Quantification of scaling exponents and crossover phen time series

Chaos

5, 82-87

DOI: 10.1063/1.166141

Citation Report

#	Article	IF	Citations
1	Identification of dynamical noise levels in chaotic systems and application to cardiac dynamics analysis. , 0, , .		3
2	Statistical and linguistic features of noncoding DNA: A heterogeneous Â«Complex systemÂ». Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 1339-1356.	0.4	10
3	Heart rate variability. Journal of Electrocardiology, 1995, 28, 245-251.	0.9	13
4	Fractal mechanisms and heart rate dynamics. Journal of Electrocardiology, 1995, 28, 59-65.	0.9	362
5	Power laws and universality. Nature, 1995, 378, 554-554.	27.8	83
6	STATISTICAL AND LINGUISTIC FEATURES OF DNA SEQUENCES. Fractals, 1995, 03, 269-284.	3.7	30
7	Dynamical disease: Identification, temporal aspects and treatment strategies of human illness. Chaos, 1995, 5, 1-7.	2.5	166
8	Non-linear dynamics for clinicians: chaos theory, fractals, and complexity at the bedside. Lancet, The, 1996, 347, 1312-1314.	13.7	730
9	Abnormalities in Beat to Beat Complexity of Heart Rate Dynamics in Patients With a Previous Myocardial Infarction11This study was supported by grants from the Finnish Foundation for Cardiovascular Research and the Medical Council of the Academy of Finland, Helsinki, Finland.. Journal of the American College of Cardiology, 1996, 28, 1005-1011.	2.8	113
10	Multiscaled randomness: A possible source of 1/fnoise in biology. Physical Review E, 1996, 54, 2154-2157.	2.1	140
11	Nonstationarity and 1/f noise characteristics in heart rate. , 0, , .		2
12	Fractal scaling properties in nonstationary heartbeat time series. AIP Conference Proceedings, 1996, , .	0.4	4
13	Age-related alterations in the fractal scaling of cardiac interbeat interval dynamics. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1996, 271, R1078-R1084.	1.8	397
14	Bifurcation structure of an optical ring cavity. Physica Scripta, 1996, T67, 167-175.	2.5	2
15	Fractal character of the electrocardiogram: Distinguishing heart-failure and normal patients. Annals of Biomedical Engineering, 1996, 24, 269-293.	2.5	114
16	Scaling and universality in animate and inanimate systems. Physica A: Statistical Mechanics and Its Applications, 1996, 231, 20-48.	2.6	42
17	Scaling behaviour of heartbeat intervals obtained by wavelet-based time-series analysis. Nature, 1996, 383, 323-327.	27.8	477
18	Deviations from uniform power law scaling in nonstationary time series. Physical Review E, 1997, 55, 845-849.	2.1	92

#	Article	IF	Citations
19	Autocorrelations ofR-Rdistributions as a measure of heart variability. Physical Review E, 1997, 56, 3725-3727.	2.1	11
20	Correlation dimension of electroglottographic data from healthy and pathologic subjects. Journal of the Acoustical Society of America, 1997, 102, 2371-2379.	1.1	39
21	Fractal Variability Versus Pathologic Periodicity: Complexity Loss and Stereotypy in Disease. Perspectives in Biology and Medicine, 1997, 40, 543-561.	0.5	209
22	Altered fractal dynamics of gait: reduced stride-interval correlations with aging and Huntingtonâ€™s disease. Journal of Applied Physiology, 1997, 82, 262-269.	2.5	729
23	Decrease of cardiac chaos in congestive heart failure. Nature, 1997, 389, 492-495.	27.8	295
24	Dynamic Analysis of Heart Rate May Predict Subsequent Ventricular Tachycardia After Myocardial Infarction. American Journal of Cardiology, 1997, 80, 779-783.	1.6	176
25	New approach to studies on ECG dynamics: Extraction and analyses of QRS complex irregularity time series. Medical and Biological Engineering and Computing, 1997, 35, 467-473.	2.8	38
26	Multiple-time scales analysis of physiological time series under neural control. Physica A: Statistical Mechanics and Its Applications, 1998, 249, 491-500.	2.6	61
27	Scaling and universality in heart rate variability distributions. Physica A: Statistical Mechanics and Its Applications, 1998, 249, 587-593.	2.6	82
28	Heart Rate Dynamics in Patients With Stable Angina Pectoris and Utility of Fractal and Complexity Measures. American Journal of Cardiology, 1998, 81, 27-31.	1.6	143
29	Is the heart preadapted to hypoxia? Evidence from fractal dynamics of heartbeat interval fluctuations at high altitude (5,050 m). Integrative Psychological and Behavioral Science, 1998, 33, 9-40.	0.3	14
30	Stability of heartbeat interval distributions in chronic high altitude hypoxia. Integrative Psychological and Behavioral Science, 1998, 33, 344-362.	0.3	21
31	Predictability and nonlinearity of the heart rhythm. Chaos, Solitons and Fractals, 1998, 9, 507-515.	5.1	14
32	A comparison of estimators for noise. Physica D: Nonlinear Phenomena, 1998, 114, 108-122.	2.8	109
33	Dynamical Analysis of Heartbeat Interval Time Series After Cardiac Transplantation. , 1998, , 139-151.		2
34	Low-Dimensional Chaos in Large Conductance Ca-Activated K-Channel Gating Kinetics. , 1998, , 152-164.		0
35	Stochastic feedback and the regulation of biological rhythms. Europhysics Letters, 1998, 43, 363-368.	2.0	223
36	Receiver-Operating-Characteristic Analysis Reveals Superiority of Scale-Dependent Wavelet and Spectral Measures for Assessing Cardiac Dysfunction. Physical Review Letters, 1998, 81, 5688-5691.	7.8	38

#	Article	IF	Citations
37	Multiresolution Wavelet Analysis of Heartbeat Intervals Discriminates Healthy Patients from Those with Cardiac Pathology. Physical Review Letters, 1998, 80, 1544-1547.	7.8	185
38	Scale-Independent Measures and Pathologic Cardiac Dynamics. Physical Review Letters, 1998, 81, 2388-2391.	7.8	126
39	Detection of anomalous diffusion using confidence intervals of the scaling exponent with application to preterm neonatal heart rate variability. Physical Review E, 1998, 58, 6440-6448.	2.1	9
40	Discrimination of the Healthy and Sick Cardiac Autonomic Nervous System by a New Wavelet Analysis of Heartbeat Intervals. Fractals, 1998, 06, 197-203.	3.7	32
41	Multiresolution wavelet analysis of heart rate variability for heart-failure and heart-transplant patients. , 0, , .		7
42	Scale-invariant correlations in the biological and social sciences. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1373-1388.	0.6	10
43	Heart Rate Variability in Intensive Care. Journal of Intensive Care Medicine, 1998, 13, 252-265.	2.8	24
44	Fluctuations and their correlations in econophysics. , 1999, , 197-210.		2
45	Nonstationarity and 1/f noise characteristics in heart rate. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1999, 276, R1-R9.	1.8	19
46	Maturation of gait dynamics: stride-to-stride variability and its temporal organization in children. Journal of Applied Physiology, 1999, 86, 1040-1047.	2.5	323
47	Cardiac Interbeat Interval Dynamics From Childhood to Senescence. Circulation, 1999, 100, 393-399.	1.6	372
48	DISCRIMINATION BETWEEN HEALTHY AND SICK CARDIAC AUTONOMIC NERVOUS SYSTEM BY DETRENDED HEART RATE VARIABILITY ANALYSIS. Fractals, 1999, 07, 85-91.	3.7	28
49	Altered Complexity and Correlation Properties of R-R Interval Dynamics Before the Spontaneous Onset of Paroxysmal Atrial Fibrillation. Circulation, 1999, 100, 2079-2084.	1.6	299
50	Nonlinear properties of cardiac rhythm abnormalities. Physical Review E, 1999, 59, 3312-3319.	2.1	33
51	Global and local dimensions of vocal dynamics. Journal of the Acoustical Society of America, 1999, 105, 432-443.	1.1	32
52	Application of statistical physics to heartbeat diagnosis. Physica A: Statistical Mechanics and Its Applications, 1999, 274, 99-110.	2.6	102
53	The Eve effect in the Penna model of biological ageing. Physica A: Statistical Mechanics and Its Applications, 1999, 273, 169-181.	2.6	9
54	Scaling features of noncoding DNA. Physica A: Statistical Mechanics and Its Applications, 1999, 273, 1-18.	2.6	104

#	Article	IF	Citations
55	Heart rate variability of preterm neonates quantified by energy entropy. Australian Journal of Cancer Nursing, 1999, 1, 103-111.	1.6	1
56	Statistical physics and physiology: Monofractal and multifractal approaches. Physica A: Statistical Mechanics and Its Applications, 1999, 270, 309-324.	2.6	323
57	Dynamics of the information entropy in random processes. Physica A: Statistical Mechanics and Its Applications, 1999, 273, 416-438.	2.6	15
58	Scaling in nature: from DNA through heartbeats to weather. Physica A: Statistical Mechanics and Its Applications, 1999, 273, 46-69.	2.6	79
59	Multifractality in human heartbeat dynamics. Nature, 1999, 399, 461-465.	27.8	1,474
60	Significance of the Accuracy of RR Interval Detection for the Analysis of New Dynamic Measures of Heart Rate Variability. Annals of Noninvasive Electrocardiology, 1999, 4, 10-17.	1.1	20
61	Heart rate dynamics before spontaneous onset of ventricular fibrillation in patients with healed myocardial infarcts. American Journal of Cardiology, 1999, 83, 880-884.	1.6	155
62	Fractal analysis of heart rate dynamics as a predictor of mortality in patients with depressed left ventricular function after acute myocardial infarction. American Journal of Cardiology, 1999, 83, 836-839.	1.6	259
63	Sleep-wake differences in scaling behavior of the human heartbeat: Analysis of terrestrial and long-term space flight data. Europhysics Letters, 1999, 48, 594-600.	2.0	223
64	Statistical properties of the volatility of price fluctuations. Physical Review E, 1999, 60, 1390-1400.	2.1	631
65	Testing procedures for non-stationarity and non-linearity in physiological signals. Mathematical Biosciences, 1999, 157, 303-320.	1.9	40
66	Long-range Dependence trough Gamma-mixed Ornstein-Uhlenbeck Process. Electronic Journal of Probability, 1999, 4, 1.	1.0	97
67	Linear and nonlinear analysis of hemodynamic signals during sepsis and septic shock. Critical Care Medicine, 2000, 28, 2051-2057.	0.9	67
68	VISIT SCCMâ€™S UPDATED WEB SITE. Critical Care Medicine, 2000, 28, 2057.	0.9	0
69	A new method to determine a fractal dimension of non-stationary biological time-serial data. Computers in Biology and Medicine, 2000, 30, 237-245.	7.0	15
70	Diagnostic of cardio-vascular disease with help of largest Lyapunov exponent of RR-sequences. Chaos, Solitons and Fractals, 2000, 11, 807-814.	5.1	15
71	The dynamics and geometry of solidâ€“liquid reaction interface. Physica A: Statistical Mechanics and Its Applications, 2000, 285, 156-165.	2.6	16
72	Exotic statistical physics: Applications to biology, medicine, and economics. Physica A: Statistical Mechanics and Its Applications, 2000, 285, 1-17.	2.6	48

#	Article	IF	Citations
73	Nonlinear Analysis of Heart Rate Variability: Fractal and Complexity Measures of Heart Rate Behavior. Annals of Noninvasive Electrocardiology, 2000, 5, 179-187.	1.1	10
74	Fluctuations and Fractal Noise in Biological Membranes. Journal of Membrane Biology, 2000, 177, 177-185.	2.1	35
75	Analysis of nonlinear heart rate dynamics in cardiac arrhythmias. Herzschrittmachertherapie Und Elektrophysiologie, 2000, 11, 131-138.	0.8	4
76	Scale invariance in biophysics. AIP Conference Proceedings, 2000, , .	0.4	0
77	COMPARISON OF RECENT METHODS OF ANALYZING HEART RATE VARIABILITY. Fractals, 2000, 08, 315-322.	3.7	15
78	Fractal Correlation Properties of R-R Interval Dynamics and Mortality in Patients With Depressed Left Ventricular Function After an Acute Myocardial Infarction. Circulation, 2000, 101, 47-53.	1.6	641
79	Time-invariant long-range correlations in electroencephalogram dynamics. International Journal of Systems Science, 2000, 31, 819-825.	5.5	18
80	Chaos Theory, Heart Rate Variability, and Arrhythmic Mortality. Circulation, 2000, 101, 8-10.	1.6	167
81	Decomposition of heartbeat time series: scaling analysis of the sign sequence. , 0, , .		9
82	Complexity of heart rate, blood pressure and respiration disclosed by pattern fractal analysis. , 0, , .		3
83	Stochastic dynamics of time correlation in complex systems with discrete time. Physical Review E, 2000, 62, 6178-6194.	2.1	55
84	Scale-invariant fluctuations at different levels of organization in developing heart cell networks. Physical Review E, 2000, 61, R2216-R2219.	2.1	22
85	Analysis of heart rate variability of an anencephalic fetus using a new method to determine a fractal dimension of non-stationary time-serial data. Frontiers of Medical and Biological Engineering: the International Journal of the Japan Society of Medical Electronics and Biological Engineering, 2000, 10, 337-344.	0.2	1
86	Detrended fluctuation analysis of rainfall and streamflow time series. Journal of Geophysical Research, 2000, 105, 29165-29172.	3.3	144
87	Establishing the relation between detrended fluctuation analysis and power spectral density analysis for stochastic processes. Physical Review E, 2000, 62, 6103-6110.	2.1	213
88	PhysioNet: a research resource for studies of complex physiologic and biomedical signals. , 0, , .		32
89	Correlated and Uncorrelated Regions in Heart-Rate Fluctuations during Sleep. Physical Review Letters, 2000, 85, 3736-3739.	7.8	495
91	Fractal Analysis of Human Walking Rhythm. , 2000, , 253-264.		6

#	Article	IF	Citations
92	Modeling Heart Rate Variability in Healthy Humans: A Turbulence Analogy. Physical Review Letters, 2001, 86, 1650-1653.	7.8	117
93	Effect of trends on detrended fluctuation analysis. Physical Review E, 2001, 64, 011114.	2.1	1,070
94	Prediction of sudden cardiac death by fractal analysis of heart rate variability in elderly subjects. Journal of the American College of Cardiology, 2001, 37, 1395-1402.	2.8	212
95	Depth-dependent time-clustering behaviour in seismicity of southern California. Geophysical Research Letters, 2001, 28, 4323-4326.	4.0	46
96	Alterations in irregular and fractal heart rate behavior in growth restricted fetuses. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2001, 94, 51-58.	1.1	26
97	Heart rate variability in ischemic heart disease. Autonomic Neuroscience: Basic and Clinical, 2001, 90, 95-101.	2.8	71
98	Medical Data Analysis. Lecture Notes in Computer Science, 2001, , .	1.3	9
99	Effects of exercise and passive head-up tilt on fractal and complexity properties of heart rate dynamics. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H1081-H1087.	3.2	158
100	Determinants and interindividual variation of R-R interval dynamics in healthy middle-aged subjects. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H1400-H1406.	3.2	60
101	Long-Range Temporal Correlations and Scaling Behavior in Human Brain Oscillations. Journal of Neuroscience, 2001, 21, 1370-1377.	3.6	937
102	Scale-specific and scale-independent measures of heart rate variability as risk indicators. Europhysics Letters, 2001, 53, 709-715.	2.0	30
103	Self-similarity index estimation via wavelets for locally self-similar processes. Journal of Statistical Planning and Inference, 2001, 99, 91-110.	0.6	18
104	Detecting long-range correlations with detrended fluctuation analysis. Physica A: Statistical Mechanics and Its Applications, 2001, 295, 441-454.	2.6	1,164
105	Long-range power-law correlations in stock returns. Physica A: Statistical Mechanics and Its Applications, 2001, 299, 521-527.	2.6	48
106	A model for the growth dynamics of economic organizations. Physica A: Statistical Mechanics and Its Applications, 2001, 299, 127-136.	2.6	49
107	Scaling features of texts, images and time series. Physica A: Statistical Mechanics and Its Applications, 2001, 300, 310-324.	2.6	17
108	Time evolution of stochastic processes with correlations in the variance: stability in power-law tails of distributions. Physica A: Statistical Mechanics and Its Applications, 2001, 300, 300-309.	2.6	26
109	Temporal age-related changes in spectral, fractal and complexity characteristics of heart rate variability. Clinical Physiology, 2001, 21, 273-281.	0.7	24

#	Article	IF	Citations
110	Effects of pharmacological adrenergic and vagal modulation on fractal heart rate dynamics. Clinical Physiology, 2001, 21, 515-523.	0.7	109
111	Reversal of Deteriorated Fractal Behavior of Heart Rate Variability by Beta-Blocker Therapy in Patients with Advanced Congestive Heart Failure. Journal of Cardiovascular Electrophysiology, 2001, 12, 26-32.	1.7	68
112	Broken Fractals: Where's the Break?. Journal of Cardiovascular Electrophysiology, 2001, 12, 33-35.	1.7	7
113	The Effect of Helicity Dissipation on the Critical State of an Avalanche Model for Solar Flares. Solar Physics, 2001, 199, 345-369.	2.5	4
114	Application of statistical physics methods and conceptsto the study of science & technology systems. Scientometrics, 2001, 51, 9-36.	3.0	18
115	Differences in Heart Rate Dynamics Before the Spontaneous Onset of Long and Short Episodes of Paroxysmal Atrial Fibrillation. Annals of Noninvasive Electrocardiology, 2001, 6, 134-142.	1.1	6
116	Heart Rate Variability in Patients with Congenital Long QT Syndrome. Annals of Noninvasive Electrocardiology, 2001, 6, 298-304.	1.1	14
117	Long-range correlations in human standing. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 283, 124-128.	2.1	116
118	Scaling analysis of trends using DFA. Physica A: Statistical Mechanics and Its Applications, 2001, 302, 234-243.	2.6	22
119	Fractal analysis and time- and frequency-domain measures of heart rate variability as predictors of mortality in patients with heart failure. American Journal of Cardiology, 2001, 87, 178-182.	1.6	220
120	Comparability of nonlinear measures of heart rate variability between long- and short-term electrocardiographic recordings. American Journal of Cardiology, 2001, 87, 905-908.	1.6	31
121	Heart rate dynamics before the spontaneous onset of ventricular tachyarrhythmias in chagasâ€™ heart disease. American Journal of Cardiology, 2001, 87, 1123-1125.	1.6	19
122	Is abnormal heart rate variability a specific feature of congestive heart failure?. American Journal of Cardiology, 2001, 87, 1211-1213.	1.6	13
123	Fractal correlation properties of heart rate dynamics and adverse events in patients with implantable cardioverter-defibrillators. American Journal of Cardiology, 2001, 88, 17-22.	1.6	33
124	PhysioNet: a Web-based resource for the study of physiologic signals. IEEE Engineering in Medicine and Biology Magazine, 2001, 20, 70-75.	0.8	319
125	QUARTER POWER SCALING IN DYNAMICS: EXPERIMENTAL EVIDENCE FROM CELL BIOLOGY AND COGNITIVE PSYCHOLOGY. Fluctuation and Noise Letters, 2001, 01, L111-L116.	1.5	5
126	A PROBABILITY ANALYSIS OF HEART RATE VARIABILITY FOR HEART TRANSPLANT AND MYOCARDIAL INFARCTION PATIENTS AND FOR HEALTHY SUBJECTS. Fractals, 2001, 09, 273-285.	3.7	0
127	SCALING IN COGNITION. Fractals, 2001, 09, 379-391.	3.7	5

#	Article	IF	Citations
128	ASYMMETRIC ANOMALOUS DIFFUSION: AN EFFICIENT WAY TO DETECT MEMORY IN TIME SERIES. Fractals, 2001, 09, 439-449.	3.7	102
129	Working on the Noltisalis database: measurement of nonlinear properties in heart rate variability signals. , 0, , .		10
130	Long-range temporal anti-correlations in paddlefish electroreceptors. Europhysics Letters, 2001, 56, 454-460.	2.0	67
131	Sudden cardiac death: role of heart rate variability to identify patients at risk. Cardiovascular Research, 2001, 50, 210-217.	3.8	100
132	FRACTIONAL BROWNIAN MOTION: THEORY AND APPLICATION TO DNA WALK. , 2001, , .		0
133	From 1/f noise to multifractal cascades in heartbeat dynamics. Chaos, 2001, 11, 641-652.	2.5	431
134	Magnitude and Sign Correlations in Heartbeat Fluctuations. Physical Review Letters, 2001, 86, 1900-1903.	7.8	361
135	Behavioral-Independent Features of Complex Heartbeat Dynamics. Physical Review Letters, 2001, 86, 6026-6029.	7.8	305
136	Scale Invariance in the Nonstationarity of Human Heart Rate. Physical Review Letters, 2001, 87, 168105.	7.8	222
137	Quantification of heart rate variability by discrete nonstationary non-Markov stochastic processes. Physical Review E, 2002, 65, 046107.	2.1	48
138	Correlation differences in heartbeat fluctuations during rest and exercise. Physical Review E, 2002, 66, 062902.	2.1	113
139	Scaling properties of fluctuations in the human electroencephalogram. Physical Review E, 2002, 66, 021901.	2.1	124
140	Characterization of sleep stages by correlations in the magnitude and sign of heartbeat increments. Physical Review E, 2002, 65, 051908.	2.1	161
141	Analysis of long-range correlations in geoelectrical signals measured in southern Italy. , 0, , .		0
142	Heart rate dynamics in refractory and well controlled temporal lobe epilepsy. Journal of Neurology, Neurosurgery and Psychiatry, 2002, 72, 26-30.	1.9	136
143	FLUCTUATION ANALYSIS OF THE HOURLY TIME VARIABILITY IN OBSERVATIONAL GEOELECTRICAL SIGNALS. Fluctuation and Noise Letters, 2002, 02, L235-L242.	1.5	6
144	DETRENDED FLUCTUATION ANALYSIS OF CHROMATIN TEXTURE FOR DIAGNOSIS IN BREAST CYTOLOGY. Fractals, 2002, 10, 19-25.	3.7	4
145	Relationship between detrended fluctuation analysis and spectral analysis of heart-rate variability. Physiological Measurement, 2002, 23, 385-401.	2.1	69

#	Article	IF	Citations
146	Central and autonomic regulation of fetal heart rate: nonlinear analysis after vibroacoustic stimulation. , 0, , .		1
147	Differences in the activation patterns between sustained and self-terminating episodes of human ventricular fibrillation. Annals of Medicine, 2002, 34, 130-135.	3.8	28
148	Hardware design for the computation of heart rate variability. Journal of Medical Engineering and Technology, 2002, 26, 49-62.	1.4	8
149	Correlation properties of tidal volume and end-tidal O₂ and CO₂ concentrations in healthy infants. Journal of Applied Physiology, 2002, 92, 1817-1827.	2.5	49
150	Heart rate variability in critical illness and critical care. Current Opinion in Critical Care, 2002, 8, 311-315.	3.2	139
151	Nonlinear advanced methods for biological signal analysis. , 0, , .		1
152	Sexual dimorphism in the complexity of cardiac pacemaker activity. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H1695-H1702.	3.2	15
153	CinC challenge 2002 undertaken by non-stationary and fractal techniques. , 0, , .		1
154	Statistical Analysis of Timing Errors. Brain and Cognition, 2002, 48, 98-106.	1.8	71
155	Fractal Scaling of Heartrate Dynamics in Health and Disease. , 2002, , 181-193.		7
156	Information States in Cardiac Rhythm. , 2002, , 195-205.		0
157	Fractal characterization of complexity in temporal physiological signals. Physiological Measurement, 2002, 23, R1-R38.	2.1	505
158	Dynamics of Stability: The Physiologic Basis of Functional Health and Frailty. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2002, 57, B115-B125.	3.6	474
159	Multifractal analysis of the day and night characteristics of heart rate variability. , 0, , .		6
160	Complex patterns of abnormal heartbeats. Physical Review E, 2002, 66, 031901.	2.1	33
161	Fractal dynamics in physiology: Alterations with disease and aging. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2466-2472.	7.1	1,731
162	What is physiologic complexity and how does it change with aging and disease?. Neurobiology of Aging, 2002, 23, 23-26.	3.1	729
163	Scaling vs. nonscaling methods of assessing autonomic tone in streptozotocin-induced diabetic rats. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H1142-H1149.	3.2	4

#	Article	IF	Citations
164	Evidence for fractal correlation properties in variations of peripheral arterial tone during REM sleep. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H434-H439.	3.2	26
165	State and chemical drive modulate respiratory variability. Journal of Applied Physiology, 2002, 93, 685-696.	2.5	23
166	Behavioral avoidance dynamics in the presence of a virtual spider. IEEE Transactions on Information Technology in Biomedicine, 2002, 6, 235-243.	3.2	42
167	A phenomenology model of normal sinus rhythm in healthy humans. IEEE Transactions on Biomedical Engineering, 2002, 49, 97-109.	4.2	4
168	Relation of heart rate dynamics to the occurrence of myocardial ischemia after coronary artery bypass grafting. American Journal of Cardiology, 2002, 89, 1176-1181.	1.6	34
169	Fractal analysis of heart rate variability and mortality after an acute myocardial infarction. American Journal of Cardiology, 2002, 90, 347-352.	1.6	217
170	Multiscale spike train variability in primary electrosensory afferents. Journal of Physiology (Paris), 2002, 96, 507-516.	2.1	13
171	Comparison of heart rate variability analysis methods in patients with Parkinson's disease. Medical and Biological Engineering and Computing, 2002, 40, 408-414.	2.8	37
172	Heart rate variability and cardiovascular mortality. Current Atherosclerosis Reports, 2002, 4, 120-127.	4.8	93
173	Improved estimators for fractional Brownian motion via the expectationâ€“maximization algorithm. Medical Engineering and Physics, 2002, 24, 77-83.	1.7	5
174	Increased Intermittency and Decreased Nonstationarity of Heart Rates During the Daytime in Patients with Neurocardiogenic Syncope. Journal of Cardiovascular Electrophysiology, 2002, 13, 788-793.	1.7	8
175	The quantified histograms: detection of the hidden unsteadiness. Physica A: Statistical Mechanics and Its Applications, 2002, 309, 214-230.	2.6	6
176	Description of complex time series by multipoles. Physica A: Statistical Mechanics and Its Applications, 2002, 311, 260-274.	2.6	9
177	Stochastic processes with power-law stability and a crossover in power-law correlations. Physica A: Statistical Mechanics and Its Applications, 2002, 316, 153-159.	2.6	15
178	Deviations from uniform power-law scaling due to exposure to high altitude. Physica A: Statistical Mechanics and Its Applications, 2002, 316, 397-402.	2.6	0
179	Multiscality in the dynamics of coupled chaotic systems. Physica A: Statistical Mechanics and Its Applications, 2002, 316, 233-249.	2.6	30
180	Nonlinearities in the exchange rates returns and volatility. Physica A: Statistical Mechanics and Its Applications, 2002, 316, 469-482.	2.6	9
181	Multifractal detrended fluctuation analysis of nonstationary time series. Physica A: Statistical Mechanics and Its Applications, 2002, 316, 87-114.	2.6	2,846

#	Article	IF	Citations
182	Physiological basis of fractal complexity properties of heart rate variability in man. Journal of Physiology, 2002, 542, 619-629.	2.9	78
183	Effects of Carvedilol on Heart Rate Dynamics in Patients with Congestive Heart Failure. Annals of Noninvasive Electrocardiology, 2002, 7, 133-138.	1.1	24
184	Influence of Atropine on Fractal and Complexity Measures of Heart Rate Variability. Annals of Noninvasive Electrocardiology, 2002, 7, 326-331.	1.1	37
185	Detrended fluctuation analysis of EEG in sleep apnea using MIT/BIH polysomnography data. Computers in Biology and Medicine, 2002, 32, 37-47.	7.0	124
186	Investigation on gait time series by means of factorial moments. Physica A: Statistical Mechanics and Its Applications, 2002, 312, 23-34.	2.6	13
187	Heart rate variability analysis using correlation dimension and detrended fluctuation analysis. IRBM News, 2002, 23, 333-339.	0.1	77
188	Does preprocessing change nonlinear measures of heart rate variability?. Computers in Biology and Medicine, 2002, 32, 481-494.	7.0	11
189	Clinical implications of present physiological understanding of HRV components. Journal of Interventional Cardiac Electrophysiology, 2002, 6, 245-249.	1.0	170
190	Clinical applicability of heart rate variability analysis by methods based on nonlinear dynamics. Journal of Interventional Cardiac Electrophysiology, 2002, 6, 250-255.	1.0	76
191	Quantifying Fractal Dynamics of Human Respiration: Age and Gender Effects. Annals of Biomedical Engineering, 2002, 30, 683-692.	2.5	247
192	Effect of nonstationarities on detrended fluctuation analysis. Physical Review E, 2002, 65, 041107.	2.1	792
193	Multi-and monofractal indices of short-term heart rate variability. Medical and Biological Engineering and Computing, 2003, 41, 543-549.	2.8	18
194	Complexity analysis of the temperature curve: new information from body temperature. European Journal of Applied Physiology, 2003, 89, 230-237.	2.5	43
195	Self-affine fractal variability of human heartbeat interval dynamics in health and disease. European Journal of Applied Physiology, 2003, 90, 305-316.	2.5	87
196	Long-range persistence of acid deposition. Atmospheric Environment, 2003, 37, 2605-2613.	4.1	25
197	Comparison of detrended fluctuation analysis and spectral analysis for heart rate variability in sleep and sleep apnea. IEEE Transactions on Biomedical Engineering, 2003, 50, 1143-1151.	4.2	400
198	Measurement of heart rate variability by methods based on nonlinear dynamics. Journal of Electrocardiology, 2003, 36, 95-99.	0.9	122
199	PhysioNet: an NIH research resource for complex signals. Journal of Electrocardiology, 2003, 36, 139-144.	0.9	33

#	Article	IF	Citations
200	Exploring the nonlinear dynamics of the brain. Journal of Physiology (Paris), 2003, 97, 629-639.	2.1	19
201	A stochastic model of river discharge fluctuations. Physica A: Statistical Mechanics and Its Applications, 2003, 330, 283-290.	2.6	49
202	Breathing during REM and non-REM sleep: correlated versus uncorrelated behaviour. Physica A: Statistical Mechanics and Its Applications, 2003, 319, 447-457.	2.6	58
203	Stratification of the phase clouds and statistical effects of the non-Markovity in chaotic time series of human gait for healthy people and Parkinson patients. Physica A: Statistical Mechanics and Its Applications, 2003, 319, 432-446.	2.6	18
204	Generating 1/fÎ² noise with a low-dimensional attractor characteristic: its significance for atomic vibrations in proteins and cognitive data. Physica A: Statistical Mechanics and Its Applications, 2003, 320, 449-460.	2.6	6
205	Time series analysis of leg movements during freezing of gait in Parkinson's disease: akinesia, rhyme or reason?. Physica A: Statistical Mechanics and Its Applications, 2003, 321, 565-570.	2.6	83
206	Magnitude and sign scaling in power-law correlated time series. Physica A: Statistical Mechanics and Its Applications, 2003, 323, 19-41.	2.6	160
207	Compression and diffusion: a joint approach to detect complexity. Chaos, Solitons and Fractals, 2003, 15, 517-535.	5.1	58
208	Investigating the time-clustering properties in seismicity of Umbriaâ€“Marche region (central Italy). Chaos, Solitons and Fractals, 2003, 18, 203-217.	5.1	16
209	Effect of cardiac vagal outflow on complexity and fractal correlation properties of heart rate dynamics. Autonomic and Autacoid Pharmacology, 2003, 23, 173-179.	0.5	71
210	Short-term correlation properties of R-R interval dynamics at different exercise intensity levels. Clinical Physiology and Functional Imaging, 2003, 23, 215-223.	1.2	95
211	Prognostic value of nonlinear heart rate dynamics in hemodialysis patients with coronary artery disease. Kidney International, 2003, 64, 641-648.	5.2	27
212	Temporal Complexity of Repolarization and Mortality in Patients with Implantable Cardioverter Defibrillators. PACE - Pacing and Clinical Electrophysiology, 2003, 26, 1931-1936.	1.2	19
213	Nonlinear properties of the atomic vibrations in protein backbones. Physica A: Statistical Mechanics and Its Applications, 2003, 320, 461-474.	2.6	8
214	Effect of Endurance Exercise on Autonomic Control of Heart Rate. Sports Medicine, 2003, 33, 33-46.	6.5	362
215	Toward chronocardiologic and chronomic insights: dynamics of heart rate associated with head-up tilting. Biomedicine and Pharmacotherapy, 2003, 57, 110-115.	5.6	6
216	Spatial variability of the time-correlated behaviour in Italian seismicity. Earth and Planetary Science Letters, 2003, 212, 279-290.	4.4	43
217	Internet-based, GPRS, long-term ECG monitoring and non-linear heart-rate analysis for cardiovascular telemedicine management. , 2003, , .		12

#	Article	IF	Citations
218	Impaired autonomic vascular control: a non linear dynamic analysis. , 2003, , .		0
219	Asymmetrical singularities in real-world signals. Physical Review E, 2003, 68, 065204.	2.1	46
220	Dynamics of temporal correlation in daily Internet traffic. , 0, , .		9
221	Scaling properties and symmetrical patterns in the epidemiology of rotavirus infection. Philosophical Transactions of the Royal Society B: Biological Sciences, 2003, 358, 1625-1641.	4.0	30
222	HERZFREQUENZVARIABILITÃ„T IM SCHLAF UNTERSUCHT MIT DER TRENDBEREINIGENDEN FLUKTUATIONS-ANALYSE UND DER SPEKTRALANALYSE. Biomedizinische Technik, 2003, 48, 156-157.	0.8	2
223	Simple model of the aging effect in heart interbeat time series. Physical Review E, 2003, 67, 052901.	2.1	37
224	Robustness and perturbation in the modeled cascade heart rate variability. Physical Review E, 2003, 67, 031914.	2.1	10
225	A Methodological Note on Nonlinear Time Series Analysis: Is the Open-and Closed-Loop Model of Collins and De Luca (1993) a Statistical Artifact?. Journal of Motor Behavior, 2003, 35, 86-96.	0.9	88
226	Interpretation of heart rate variability via detrended fluctuation analysis and Î±Î² filter. Chaos, 2003, 13, 467-475.	2.5	88
227	Stochastic model for heart-rate fluctuations. Physical Review E, 2003, 67, 061904.	2.1	27
228	MODEL THE FRACTAL COMPONENT IN HEART RATE VARIABILITY AS A DYADIC BOUNDED CASCADE. Fractals, 2003, 11, 63-76.	3.7	2
229	QUANTITATIVE DYNAMICS IN GEOPHYSICAL PARAMETERS SIMULTANEOUSLY RECORDED IN THE SOOS NATURE PARK (CZECH REPUBLIC). Fluctuation and Noise Letters, 2003, 03, L73-L82.	1.5	2
230	FRACTAL CHANGES IN HEART RATE DYNAMICS WITH AGING AND HEART FAILURE. Fluctuation and Noise Letters, 2003, 03, L83-L89.	1.5	14
231	DISCRIMINATION BY MULTIFRACTAL SPECTRUM ESTIMATION OF HUMAN HEARTBEAT INTERVAL DYNAMICS. Fractals, 2003, 11, 195-204.	3.7	14
232	ANALYSIS OF CORRELATION PROPERTIES IN GEOELECTRICAL DATA. Fractals, 2003, 11, 27-38.	3.7	1
233	Eye-Tracking in Immersive Environments: A General Methodology to Analyze Affordance-Based Interactions from Oculomotor Dynamics. Cyberpsychology, Behavior and Social Networking, 2003, 6, 519-526.	2.2	16
234	Effects of aerobic training on heart rate dynamics in sedentary subjects. Journal of Applied Physiology, 2003, 95, 364-372.	2.5	185
235	Similarities between communication dynamics in the Internet and the autonomic nervous system. Europhysics Letters, 2003, 62, 189-195.	2.0	27

#	Article	IF	Citations
236	Modeling transient correlations in heartbeat dynamics during sleep. Europhysics Letters, 2003, 62, 147-153.	2.0	61
237	Statistical detection of the hidden distortions in diffusive spectra. Journal Physics D: Applied Physics, 2003, 36, 1044-1052.	2.8	5
238	Heart rate variability and recurrence of atrial fibrillation after electrical cardioversion. Annals of Medicine, 2003, 35, 36-42.	3.8	46
239	A direct analytical demonstration of the essential equivalence of detrended fluctuation analysis and spectral analysis of RR interval variability. Physiological Measurement, 2003, 24, N1-N7.	2.1	30
240	Novel method to quantify loss of heart rate variability in pediatric multiple organ failure*. Critical Care Medicine, 2003, 31, 2059-2067.	0.9	48
241	Linear and nonlinear analysis of heart rate variability during propofol anesthesia for short-duration procedures in children. Pediatric Critical Care Medicine, 2003, 4, 308-314.	0.5	26
242	The processing of beat-to-beat time intervals by multipoles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 199-202.	0.4	0
243	Ch. 3. Locally self-similar processes and their wavelet analysis. Handbook of Statistics, 2003, 21, 93-135.	0.6	14
244	Cascade heart rate variability. , 2003, , .		0
245	Frequency characteristics of long-term heart rate variability during constant-routine protocol. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2003, 285, R171-R176.	1.8	25
246	Investigating the spatial variability of the time-scaling properties in Italian seismicity. Nonlinear Processes in Geophysics, 2004, 11, 545-552.	1.3	3
247	Decreased Fractal Correlation in Diurnal Physical Activity in Chronic Fatigue Syndrome. Methods of Information in Medicine, 2004, 43, 26-29.	1.2	20
248	A unified approach of catastrophic events. Natural Hazards and Earth System Sciences, 2004, 4, 615-631.	3.6	13
249	Magnitude and sign scaling in power-law correlated geoelectrical time series measured in southern Italy. Natural Hazards and Earth System Sciences, 2004, 4, 669-677.	3.6	4
250	Physiological Understanding of HRV Components. , 0, , 40-47.		5
251	Detrended fluctuation analysis: a suitable method for studying fetal heart rate variability?. Physiological Measurement, 2004, 25, 763-774.	2.1	22
252	Double-wavelet approach to study frequency and amplitude modulation in renal autoregulation. Physical Review E, 2004, 70, 031915.	2.1	46
253	Heuristic segmentation of a nonstationary time series. Physical Review E, 2004, 69, 021108.	2.1	47

#	Article	IF	Citations
254	Nonuniversal atmospheric persistence: Different scaling of daily minimum and maximum temperatures. Physical Review E, 2004, 69, 021110.	2.1	21
255	1â^•fscaling in heart rate requires antagonistic autonomic control. Physical Review E, 2004, 70, 050901.	2.1	57
256	Separating Internal and External Dynamics of Complex Systems. Physical Review Letters, 2004, 93, 068701.	7.8	108
257	Changes in the Hurst exponent of heartbeat intervals during physical activity. Physical Review E, 2004, 70, 012903.	2.1	39
258	Analysis of clusters formed by the moving average of a long-range correlated time series. Physical Review E, 2004, 69, 026105.	2.1	142
259	Evidence of Crossover Phenomena in Wind-Speed Data. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2004, 51, 2255-2262.	0.1	72
260	Fractal rock slope dynamics anticipating a collapse. Physical Review E, 2004, 70, 036212.	2.1	9
261	Nonlinear analysis of heart rate variability signal: physiological knowledge and diagnostic indications. , 2004, 2004, 5407-10.		3
262	A short daytime test using correlation dimension for respiratory movement in OSAHS. European Respiratory Journal, 2004, 23, 885-890.	6.7	18
263	From The Cover: Emergence of complex dynamics in a simple model of signaling networks. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15551-15555.	7.1	97
264	Detrended fluctuation analysis of genome-wide copy number profiles of glioblastomas using array-based comparative genomic hybridization. Neuro-Oncology, 2004, 6, 281-289.	1.2	23
265	Identification of fetal sufferance antepartum through a multiparametric analysis and a support vector machine. , 2004, 2006, 462-5.		13
266	Putting your heart into physics. American Journal of Physics, 2004, 72, 324-332.	0.7	4
267	Endogenous circadian rhythm in an index of cardiac vulnerability independent of changes in behavior. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 18223-18227.	7.1	132
268	Nonlinear Dynamics ofRR Intervals. , 0, , 22-30.		7
269	MULTIFRACTALITY IN AN ELECTROCHEMICAL NOISE SIGNAL BY A BIOCORROSION SYSTEM. Fractals, 2004, 12, 347-354.	3.7	7
270	MULTISCALE TREND ANALYSIS. Fractals, 2004, 12, 275-292.	3.7	18
271	Stimulus-induced change in long-range temporal correlations and scaling behaviour of sensorimotor oscillations. European Journal of Neuroscience, 2004, 19, 203-218.	2.6	121

#	Article	IF	Citations
272	Can One Detect Sleep Stage Transitions for On-Line Sleep Scoring by Monitoring the Heart Rate Variability?. Sind Schlafstadienwechsel durch eine on-line Analyse der Herzschlagvariabilitat erkennbar?. Somnologie, 2004, 8, 33-41.	1.5	28
273	A phase-resolvedXMM-Newtoncampaign on the colliding-wind binary HD 152248. Monthly Notices of the Royal Astronomical Society, 2004, 350, 809-828.	4.4	49
274	Effects and Significance of Premature Beats on Fractal Correlation Properties of R-R Interval Dynamics. Annals of Noninvasive Electrocardiology, 2004, 9, 127-135.	1.1	22
275	Cardiovascular Regulation and Hippocampal Sclerosis. Epilepsia, 2004, 45, 933-939.	5.1	44
276	Complex networks. European Physical Journal B, 2004, 38, 147-162.	1.5	394
277	Detrended fluctuation analysis of the spatial variability of the temporal distribution of Southern California seismicity. Chaos, Solitons and Fractals, 2004, 21, 335-342.	5.1	27
278	Mono- and multi-fractal investigation of scaling properties in temporal patterns of seismic sequences. Chaos, Solitons and Fractals, 2004, 19, 1-15.	5.1	118
279	Investigating linear and nonlinear behaviours in time dynamics of observational seismic sequences. Chaos, Solitons and Fractals, 2004, 20, 195-203.	5.1	2
280	Influence of 50 Hz magnetic field on human heart rate variablilty: Linear and nonlinear analysis. Bioelectromagnetics, 2004, 25, 474-480.	1.6	37
281	Scale-free dynamics of global functional connectivity in the human brain. Human Brain Mapping, 2004, 22, 97-109.	3.6	222
282	Non-Markov stochastic dynamics of real epidemic process of respiratory infections. Physica A: Statistical Mechanics and Its Applications, 2004, 331, 300-318.	2.6	19
283	Variance fluctuations in nonstationary time series: a comparative study of music genres. Physica A: Statistical Mechanics and Its Applications, 2004, 336, 585-594.	2.6	54
284	Sleep and wake phase of heart beat dynamics by artificial insymmetrised patterns. Physica A: Statistical Mechanics and Its Applications, 2004, 336, 174-180.	2.6	4
285	Evaluating age-related loss of nonlinearity degree in short-term heartbeat series by optimum modeling dimension. Physica A: Statistical Mechanics and Its Applications, 2004, 337, 149-156.	2.6	9
286	Statistical analysis of the distribution of amino acids in Borrelia burgdorferi genome under different genetic codes. Physica A: Statistical Mechanics and Its Applications, 2004, 342, 288-293.	2.6	4
287	On modeling of inefficient market. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 36-40.	2.6	4
288	Multiscale aspects of cardiac control. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 685-704.	2.6	89
289	Detrended fluctuation analysis of human brain electroencephalogram. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 329, 130-135.	2.1	26

#	Article	IF	Citations
290	Does fractality in heart rate variability indicate the development of fetal neural processes?. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 331, 225-230.	2.1	11
291	Amplified imitation in percolation model of stock market. Physica A: Statistical Mechanics and Its Applications, 2004, 331, 269-278.	2.6	13
292	Stroke detection based on the scaling properties of human EEG. Physica A: Statistical Mechanics and Its Applications, 2004, 338, 246-254.	2.6	13
293	The distribution of low-variability periods in human heartbeat dynamics. Physica A: Statistical Mechanics and Its Applications, 2004, 338, 255-260.	2.6	12
294	Dynamical Shannon entropy and information Tsallis entropy in complex systems. Physica A: Statistical Mechanics and Its Applications, 2004, 341, 649-676.	2.6	20
295	Complex systems and networks: challenges and opportunities for chemical and biological engineers. Chemical Engineering Science, 2004, 59, 1653-1666.	3.8	48
296	Long-range correlation analysis of earthquake-related geochemical variations recorded in Central Italy. Chaos, Solitons and Fractals, 2004, 21, 491-500.	5.1	16
297	Cardiovascular autonomic regulation in patients with 3243A>G mitochondrial DNA mutation. Annals of Medicine, 2004, 36, 225-231.	3.8	13
298	Discrimination of VF and VT with method of detrended fluctuation analysis. , 0, , .		2
299	Distinguishing normal and abnormal heart rate variability using graphical and non-linear analyses. , 0, , .		0
300	Effect of sighs on breathing memory and dynamics in healthy infants. Journal of Applied Physiology, 2004, 97, 1830-1839.	2.5	57
301	Nonlinear variability of SYM-H over two solar cycles. Earth, Planets and Space, 2004, 56, e13-e16.	2.5	17
302	Complex systems and the technology of variability analysis. Critical Care, 2004, 8, R367-84.	5.8	335
303	Entropy in the natural time domain. Physical Review E, 2004, 70, 011106.	2.1	108
304	Stochastic heart-rate model can reveal pathologic cardiac dynamics. Physical Review E, 2004, 69, 031916.	2.1	55
305	Heart rate dynamics predict poststroke mortality. Neurology, 2004, 62, 1822-1826.	1.1	112
306	Heart rate analysis in normal subjects of various age groups. BioMedical Engineering OnLine, 2004, 3, 24.	2.7	145
307	Heart rate dynamics and their relationship to psychotic symptom severity in clozapine-treated schizophrenic subjects. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2004, 28, 371-378.	4.8	47

#	Article	IF	Citations
308	Long-range temporal correlations in epileptogenic and non-epileptogenic human hippocampus. Neuroscience, 2004, 125, 1069-1076.	2.3	75
309	Time-series pattern changes related to movement rate in synchronized human tapping. Neuroscience Letters, 2004, 370, 97-101.	2.1	21
310	Behavioral and autonomic dynamics during contextual fear conditioning in mice. Autonomic Neuroscience: Basic and Clinical, 2004, 115, 15-27.	2.8	41
311	Long-range temporal correlations in alpha and beta oscillations: effect of arousal level and testâ€“retest reliability. Clinical Neurophysiology, 2004, 115, 1896-1908.	1.5	104
312	Power law temporal auto-correlations in day-long records of human physical activity and their alteration with disease. Europhysics Letters, 2004, 66, 448-454.	2.0	14
313	Statistical analysis of heartbeat data with wavelet techniques. , 2004, 5467, 69.		0
314	1/f-type fluctuation in human visuomotor transformation. NeuroReport, 2004, 15, 1133-1136.	1.2	13
315	Neurodynamical Control of the Heart of Healthy and Dying Crustacean Animals. , 2005, , 1123.		3
316	Serial correlation in the Italian futures market. , 2005, , .		0
317	A multifractal description of wind speed records. Chaos, Solitons and Fractals, 2005, 24, 165-173.	5.1	100
318	Nonrandom Variability of Respiration During Sleep in Healthy Humans. Sleep, 2005, 28, 411-417.	1.1	58
319	Fluctuation analysis of the hourly time variability of volcano-magnetic signals recorded at Mt. Etna Volcano, Sicily (Italy). Chaos, Solitons and Fractals, 2005, 23, 1921-1929.	5.1	17
320	Effect of independent component analysis on multifractality of EEG during visual-motor task. Signal Processing, 2005, 85, 2112-2123.	3.7	23
321	Influence of the loss of time-constants repertoire in pathologic heartbeat dynamics. Physica A: Statistical Mechanics and Its Applications, 2005, 348, 304-316.	2.6	26
322	Scaling and wavelet-based analyses of the long-term heart rate variability of the Eastern Oyster. Physica A: Statistical Mechanics and Its Applications, 2005, 349, 291-301.	2.6	5
323	A new method for change-point detection developed for on-line analysis of the heart beat variability during sleep. Physica A: Statistical Mechanics and Its Applications, 2005, 349, 582-596.	2.6	59
324	Independence and symbolic independence of nonstationary heartbeat series during atrial fibrillation. Physica A: Statistical Mechanics and Its Applications, 2005, 353, 323-335.	2.6	15
325	Multifractal fluctuations in seismic interspike series. Physica A: Statistical Mechanics and Its Applications, 2005, 354, 629-640.	2.6	74

#	Article	IF	Citations
326	Changes in multifractal properties for stable angina pectoris. Physica A: Statistical Mechanics and Its Applications, 2005, 358, 505-515.	2.6	5
327	Self-organizing criticality and the method of automatic search of critical points. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 337, 279-284.	2.1	5
328	Statistical properties of trading volume depending on size. Physica A: Statistical Mechanics and Its Applications, 2005, 346, 518-528.	2.6	8
329	Heart beat dynamics during sleep and wake phases: a feedback control approach. Physica A: Statistical Mechanics and Its Applications, 2005, 348, 281-303.	2.6	5
330	Minimizing the effect of trends on detrended fluctuation analysis of long-range correlated noise. Physica A: Statistical Mechanics and Its Applications, 2005, 354, 182-198.	2.6	37
331	Age-related alterations of relaxation processes and non-Markov effects in stochastic dynamics of Râ€“R intervals variability from human ECGs. Physica A: Statistical Mechanics and Its Applications, 2005, 353, 336-352.	2.6	6
332	Statistical analysis of fluctuations in the ECG morphology. Physica A: Statistical Mechanics and Its Applications, 2005, 354, 415-431.	2.6	23
333	Correlations in the Bak-Sneppen model from detrended fluctuation analysis. Physica A: Statistical Mechanics and Its Applications, 2005, 357, 455-465.	2.6	12
334	Fourier-detrended fluctuation analysis. Physica A: Statistical Mechanics and Its Applications, 2005, 357, 447-454.	2.6	79
335	Long correlations and truncated Levy walks applied to the study Latin-American market indices. Physica A: Statistical Mechanics and Its Applications, 2005, 355, 461-474.	2.6	21
336	Nonlinear measures of heart beat intervals differ in female patients with chest pain. Nonlinear Analysis: Real World Applications, 2005, 6, 175-185.	1.7	3
337	Identification of development and autonomic nerve activity from heart rate variability in preterm infants. BioSystems, 2005, 79, 117-124.	2.0	36
338	Minimizing the effect of periodic and quasi-periodic trends in detrended fluctuation analysis. Chaos, Solitons and Fractals, 2005, 26, 777-784.	5.1	35
339	Correlation Properties and Regularity of Heart Period Time Series: Influence of Posture and Heart Disease. Annals of the New York Academy of Sciences, 2005, 1048, 422-426.	3.8	5
341	Heart rate variability analysis: a useful assessment tool for diabetes associated cardiac dysfunction in rural and remote areas. Australian Journal of Rural Health, 2005, 13, 77-82.	1.5	35
342	Sometimes Higher Heart Rate Variability Is Not Better Heart Rate Variability: Results of Graphical and Nonlinear Analyses. Journal of Cardiovascular Electrophysiology, 2005, 16, 954-959.	1.7	166
343	Exploring Sitting Posture and Discomfort Using Nonlinear Analysis Methods. IEEE Transactions on Information Technology in Biomedicine, 2005, 9, 392-401.	3.2	26
344	Decomposition of Three-Dimensional Medical Images Into Visual Patterns. IEEE Transactions on Biomedical Engineering, 2005, 52, 2115-2118.	4.2	13

#	Article	IF	Citations
345	Short- and Long-Term Joint Symbolic Dynamics of Heart Rate and Blood Pressure in Dilated Cardiomyopathy. IEEE Transactions on Biomedical Engineering, 2005, 52, 2112-2115.	4.2	54
346	Frequency and dependence of long range temporal correlations in human hippocampal energy fluctuations. Complexity, 2005, 10, 35-44.	1.6	10
347	Noisy vestibular stimulation improves autonomic and motor responsiveness in central neurodegenerative disorders. Annals of Neurology, 2005, 58, 175-181.	5.3	129
348	Fractal approaches in investigating the time dynamics of self-potential hourly variability. International Journal of Earth Sciences, 2005, 94, 285-300.	1.8	5
349	Sequences of predictive eye movements form a fractional Brownian series â€“ implications for self-organized criticality in the oculomotor system. Biological Cybernetics, 2005, 93, 43-53.	1.3	5
350	Detrended fluctuation analysis of daily temperature records: Geographic dependence over Australia. Meteorology and Atmospheric Physics, 2005, 88, 119-128.	2.0	74
351	Self-Organized Critical Behavior of Acid Deposition. Water, Air, and Soil Pollution, 2005, 162, 295-313.	2.4	2
352	Traditional and Nonlinear Heart Rate Variability Are Each Independently Associated with Mortality after Myocardial Infarction. Journal of Cardiovascular Electrophysiology, 2005, 16, 13-20.	1.7	258
353	Multifractality in local geomagnetic field at Etna volcano, Sicily (southern Italy). Natural Hazards and Earth System Sciences, 2005, 5, 555-559.	3.6	41
354	Cardiovascular autonomic and hormonal dysregulation in ischemic stroke with an emphasis on survival. International Journal of Circumpolar Health, 2005, 64, 534-535.	1.2	1
355	The deconvolution of seismic data as a fluctuation analysis. Integrated Computer-Aided Engineering, 2005, 12, 25-42.	4.6	11
356	Multifractal variability in geoelectrical signals and correlations with seismicity: a study case in southern Italy. Natural Hazards and Earth System Sciences, 2005, 5, 673-677.	3.6	27
357	Fractals Analysis of Cardiac Arrhythmias. Scientific World Journal, The, 2005, 5, 691-701.	2.1	13
358	Fractal and Complexity Measures of Heart Rate Variability. Clinical and Experimental Hypertension, 2005, 27, 149-158.	1.3	18
359	Can Electrical Vestibular Noise Be Used for the Treatment of Brain Diseases?. AIP Conference Proceedings, 2005, , .	0.4	0
360	CONSECUTIVE DIFFERENCES AS A METHOD OF SIGNAL FRACTAL ANALYSIS. Fractals, 2005, 13, 283-292.	3.7	23
361	1/f Noise in Fractal Quaternionic Structures. AIP Conference Proceedings, 2005, , .	0.4	1
362	Prediction of sudden cardiac death after acute myocardial infarction: role of Holter monitoring in the modern treatment era. European Heart Journal, 2005, 26, 762-769.	2.2	215

#	Article	IF	Citations
363	Statistical analysis of the DIAMOND MI study by the multipole method. Physiological Measurement, 2005, 26, 591-598.	2.1	7
364	Results of 24-hour ambulatory electrocardiography in dogs undergoing ovariohysterectomy following premedication with medetomidine or acepromazine. Journal of the American Veterinary Medical Association, 2005, 226, 738-745.	0.5	9
365	Linear and non-linear indices of heart rate variability in chronic heart failure: mutual interrelationships and prognostic value. , 2005, , .		4
366	Quantifying self-similarity in cardiac inter-beat interval time series. , 2005, , .		16
367	Analysis of scaling behaviour of ECG signal during atrial fibrillation. , 2005, , .		3
368	Fractionally integrated process with power-law correlations in variables and magnitudes. Physical Review E, 2005, 72, 026121.	2.1	74
369	Detrended Fluctuation Analysis: A Suitable Long-term Measure of HRV Signals in Children with Sleep Disordered Breathing. , 2005, 2005, 1174-7.		5
370	Model for complex heart rate dynamics in health and diseases. Physical Review E, 2005, 72, 041904.	2.1	90
371	Volatility of linear and nonlinear time series. Physical Review E, 2005, 72, 011913.	2.1	55
372	Cardiac State Diagnosis using Adaptive Neuro-Fuzzy Technique. , 2005, 2005, 3864-7.		9
373	Scaling of horizontal and vertical fixational eye movements. Physical Review E, 2005, 71, 031909.	2.1	31
374	Critical fluctuation of wind reversals in convective turbulence. Physical Review E, 2005, 72, 066308.	2.1	15
375	IDENTIFYING TIME-CLUSTERING STRUCTURES IN LIGHTNING SEQUENCES. Fluctuation and Noise Letters, 2005, 05, L507-L514.	1.5	3
376	Fractal and Complexity Measures of Heart Rate Variability. Clinical and Experimental Hypertension, 2005, 27, 149-158.	1.3	79
377	SOME CASES OF CROSSOVER BEHAVIOR IN HEART INTERBEAT AND ELECTROSEISMIC TIME SERIES. Fractals, 2005, 13, 253-263.	3.7	29
378	Breakdown of Long-Range Temporal Correlations in Theta Oscillations in Patients with Major Depressive Disorder. Journal of Neuroscience, 2005, 25, 10131-10137.	3.6	185
379	DISCRIMINATING FLUCTUATION DYNAMICS IN BURNED AND UNBURNED VEGETATIONAL COVERS. Fluctuation and Noise Letters, 2005, 05, L479-L487.	1.5	0
380	MINIMIZING THE EFFECT OF SINUSOIDAL TRENDS IN DETRENDED FLUCTUATION ANALYSIS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 1767-1773.	1.7	28

#	Article	IF	Citations
381	LONG-TERM CORRELATIONS AND FRACTAL DIMENSION OF BEAT-TO-BEAT BLOOD PRESSURE DYNAMICS. Fluctuation and Noise Letters, 2005, 05, L549-L555.	1.5	9
382	ANALYSIS OF HEARTBEAT DATA WITH SPECTRAL AND FRACTAL TECHNIQUES. Fluctuation and Noise Letters, 2005, 05, L357-L363.	1.5	2
388	Fractal analysis of heart rate variability and mortality in elderly community-dwelling people â€" Longitudinal Investigation for the Longevity and Aging in Hokkaido County (LILAC) study. Biomedicine and Pharmacotherapy, 2005, 59, S45-S48.	5.6	31
389	Short and long term analysis of heart rate variations in spontaneously hypertensive rats: effects of DSP-4 administration. Biomedicine and Pharmacotherapy, 2005, 59, S203-S208.	5.6	0
390	Disturbed fluctuations of resting state EEG synchronization in Alzheimer's disease. Clinical Neurophysiology, 2005, 116, 708-715.	1.5	224
391	Dynamics of the EEG slow-wave synchronization during sleep. Clinical Neurophysiology, 2005, 116, 2783-2795.	1.5	71
392	A statistical model of the sleep-wake dynamics of the cardiac rhythm. , 2005, , .		6
393	Physiological Background of the Loss of Fractal Heart Rate Dynamics. Circulation, 2005, 112, 314-319.	1.6	219
394	Effects of autonomic blockade on self-similarity of blood pressure and heart rate time series. , 2005, , .		1
395	Changes in cardiovascular autonomic regulation among elderly subjects: Followâ€up of sixteen years. Annals of Medicine, 2005, 37, 206-212.	3.8	11
396	Characterization of chaotic dynamics from return times. , 0, , .		1
397	Sensitivity of detrended fluctuation analysis applied to heart rate variability of preterm newborns. , 2005, 2006, 319-22.		6
398	Interface roughening dynamics: Temporal width fluctuations and the correlation length. Physical Review E, 2005, 72, 031606.	2.1	10
399	Regular physical exercise, heart rate variability and turbulence in a 6-year randomized controlled trial in middle-aged men: The DNASCO study. Life Sciences, 2005, 77, 2723-2734.	4.3	36
400	Gait instability and fractal dynamics of older adults with a â€œcautiousâ€•gait: why do certain older adults walk fearfully?. Gait and Posture, 2005, 21, 178-185.	1.4	285
401	Reliability of the long-range power-law correlations obtained from the bilateral stride intervals in asymptomatic volunteers whilst treadmill walking. Gait and Posture, 2005, 22, 46-50.	1.4	52
402	Scaling characteristics of local geomagnetic field and seismicity at Etna volcano and their dynamics in relation to the eruptive activity. Earth and Planetary Science Letters, 2005, 235, 96-106.	4.4	17
403	Long-range temporal correlations in electroencephalographic oscillations: Relation to topography, frequency band, age and gender. Neuroscience, 2005, 130, 549-558.	2.3	130

#	Article	IF	Citations
404	Long-range temporal correlations in the spontaneous spiking of neurons in the hippocampal-amygdala complex of humans. Neuroscience, 2005, 131, 547-555.	2.3	64
405	Nonlinear and chaos characteristics of heart period time series: Healthy aging and postural change. Autonomic Neuroscience: Basic and Clinical, 2005, 121, 94-100.	2.8	39
406	Quantifying signals with power-law correlations: A comparative study of detrended fluctuation analysis and detrended moving average techniques. Physical Review E, 2005, 71, 051101.	2.1	254
407	Dual Antagonistic Autonomic Control Necessary for 1/f Scaling in Heart Rate. , 2005, , 141-151.		1
408	Ongoing Hippocampal Neuronal Activity in Human: Is it Noise or Correlated Fractal Process?. , 2005, , 95-106.		2
409	Fractal properties of SYM-H during quiet and active times. Journal of Geophysical Research, 2005, 110, .	3.3	62
410	Discriminating dynamical patterns in burned and unburned vegetational covers by using SPOT-VGT NDVI data. Geophysical Research Letters, 2005, 32, .	4.0	28
411	Heart rate turbulence after atrial premature beats before spontaneous onset of atrial fibrillation. Journal of the American College of Cardiology, 2005, 45, 278-284.	2.8	38
412	Empirical mode decomposition and correlation properties of long daily ozone records. Physical Review E, 2005, 71, 056126.	2.1	76
413	Similarities in precursory features in seismic shocks and epileptic seizures. Europhysics Letters, 2005, 69, 657-663.	2.0	30
414	Multifractal detrended fluctuation analysis of sunspot time series. Journal of Statistical Mechanics: Theory and Experiment, 2006, 2006, P02003-P02003.	2.3	205
415	Attempt to distinguish long-range temporal correlations from the statistics of the increments by natural time analysis. Physical Review E, 2006, 74, 021123.	2.1	140
416	Fireâ€induced variability in satellite SPOTâ€VGT NDVI vegetational data. International Journal of Remote Sensing, 2006, 27, 3087-3095.	2.9	8
417	Effect of temporally correlated recharge on fluctuations of groundwater levels. Water Resources Research, 2006, 42, .	4.2	20
418	Heart Rate Variability in Pediatric Obstructive Sleep Apnea. , 2006, 2006, 3565-8.		27
419	New computational approaches to the analysis of interbeat intervals in human subjects. Computing in Science and Engineering, 2006, 8, 54-65.	1.2	20
420	Decadal variability in multitemporal satellite SPOTâ€VEGETATION NDII data. International Journal of Remote Sensing, 2006, 27, 4685-4692.	2.9	1
421	Fear induced complexity loss in the electrocardiogram of flight phobics: A multiscale entropy analysis. Biological Psychology, 2006, 73, 272-279.	2.2	40

#	Article	IF	Citations
422	A few remarks on the analysis of physiological data for ubiquitous medicine. International Congress Series, 2006, 1287, 219-224.	0.2	1
423	Measuring multifractality in seismic sequences. Tectonophysics, 2006, 423, 115-123.	2.2	111
424	Fractal and Complexity Measures of Heart Rate Dynamics in Patients with Normal and Left Ventricular Dysfunction: The Role of New Noninvasive Markers for Cardiac Risk Stratification. Korean Circulation Journal, 2006, 36, 583.	1.9	0
425	Nonlinear correlations of daily temperature records over land. Nonlinear Processes in Geophysics, 2006, 13, 571-576.	1.3	48
426	From pre-storm activity to magnetic storms: a transition described in terms of fractal dynamics. Annales Geophysicae, 2006, 24, 3557-3567.	1.6	96
427	Unified approach to catastrophic events: from the normal state to geological or biological shock in terms of spectral fractal and nonlinear analysis. Natural Hazards and Earth System Sciences, 2006, 6, 205-228.	3.6	22
428	Prediction of Paroxysmal Atrial Fibrillation Using Nonlinear Analysis of the R-R Interval Dynamics Before the Spontaneous Onset of Atrial Fibrillation. Circulation Journal, 2006, 70, 94-99.	1.6	66
430	Scaling Behaviors of Traffic in Computer Communication Networks. , 2006, , .		1
431	Prenatal RR fluctuations dynamics: detecting fetal short-range fractal correlations. Prenatal Diagnosis, 2006, 26, 1241-1247.	2.3	6
432	Linear and nonlinear methods for analyses of cardiovascular variability in bipolar disorders. Bipolar Disorders, 2006, 8, 441-452.	1.9	67
433	Linear and non-linear heart rate variability measures in chronic and acute phase of anorexia nervosa. Clinical Physiology and Functional Imaging, 2006, 26, 54-60.	1.2	22
434	Abnormalities in Fractal Heart Rate Dynamics in Chagas Disease. Annals of Noninvasive Electrocardiology, 2006, 11, 145-153.	1.1	8
435	Correlation properties of daily temperature anomalies over land. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 58, 593.	1.7	62
436	Detection of cardiac pathologies using dimensional characteristics of RR intervals in electrocardiograms. Biophysics (Russian Federation), 2006, 51, 115-119.	0.7	5
437	The Role of Heart Rate Variability in Prognosis for Different Modes of Death in Chronic Heart Failure. PACE - Pacing and Clinical Electrophysiology, 2006, 29, 892-904.	1.2	106
438	Entrainment of the natural pacemakers of the heart precedes atrial fibrillation. Computers in Biology and Medicine, 2006, 36, 1204-1215.	7.0	1
439	Dynamic scaling behavior of human brain electroencephalogram. Physica A: Statistical Mechanics and Its Applications, 2006, 364, 315-323.	2.6	7
440	Long memory in stock index futures markets: A value-at-risk approach. Physica A: Statistical Mechanics and Its Applications, 2006, 366, 437-448.	2.6	80

#	Article	IF	Citations
441	Vegetational patterns in burned and unburned areas investigated by using the detrended fluctuation analysis. Physica A: Statistical Mechanics and Its Applications, 2006, 368, 531-535.	2.6	24
442	Regular and stochastic behavior of Parkinsonian pathological tremor signals. Physica A: Statistical Mechanics and Its Applications, 2006, 369, 655-678.	2.6	32
443	Long-range dependencies in heart rate signalsâ€"revisited. Physica A: Statistical Mechanics and Its Applications, 2006, 369, 632-644.	2.6	50
444	Language time series analysis. Physica A: Statistical Mechanics and Its Applications, 2006, 370, 808-816.	2.6	29
445	Fractal analyses for â€˜shortâ€™ time series: A re-assessment of classical methods. Journal of Mathematical Psychology, 2006, 50, 525-544.	1.8	287
446	Quantifying intra-annual persistent behaviour in SPOT-VEGETATION NDVI data for Mediterranean ecosystems of southern Italy. Remote Sensing of Environment, 2006, 101, 95-103.	11.0	43
447	Cardiac state diagnosis using adaptive neuro-fuzzy technique. Medical Engineering and Physics, 2006, 28, 809-815.	1.7	54
448	Scaling properties of image textures: A detrending fluctuation analysis approach. Physica A: Statistical Mechanics and Its Applications, 2006, 361, 677-698.	2.6	29
449	fluctuations in the time dynamics of Mediterranean forest ecosystems by using normalized difference vegetation index satellite data. Physica A: Statistical Mechanics and Its Applications, 2006, 361, 699-706.	2.6	12
450	Analysis of Non-stationary Data for Heart-rate Fluctuations in Terms of Drift and Diffusion Coefficients. Journal of Biological Physics, 2006, 32, 117-128.	1.5	44
451	Unraveling Cell Processes: Interference Imaging Interwoven with Data Analysis. Journal of Biological Physics, 2006, 32, 191-208.	1.5	39
452	Scaling and correlation of atmospheric acid deposition evolutions. Stochastic Environmental Research and Risk Assessment, 2006, 21, 143-149.	4.0	1
453	Multifractality of decomposed EEG during imaginary and real visual-motor tracking. Biological Cybernetics, 2006, 94, 149-156.	1.3	39
454	Scaling and organization of electroencephalographic background activity and alpha rhythm in healthy young adults. Biological Cybernetics, 2006, 95, 401-411.	1.3	8
455	Dynamical structure of center-of-pressure trajectories in patients recovering from stroke. Experimental Brain Research, 2006, 174, 256-269.	1.5	251
456	Observing Internet Worm and Virus Attacks with a Small Network Telescope. Electronic Notes in Theoretical Computer Science, 2006, 151, 47-59.	0.9	22
457	Autonomic information flow improves prognostic impact of task force HRV monitoring. Computer Methods and Programs in Biomedicine, 2006, 81, 246-255.	4.7	27
458	Long-term heart rate variability as a predictor of patient age. Computer Methods and Programs in Biomedicine, 2006, 82, 248-257.	4.7	22

#	Article	IF	Citations
459	Assessment of the Autonomic Control of Heart Rate Variability in Healthy and Spinal-Cord Injured Subjects: Contribution of Different Complexity-Based Estimators. IEEE Transactions on Biomedical Engineering, 2006, 53, 43-52.	4.2	52
460	Aging of Complex Heart Rate Dynamics. IEEE Transactions on Biomedical Engineering, 2006, 53, 89-94.	4.2	25
461	Multiscale Probability Density Function Analysis: Non-Gaussian and Scale-Invariant Fluctuations of Healthy Human Heart Rate. IEEE Transactions on Biomedical Engineering, 2006, 53, 95-102.	4.2	45
462	Investigation of altered heart rate variability, nonlinear properties of heart rate signals, and organ dysfunction longitudinally over time in intensive care unit patients. Journal of Critical Care, 2006, 21, 95-103.	2.2	48
463	Scale-invariant Aspects of Cardiac Dynamics Across Sleep Stages and Circadian Phases. , 2006, 2006, 445-8.		5
464	Nonlinear Analysis of Heart Rate Variability and Plethysmogram in Subjects with Normal and Abnormal Cardiovascular Function. , 2006, , .		4
465	Influence of Autonomic Impairment on Blood-Pressure and Heart-Rate Scaling Structures. , 2006, 2006, 1446-9.		0
466	Long-Term Alterations of Heart Rate Dynamics After Coronary Artery Bypass Graft Surgery. Anesthesia and Analgesia, 2006, 102, 1026-1031.	2.2	25
467	Nonlinear, Biophysically-Informed Speech Pathology Detection. , 0, , .		39
468	Speciational view of macroevolution: Are micro and macroevolution decoupled?. Europhysics Letters, 2006, 75, 342-348.	2.0	5
469	Temperature Curve Complexity Predicts Survival in Critically Ill Patients. American Journal of Respiratory and Critical Care Medicine, 2006, 174, 290-298.	5.6	56
470	Long-term correlations in the surface behavior of dolphins. Europhysics Letters, 2006, 74, 1095-1101.	2.0	9
471	Comparison of RR-interval scaling exponents derived from long and short segments at different wake periods. Physiological Measurement, 2006, 27, N19-N25.	2.1	9
472	Reflection of heart rate regulation on linear and nonlinear heart rate variability measures. Physiological Measurement, 2006, 27, 145-154.	2.1	51
473	Detrended Fluctuation Analysis on Correlations of Complex Networks Under Attack and Repair Strategy. Communications in Theoretical Physics, 2006, 45, 765-768.	2.5	1
474	Scaling graphs of heart rate time series in athletes demonstrating the VLF, LF and HF regions. Physiological Measurement, 2006, 27, N35-N39.	2.1	11
475	Power-Law Fluctuation in Expressway Traffic Flow: Detrended Fluctuation Analysis. Journal of the Physical Society of Japan, 2006, 75, 034002.	1.6	19
476	Multifractal variability in self-potential signals measured in seismic areas. Geological Society Special Publication, 2006, 261, 95-103.	1.3	0

#	Article	IF	Citations
477	Nonlinear Dynamics of Blood Pressure Variability After Caffeine Consumption. Clinical Medicine and Research, 2006, 4, 114-118.	0.8	15
478	Nonlinear Science issues in the dynamics of unstable rock slopes: new tools for rock fall risk assessment and early warnings. Geological Society Special Publication, 2006, 261, 79-93.	1.3	2
479	Long-range negative correlation of glucose dynamics in humans and its breakdown in diabetes mellitus. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 291, R1638-R1643.	1.8	34
480	Fractal dimension in health and heart failure. Biomedizinische Technik, 2006, 51, 194-197.	0.8	19
481	Empirical Study on the Volatility of the Hang-Seng Index. Chinese Physics Letters, 2006, 23, 754-757.	3.3	12
482	Giles F. Filley Lecture. Complex Systems. Proceedings of the American Thoracic Society, 2006, 3, 467-471.	3.5	135
483	Application of wavelet-based tools to study the dynamics of biological processes. Briefings in Bioinformatics, 2006, 7, 375-389.	6.5	36
484	Non-Linear Analyses of Heart Rate Variability During Heavy Exercise and Recovery in Cyclists. International Journal of Sports Medicine, 2006, 27, 780-785.	1.7	57
485	Clinical correlates of non-linear indices of heart rate variability in chronic heart failure patients. Biomedizinische Technik, 2006, 51, 220-223.	0.8	14
486	Influence of sympathetic vascular regulation on heart-rate scaling structure: spinal cord lesion as a model of progressively impaired autonomic control. Biomedizinische Technik, 2006, 51, 240-243.	0.8	3
487	Changes in heart rate variability of athletes during a training camp. Biomedizinische Technik, 2006, 51, 201-204.	0.8	14
488	Discrimination of Vegetational Patterns in Burned and Unburned Areas. International Journal of Nonlinear Sciences and Numerical Simulation, 2006, 7, .	1.0	1
489	Quantum spectrum as a time series: Fluctuation measures. Physical Review E, 2006, 73, 015201.	2.1	32
490	Simulation of transient current through PMMA thin films based on a random walk model. Physical Review B, 2006, 73, .	3.2	6
491	Dependence of heart rate variability on heart period in disease and aging. Physiological Measurement, 2006, 27, 989-998.	2.1	25
492	Nonlinear analysis of Heart Rate Variability signal for the characterization of Cardiac Heart Failure patients. , 2006, 2006, 3431-4.		21
493	Chaos in computer performance. Chaos, 2006, 16, 013110.	2.5	9
494	Scaling and memory of intraday volatility return intervals in stock markets. Physical Review E, 2006, 73, 026117.	2.1	140

#	Article	IF	Citations
495	LONG MEMORY AND SAMPLING FREQUENCIES: EVIDENCE IN STOCK INDEX FUTURES MARKETS. International Journal of Theoretical and Applied Finance, 2006, 09, 787-799.	0.5	11
496	DETRENDED FLUCTUATION ANALYSES OF SHORT-TERM HEART RATE VARIABILITY IN SURGICAL INTENSIVE CARE UNITS. Biomedical Engineering - Applications, Basis and Communications, 2006, 18, 67-72.	0.6	22
497	Nonlinear Analysis of Anesthesia Dynamics by Fractal Scaling Exponent. , 2006, 2006, 6225-8.		3
498	(MULTI)FRACTALITY OF PHYSIOLOGICAL TIME-SERIES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 2103-2110.	1.7	1
499	INVESTIGATION OF CORRELATION DIMENSION ESTIMATION IN HEARTBEAT TIME SERIES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 2481-2498.	1.7	0
500	STOCK MECHANICS: A GENERAL THEORY AND METHOD OF ENERGY CONSERVATION WITH APPLICATIONS ON DJIA. International Journal of Modern Physics C, 2006, 17, 1679-1690.	1.7	2
501	Title is missing!. Physics-Uspekhi, 2007, 50, 819.	2.2	79
502	Detecting REM sleep from the finger: an automatic REM sleep algorithm based on peripheral arterial tone (PAT) and actigraphy. Physiological Measurement, 2007, 28, 129-140.	2.1	93
503	NONLINEAR METHODS OF CARDIOVASCULAR PHYSICS AND THEIR CLINICAL APPLICABILITY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 3325-3371.	1.7	94
504	TIME SERIES ANALYSIS OF ECG: A POSSIBILITY OF THE INITIAL DIAGNOSTICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 3709-3713.	1.7	11
505	Extracting Self-affine (Fractal) Features from Physiologic Signals. , 2007, , .		1
506	hummgenic changes in large scale temporal correlation of EEG in BP. , 2007, , .		1
508	Study of Packet Traffic Fluctuations Near Phase Transition Point from Free Flow to Congestion in Data Network Model. , 2007, , .		9
509	Long-range correlation and multifractality in Bachâ€™s Inventions pitches. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P04012-P04012.	2.3	57
510	Multiscale Fluctuation Analysis Revisited. AIP Conference Proceedings, 2007, , .	0.4	1
511	Emergence of bi-fractal time series from noise via allometric filters. Europhysics Letters, 2007, 79, 30003.	2.0	3
512	Complex fluctuations and robustness in stylized signalling networks. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P01013-P01013.	2.3	3
513	Nonlinear characteristics of heart rate variability during unsupervised and steady physical activities. Physiological Measurement, 2007, 28, 277-286.	2.1	8

#	Article	IF	Citations
514	Scaling Behaviour and Memory in Heart Rate of Healthy Human. Chinese Physics Letters, 2007, 24, 3002-3005.	3.3	2
515	Heart rate variability associated with rapid eye movements during sleep. , 2007, , .		7
516	Tracking moving targets of different predictabilities. , 2007, , .		0
517	Fractal and Multifractal Analysis of Heart Rate Variability. , 2007, , .		4
518	Nonstationary Langevin equation: Statistical properties and application to explain effects observed in cardiological time series. Physical Review E, 2007, 76, 021110.	2.1	9
519	Detecting temporal and spatial correlations in pseudoperiodic time series. Physical Review E, 2007, 75, 016218.	2.1	32
520	Relation between volatility correlations in financial markets and Omori processes occurring on all scales. Physical Review E, 2007, 76, 016109.	2.1	56
521	Long-term invariant parameters obtained from 24-h Holter recordings: A comparison between different analysis techniques. Chaos, 2007, 17, 015108.	2.5	40
522	Distinguishing cancerous from noncancerous cells through analysis of electrical noise. Physical Review E, 2007, 76, 041908.	2.1	41
523	Multifractality and scale invariance in human heartbeat dynamics. Physical Review E, 2007, 76, 041910.	2.1	18
524	Presence as Determined by Fractal Perceptual-Motor Dynamics. Cyberpsychology, Behavior and Social Networking, 2007, 10, 122-130.	2.2	14
525	On the trend, detrending, and variability of nonlinear and nonstationary time series. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14889-14894.	7.1	729
526	Virtual Robot for Interactive Gait Training Improving Regularity and Dynamic Stability of the Stride Patterns. , 2007, , .		5
527	Investigating dynamical trends in burned and unburned vegetation covers using SPOT-VGT NDVI data. Journal of Geophysics and Engineering, 2007, 4, 128-138.	1.4	7
528	Detrended Fluctuation Analysis of Traffic Data. Chinese Physics Letters, 2007, 24, 2142-2145.	3.3	21
529	Genetic Contributions to Long-Range Temporal Correlations in Ongoing Oscillations. Journal of Neuroscience, 2007, 27, 13882-13889.	3.6	119
530	Epileptogenic Neocortical Networks Are Revealed by Abnormal Temporal Dynamics in Seizure-Free Subdural EEG. Cerebral Cortex, 2007, 17, 1386-1393.	2.9	120
531	Scaling patterns of heart rate variability data. Physiological Measurement, 2007, 28, 721-730.	2.1	20

#	Article	IF	Citations
532	Endogenous circadian rhythm in human motor activity uncoupled from circadian influences on cardiac dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20702-20707.	7.1	119
533	Aging Process Modulates Nonlinear Dynamics in Liver Cell Metabolism. Journal of Biological Chemistry, 2007, 282, 19217-19226.	3.4	19
534	Assessing nonlinear properties of heart rate variability from short-term recordings: are these measurements reliable?. Physiological Measurement, 2007, 28, 1067-1077.	2.1	78
535	Peripheral neuropathy does not alter the fractal dynamics of stride intervals of gait. Journal of Applied Physiology, 2007, 102, 965-971.	2.5	72
536	The emergent coordination of cognitive function.. Journal of Experimental Psychology: General, 2007, 136, 551-568.	2.1	186
537	Predicting asthma control and exacerbations: chronic asthma as a complex dynamic model. Current Opinion in Allergy and Clinical Immunology, 2007, 7, 223-230.	2.3	80
538	The Role of Heart Rate Variability in Risk Stratification for Adverse Postoperative Cardiac Events. Anesthesia and Analgesia, 2007, 105, 1548-1560.	2.2	79
539	Loss of complexity characterizes the heart rate response to experimental hemorrhagic shock in swine*. Critical Care Medicine, 2007, 35, 519-525.	0.9	104
540	SPOT-VGT time series based estimation of fire-induced variability in vegetation covers. , 2007, , .		0
541	Prehospital Loss of R-to-R Interval Complexity is Associated With Mortality in Trauma Patients. Journal of Trauma, 2007, 63, 512-518.	2.3	64
542	The PARAChute Project: Remote Monitoring of Posture and Gait for Fall Prevention. Eurasip Journal on Advances in Signal Processing, 2007, 2007, .	1.7	7
543	Phenomenological analysis of medical time series with regular and stochastic components. , 2007, , .		0
544	Heart rate variability as a measure of autonomic regulation of cardiac activity for assessing stress and welfare in farm animals â€" A review. Physiology and Behavior, 2007, 92, 293-316.	2.1	703
545	Feedback modulates the temporal scale-free dynamics of brain electrical activity in a hypothesis testing task. Neuroscience, 2007, 146, 1400-1412.	2.3	46
546	The modifications of the long-range temporal correlations of the sleep EEG due to major depressive episode disappear with the status of remission. Neuroscience, 2007, 148, 782-793.	2.3	15
547	Carvedilol can restore the multifractal properties of heart beat dynamics in patients with advanced congestive heart failure. Autonomic Neuroscience: Basic and Clinical, 2007, 132, 76-80.	2.8	20
548	Sleep stage dependent patterns of nonlinear heart rate dynamics in postmenopausal women. Autonomic Neuroscience: Basic and Clinical, 2007, 134, 74-80.	2.8	15
549	Scale structure of heart-rate dynamics: Multifractality or artefacts?. Autonomic Neuroscience: Basic and Clinical, 2007, 137, 92-93.	2.8	1

#	Article	IF	Citations
550	Conditions of autonomic reciprocal interplay versus autonomic co-activation: Effects on non-linear heart rate dynamics. Autonomic Neuroscience: Basic and Clinical, 2007, 137, 27-36.	2.8	34
551	Geomorphological limits to self-organization of alpine forest-tundra ecotone vegetation. Geomorphology, 2007, 91, 378-392.	2.6	26
552	An autonomic flexibilityâ€“neurovisceral integration model of anxiety and cardiac vagal tone. Biological Psychology, 2007, 74, 185-199.	2.2	600
553	Heart rate variability in myocardial infarction and heart failure. International Journal of Cardiology, 2007, 120, 289-296.	1.7	122
554	Characterization of the sleep EEG in acutely depressed men using detrended fluctuation analysis. Clinical Neurophysiology, 2007, 118, 940-950.	1.5	76
555	Detrended fluctuation analysis of resting EEG in depressed outpatients and healthy controls. Clinical Neurophysiology, 2007, 118, 2489-2496.	1.5	74
556	Scale-free dynamics of the synchronization between sleep EEG power bands and the high frequency component of heart rate variability in normal men and patients with sleep apneaâ€“hypopnea syndrome. Clinical Neurophysiology, 2007, 118, 2752-2764.	1.5	17
557	Heart Rate Chaos as a Mortality Predictor in Mild to Moderate Heart Failure. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5051-4.	0.5	6
558	Introduction: Cardiovascular physics. Chaos, 2007, 17, 015101.	2.5	26
559	Long-range dependence in heart rate variability data: ARFIMA modelling vs detrended fluctuation analysis. , 2007, , .		6
560	Analysis of physiological meaning of detrended Fluctuation Analysis in Heart Rate Variability using a lumped parameter model. , 2007, , .		7
561	Estimation of long-term correlations from Fetal Heart Rate variability signal for the identification of pathological fetuses. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 295-8.	0.5	5
562	Stability of surface reflectance scaling properties explored by using SPOTâ€VGT data. International Journal of Remote Sensing, 2007, 28, 5633-5640.	2.9	0
563	Fractal Analysis of EEG in Hypnosis and its Relationship with Hypnotizability. International Journal of Clinical and Experimental Hypnosis, 2007, 55, 14-31.	1.8	31
564	Novel spectral indexes of heart rate variability as predictors of sudden and nonâ€sudden cardiac death after an acute myocardial infarction. Annals of Medicine, 2007, 39, 54-62.	3.8	53
565	Comparison of nonlinear methods symbolic dynamics, detrended fluctuation, and PoincarÃ© plot analysis in risk stratification in patients with dilated cardiomyopathy. Chaos, 2007, 17, 015120.	2.5	65
566	Fractal scale-invariant and nonlinear properties of cardiac dynamics remain stable with advanced age: a new mechanistic picture of cardiac control in healthy elderly. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R1923-R1937.	1.8	101
567	Quantifying fractal dynamics of groundwater systems with detrended fluctuation analysis. Journal of Hydrology, 2007, 336, 139-146.	5.4	72

#	Article	IF	Citations
568	Temporal scaling comparison of real hydrological data and model runoff records. Journal of Hydrology, 2007, 336, 186-198.	5.4	37
569	Long-range correlations of extrapolar total ozone are determined by the global atmospheric circulation. Nonlinear Processes in Geophysics, 2007, 14, 435-442.	1.3	23
570	Long-range Correlated Glucose Fluctuations in Diabetes. Methods of Information in Medicine, 2007, 46, 222-226.	1.2	31
571	Long-Term Power-Law Fluctuation in Internet Traffic. Journal of the Physical Society of Japan, 2007, 76, 044001.	1.6	12
572	Long-range correlations in daily relative humidity fluctuations: A new index to characterize the climate regions over China. Geophysical Research Letters, 2007, 34, .	4.0	47
573	A comparison of ground geoelectric activity between three regions of different level of seismicity. Natural Hazards and Earth System Sciences, 2007, 7, 591-598.	3.6	8
574	Autonomic Imbalance Induced Breakdown of Long-range Dependence in Healthy Heart Rate. Methods of Information in Medicine, 2007, 46, 174-178.	1.2	17
575	Power-law temporal autocorrelation of activity reflects severity of parkinsonism. Movement Disorders, 2007, 22, 1308-1313.	3.9	25
576	Investigating the time-correlation properties in self-potential signals recorded in a seismic area of Irpinia, southern Italy. Chaos, Solitons and Fractals, 2007, 32, 199-211.	5.1	9
577	A non-linear approach to the structureâ€“mobility relationship in protein main chains. Chaos, Solitons and Fractals, 2007, 32, 1305-1315.	5.1	14
578	Revisiting sample entropy analysis. Physica A: Statistical Mechanics and Its Applications, 2007, 376, 158-164.	2.6	78
579	Measurement of time-dependent fractal dimension for time series of silicon content in pig iron. Physica A: Statistical Mechanics and Its Applications, 2007, 376, 133-138.	2.6	16
580	Non-linear characteristics and long-range correlations in Asian stock markets. Physica A: Statistical Mechanics and Its Applications, 2007, 378, 399-407.	2.6	53
581	Statistical properties of German Dax and Chinese indices. Physica A: Statistical Mechanics and Its Applications, 2007, 378, 387-398.	2.6	28
582	Cycles, scaling and crossover phenomenon in length of the day (LOD) time series. Physica A: Statistical Mechanics and Its Applications, 2007, 379, 459-464.	2.6	10
583	Long range correlations in the heart rate variability following the injury of cardiac arrest. Physica A: Statistical Mechanics and Its Applications, 2007, 380, 250-258.	2.6	6
584	Anti-correlation and multifractal features of Spain electricity spot market. Physica A: Statistical Mechanics and Its Applications, 2007, 380, 333-342.	2.6	57
585	Volatilities, traded volumes, and the hypothesis of price increments in derivative securities. Physica A: Statistical Mechanics and Its Applications, 2007, 382, 577-585.	2.6	1

#	Article	IF	Citations
586	Relaxation and phase space singularities in time series of human magnetoencephalograms as indicator of photosensitive epilepsy. Physica A: Statistical Mechanics and Its Applications, 2007, 383, 443-454.	2.6	4
587	Detrended fluctuation analysis of heart intrabeat dynamics. Physica A: Statistical Mechanics and Its Applications, 2007, 384, 429-438.	2.6	39
588	Scaling analysis of paces of fetal breathing, gross-body and extremity movements. Physica A: Statistical Mechanics and Its Applications, 2007, 386, 231-239.	2.6	12
589	Heart rate variability in mental stress aloud. Medical Engineering and Physics, 2007, 29, 344-349.	1.7	78
590	Long-range correlations in two-dimensional spatio-temporal seismic fluctuations. Physica A: Statistical Mechanics and Its Applications, 2007, 377, 279-284.	2.6	44
591	Detrended fluctuation analysis of short datasets: An application to fetal cardiac data. Physica D: Nonlinear Phenomena, 2007, 226, 23-31.	2.8	46
592	Scaling behavior of an artificial traffic model on scale-free networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 366, 14-19.	2.1	16
593	Optimal fractal-scaling analysis of human EEG dynamic for depth of anesthesia quantification. Journal of the Franklin Institute, 2007, 344, 212-229.	3.4	48
594	Space storm as a phase transition. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 675-684.	1.6	35
595	Fractal time series analysis of postural stability in elderly and control subjects. Journal of NeuroEngineering and Rehabilitation, 2007, 4, 12.	4.6	90
596	Methods of electroencephalographic signal analysis for detection of small hidden changes. Nonlinear Biomedical Physics, 2007, 1, 9.	1.5	9
597	Nonlinear Indices of Heart Rate Variability in Chronic Heart Failure Patients: Redundancy and Comparative Clinical Value. Journal of Cardiovascular Electrophysiology, 2007, 18, 425-433.	1.7	121
598	Experimental demonstration of chaotic instability in biological nitrification. ISME Journal, 2007, 1, 385-393.	9.8	247
599	Comparison of methods for editing of ectopic beats in measurements of short-term non-linear heart rate dynamics. Clinical Physiology and Functional Imaging, 2007, 27, 126-133.	1.2	27
600	The ??Chaos Theory?? and Nonlinear Dynamics in Heart Rate Variability Analysis: Does it Work in Short-Time Series in Patients with Coronary Heart Disease?. Annals of Noninvasive Electrocardiology, 2007, 12, 130-136.	1.1	44
601	Scale-Invariant Aspects of Cardiac Dynamics Across Sleep Stages and Circadian Phases. IEEE Engineering in Medicine and Biology Magazine, 2007, 26, 33-37.	0.8	56
602	Complexity and Nonlinearity in Short-Term Heart Period Variability: Comparison of Methods Based on Local Nonlinear Prediction. IEEE Transactions on Biomedical Engineering, 2007, 54, 94-106.	4.2	134
603	Regularity of center-of-pressure trajectories depends on the amount of attention invested in postural control. Experimental Brain Research, 2007, 181, 1-11.	1.5	327

#	Article	IF	Citations
604	1/f Î² fluctuations in bimanual coordination: an additional challenge for modeling. Experimental Brain Research, 2007, 183, 225-234.	1.5	44
605	Temporally Resolved Fluctuation Analysis of Sleep ECG. Journal of Biological Physics, 2007, 33, 19-33.	1.5	14
606	Scaling Characteristics of Heart Rate Time Series Before the Onset of Ventricular Tachycardia. Annals of Biomedical Engineering, 2007, 35, 201-207.	2.5	17
607	On NAOâ€™s predictability through the DFA method. Meteorology and Atmospheric Physics, 2007, 96, 221-227.	2.0	12
608	Investigating fire-induced behavioural trends in vegetation covers. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 2018-2023.	3.3	4
609	Long-range scaling behaviours of human colonic pressure activities. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 1888-1895.	3.3	16
610	Fractal analysis of river flow fluctuations. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 915-932.	2.6	134
611	Maximizing information exchange between complex networks. Physics Reports, 2008, 468, 1-99.	25.6	211
612	The effects of neuromuscular fatigue on task performance during repetitive goal-directed movements. Experimental Brain Research, 2008, 187, 573-585.	1.5	112
613	Complexity of human postural control in young and older adults during prolonged standing. Experimental Brain Research, 2008, 191, 265-276.	1.5	181
614	Correlation properties of heartbeat dynamics. European Biophysics Journal, 2008, 37, 1247-1252.	2.2	21
615	Feature identification in circadian rhythms of mice strains using inÂvivo information. Mammalian Genome, 2008, 19, 366-377.	2.2	4
616	Synergic Co-activation in Forearm Pronation. Annals of Biomedical Engineering, 2008, 36, 2002-2018.	2.5	18
617	Unraveling the finding of 1/f Î² noise in self-paced and synchronized tapping: a unifying mechanistic model. Biological Cybernetics, 2008, 99, 159-170.	1.3	57
618	The use of synthetic input sequences in time series modeling. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5276-5282.	2.1	3
619	Blocks adjustmentâ€"reduction of bias and variance of detrended fluctuation analysis using Monte Carlo simulation. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 217-242.	2.6	7
620	Detrended fluctuation analysis of particle condensation on complex networks. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 1361-1368.	2.6	10
621	Long correlations and Normalized Truncated Levy Models applied to the study of Indian Market Indices in comparison with other emerging markets. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 1273-1282.	2.6	8

#	Article	IF	Citations
622	Strong anticipation: Sensitivity to long-range correlations in synchronization behavior. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 5271-5278.	2.6	87
623	Scaling and memory effect in volatility return interval of the Chinese stock market. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 6812-6818.	2.6	36
624	Influence of filters in the detrended fluctuation analysis of digital electroencephalographic data. Journal of Neuroscience Methods, 2008, 170, 310-316.	2.5	13
625	Effect of mobile phone radiation on heart rate variability. Computers in Biology and Medicine, 2008, 38, 709-712.	7.0	30
626	Detecting long-range correlations of traffic time series with multifractal detrended fluctuation analysis. Chaos, Solitons and Fractals, 2008, 36, 82-90.	5.1	162
627	Topological considerations of an attractor based on temporal locality along its phase trajectories. Chaos, Solitons and Fractals, 2008, 37, 876-893.	5.1	1
628	-Noise structures in Pollocks's drip paintings. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 281-295.	2.6	33
629	Detrended fluctuation analysis of forest fires and related weather parameters. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 2091-2099.	2.6	31
630	Space-magnitude dependent scaling behaviour in seismic interevent series revealed by detrended fluctuation analysis. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 3655-3659.	2.6	8
631	Alteration in scaling behavior of short-term heartbeat time series for professional shooting athletes from rest to exercise. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 6553-6557.	2.6	9
632	Persistence and phase synchronisation properties of fixational eye movements. European Physical Journal: Special Topics, 2008, 161, 207-223.	2.6	12
633	Complex dynamics of human red blood cell flickering: Alterations within vivoaging. Physical Review E, 2008, 78, 020901.	2.1	60
634	Comparative analysis of temporal dynamics of EEG and phase synchronization of EEG to localize epileptic sites from high density scalp EEG interictal recordings. , 2008, 2008, 4548-50.		13
635	Analysis of correlation properties of random processes using short signals. Technical Physics Letters, 2008, 34, 306-308.	0.7	8
636	Preoperative Alterations in Correlation Properties and Complexity of Râ€“R Interval Dynamics Predict the Risk of Atrial Fibrillation after Coronary Artery Bypass Grafting in Patients with Preserved Left Ventricular Function. Journal of Cardiovascular Electrophysiology, 2008, 19, 907-912.	1.7	10
637	Novel Measures of Heart Rate Variability Predict Cardiovascular Mortality in Older Adults Independent of Traditional Cardiovascular Risk Factors: The Cardiovascular Health Study (CHS). Journal of Cardiovascular Electrophysiology, 2008, 19, 1169-1174.	1.7	82
638	Autonomic Markers as Predictors of Nonfatal Acute Coronary Events after Myocardial Infarction. Annals of Noninvasive Electrocardiology, 2008, 13, 120-129.	1.1	41
639	Comparison of Wavelet Transform Modulus Maxima and Multifractal Detrended Fluctuation Analysis of Heart Rate in Patients with Systolic Dysfunction of Left Ventricle. Annals of Noninvasive Electrocardiology, 2008, 13, 155-164.	1.1	37

#	Article	IF	Citations
640	Detrended Fluctuation Analysis of Intracranial Pressure Predicts Outcome Following Traumatic Brain Injury. IEEE Transactions on Biomedical Engineering, 2008, 55, 2509-2518.	4.2	48
641	Asymptotic Properties of the Detrended Fluctuation Analysis of Long-Range-Dependent Processes. IEEE Transactions on Information Theory, 2008, 54, 2041-2052.	2.4	56
642	Investigating Scale Invariant Dynamics in Minimum Toe Clearance Variability of the Young and Elderly During Treadmill Walking. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2008, 16, 380-389.	4.9	58
643	Discrimination ability of individual measures used in sleep stages classification. Artificial Intelligence in Medicine, 2008, 44, 261-277.	6.5	119
644	Development of more erratic heart rate patterns is associated with mortality postâ€“myocardial infarction. Journal of Electrocardiology, 2008, 41, 110-115.	0.9	38
645	Heartbeat dynamics in adrenergic blocker treated conscious beagle dogs. Journal of Pharmacological and Toxicological Methods, 2008, 58, 118-128.	0.7	8
646	Intra-annual dynamical persistent mechanisms in mediterranean ecosystems revealed SPOT-VEGETATION time series. Ecological Complexity, 2008, 5, 151-156.	2.9	19
647	The mystery of sudden death: Mechanisms for risks. Epilepsy and Behavior, 2008, 12, 3-24.	1.7	63
649	Complexity of chronic asthma and chronic obstructive pulmonary disease: implications for risk assessment, and disease progression and control. Lancet, The, 2008, 372, 1088-1099.	13.7	133
650	Very Slow EEG Fluctuations Predict the Dynamics of Stimulus Detection and Oscillation Amplitudes in Humans. Journal of Neuroscience, 2008, 28, 8268-8272.	3.6	383
651	Non-Gaussian heart rate as an independent predictor of mortality in patients with chronic heart failure. Heart Rhythm, 2008, 5, 261-268.	0.7	115
652	Changes in Detrended Fluctuation indices with aging in healthy and Congestive Heart Failure subjects. , 2008, , .		5
653	Non-linear and chaos characteristics of heart sound time series. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2008, 222, 265-272.	1.8	21
654	HRV complexity as a diagnostic tool for late onset sepsis in sick premature infants. , 2008, , .		1
655	Detrended Fluctuation Analysis of Heartbeat Interval Signal: Alternans Lowers the Scaling Exponent of Heartbeat Fluctuation Dynamics in Animal Models and Humans. , 2008, , .		3
656	Data fusion for heart diseases classification using multi-layer feed forward neural network. , 2008, , .		15
657	A blind method for the estimation of the Hurst exponent in time series: Theory and application. Chaos, 2008, 18, 033126.	2.5	20
658	Scaling effect in planetary waves over Antarctica. International Journal of Remote Sensing, 2008, 29, 2697-2704.	2.9	24

#	Article	IF	Citations
659	A Data Mining Approach for Coronary Heart Disease Prediction using HRV Features and Carotid Arterial Wall Thickness. , 2008, , .		21
660	Characterizing nonlinear heartbeat dynamics within a point process framework. , 2008, 2008, 2781-4.		7
661	Analysis of precipitation characteristics of South and North China based on the power-law tail exponents. Chinese Physics B, 2008, 17, 2745-2752.	1.4	31
662	Detrended Fluctuation Analysis of Heart Rate Variability in Normal and Growth-Restricted Fetuses. Gynecologic and Obstetric Investigation, 2008, 65, 116-122.	1.6	15
663	Linear and nonlinear heart rate variability risk stratification in heart failure patients. , 2008, , .		11
664	Long Short-Term Memory for apnea detection based on Heart Rate Variability. , 2008, 2008, 5234-7.		18
665	MONA LISA: THE STOCHASTIC VIEW AND FRACTALITY IN COLOR SPACE. International Journal of Modern Physics C, 2008, 19, 855-866.	1.7	13
666	EFFECT OF MEDITATION ON SCALING BEHAVIOR AND COMPLEXITY OF HUMAN HEART RATE VARIABILITY. Fractals, 2008, 16, 199-208.	3.7	28
667	Heart rate variability and its changes over 5 years in older adults. Age and Ageing, 2008, 38, 212-218.	1.6	72
668	Nonlinear scaling analysis of glucose metabolism in normal and cancer cells. Journal of Biomedical Optics, 2008, 13, 031219.	2.6	14
669	Nonlinear Analysis of Time Series in Genome-Wide Linkage Disequilibrium Data. AIP Conference Proceedings, 2008, , .	0.4	1
670	Characterizing multimode interaction in renal autoregulation. Physiological Measurement, 2008, 29, 945-958.	2.1	19
671	ECG scaling properties of cardiac arrhythmias using detrended fluctuation analysis. Physiological Measurement, 2008, 29, 1255-1266.	2.1	11
672	Complexity of heartbeat interval series in young healthy trained and untrained men. Physiological Measurement, 2008, 29, 439-450.	2.1	33
673	Heart rate variability associated with experienced Zen meditation. , 2008, , .		7
674	In the Spotlight: Biomedical Signal Processing. IEEE Reviews in Biomedical Engineering, 2008, 1, 8-11.	18.0	7
675	Comparison of nonlinear indices in analyses of heart rate variability. , 2008, 2008, 2145-8.		1
676	Asthma as a nonlinear complex dynamic system: a novel approach to understand the temporal behaviour of chronic asthma and its response to Â-agonists. European Respiratory Review, 2008, 17, 67-69.	7.1	5

#	Article	IF	Citations
677	Editing RR Series and computation of long-term scaling parameters. , 2008, , .		1
678	Classifying some cardiac abnormalities using heart rate variability signals. , 2008, , .		2
679	Stability study of the TCP-RED system using detrended fluctuation analysis. , 2008, , .		1
680	Correlation Among Piecewise Unwanted Traffic Time Series. , 2008, , .		11
681	Usage of the Mori-Zwanzig method in time series analysis. Physical Review E, 2008, 77, 011117.	2.1	15
682	Fractal connectivity of long-memory networks. Physical Review E, 2008, 77, 036104.	2.1	124
683	Assessment of Cardiovascular Regulation After Burns by Nonlinear Analysis of the Electrocardiogram. Journal of Burn Care and Research, 2008, 29, 56-63.	0.4	20
684	Fractal scaling properties of heart rate dynamics following resistance exercise training. Journal of Applied Physiology, 2008, 105, 109-113.	2.5	30
685	Heart Rate and Blood Pressure Variability and Baroreflex Sensitivity in Patients With Anorexia Nervosa. Psychosomatic Medicine, 2008, 70, 695-700.	2.0	37
686	Multifractal Analysis of Chaotic Flashing-Induced Instabilities in Boiling Channels in the Natural-Circulation CIRCUS Facility. Nuclear Science and Engineering, 2008, 158, 164-193.	1.1	14
687	Loss of Fractal Heart Rate Dynamics in Depressive Hemodialysis Patients. Psychosomatic Medicine, 2008, 70, 177-185.	2.0	21
688	Postmenopausal estrogen therapy modulates nocturnal nonlinear heart rate dynamics. Menopause, 2008, 15, 693-697.	2.0	7
689	Heart-Rate Complexity for Prediction of Prehospital Lifesaving Interventions in Trauma Patients. Journal of Trauma, 2008, 65, 813-819.	2.3	75
690	Statistical features of seismoelectric signals prior to M7.4 Guerrero-Oaxaca earthquake (MÃ©xico). Natural Hazards and Earth System Sciences, 2008, 8, 1001-1007.	3.6	15
691	Investigating non-uniform scaling behaviour in temporal fluctuations of seismicity. Natural Hazards and Earth System Sciences, 2008, 8, 973-976.	3.6	7
692	Deterministic Chaos and Fractal Complexity in the Dynamics of Cardiovascular Behavior: Perspectives on a New Frontier. Open Cardiovascular Medicine Journal, 2009, 3, 110-123.	0.3	57
693	Long-Range Correlations in Rectal Temperature Fluctuations of Healthy Infants during Maturation. PLoS ONE, 2009, 4, e6431.	2.5	4
694	Understanding dynamics of the system using Hilbert phases: An application to study neonatal and fetal brain signals. Physical Review E, 2009, 80, 046213.	2.1	11

#	Article	IF	Citations
695	Multifactor analysis of multiscaling in volatility return intervals. Physical Review E, 2009, 79, 016103.	2.1	39
696	Phase statistics approach to human ventricular fibrillation. Physical Review E, 2009, 80, 051917.	2.1	8
697	Multiplicative cascades and seismicity in natural time. Physical Review E, 2009, 80, 022102.	2.1	42
698	Using detrended fluctuation analysis for lagged correlation analysis of nonstationary signals. Physical Review E, 2009, 79, 057202.	2.1	18
699	Delays in the human heartbeat dynamics. Chaos, 2009, 19, 028502.	2.5	14
700	Screening of patients with obstructive sleep Apnea syndrome using C4.5 algorithm based on non linear analysis of respiratory signals during sleep. , 2009, 2009, 3465-9.		12
701	Statistical physics approaches for network-on-chip traffic characterization. , 2009, , .		44
702	Multifractal estimators of short-time autonomic control of the heart rate. , 2009, , .		1
703	MULTIFRACTAL ANALYSIS OF HEART RATE VARIABILITY IN NORMAL AND GROWTH-RESTRICTED FETUSES. Fractals, 2009, 17, 385-394.	3.7	3
704	DETRENDED FLUCTUATION ANALYSIS OF THE TCP-RED ALGORITHM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 4237-4245.	1.7	2
705	ADAPTIVE DATA ANALYSIS OF COMPLEX FLUCTUATIONS IN PHYSIOLOGIC TIME SERIES. Advances in Adaptive Data Analysis, 2009, 01, 61-70.	0.6	124
706	A CLASSIFICATION METHOD OF DIFFERENT MOTOR IMAGERY TASKS BASED ON FRACTAL FEATURES FOR BRAIN-MACHINE INTERFACE. Journal of Integrative Neuroscience, 2009, 08, 95-122.	1.7	6
707	SEARCHING FOR PERSISTENCE IN ATMOSPHERIC TEMPERATURE TIME SERIES: A RE-VISITATION OF RESULTS FROM DETRENDED FLUCTUATION ANALYSIS. International Journal of Modern Physics B, 2009, 23, 5417-5423.	2.0	3
708	Multiparameter analysis of heart rate variability signal for the investigation of high risk fetuses. , 2009, 2009, 4662-5.		10
709	Intrinsic dynamics of heart regulatory systems on short timescales: from experiment to modelling. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P01016.	2.3	5
710	Altered Heart Rhythm Dynamics in Very Low Birth Weight Infants With Impending Intraventricular Hemorrhage. Pediatrics, 2009, 123, 810-815.	2.1	45
711	Crossover Phenomena in Detrended Fluctuation Analysis Used in Financial Markets. Communications in Theoretical Physics, 2009, 51, 358-362.	2.5	3
712	Cardiac Autonomic Regulation under Hypnosis Assessed by Heart Rate Variability: Spectral Analysis and Fractal Complexity. Neuropsychobiology, 2009, 60, 104-112.	1.9	43

#	Article	IF	Citations
713	Uncorrelated Randomness of the Heart Rate Is Associated with Sepsis in Sick Premature Infants. Neonatology, 2009, 96, 109-114.	2.0	34
714	Alternans Lowers the Scaling Exponent of Heartbeat Fluctuation Dynamics: A Detrended Fluctuation Analysis in Animal Models and Humans. , 2009, , .		3
715	Fractal analysis of discharge current fluctuations. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P03020.	2.3	21
716	Repeatability of heart rate variability in congenital hypothyroidism as analysed by detrended fluctuation analysis. Physiological Measurement, 2009, 30, 1017-1025.	2.1	2
717	Extreme Value Analysis of Heart Beat Fluctuations. , 2009, , .		0
718	The Scaling Exponent Distinguishes the Injured Sick Hearts Against Normal Healthy Hearts. , 2009, , .		1
719	Premature ventricular contractions, a typical extra-systole arrhythmia, lowers the scaling exponent. , 2009, , .		1
720	Short-term heart rate variability and cardiac norepinephrine spillover in patients with depression and panic disorder. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 297, H674-H679.	3.2	77
721	Detrended fluctuation analysis of a systolic blood pressure control loop. New Journal of Physics, 2009, 11, 103005.	2.9	16
722	Objective Measures of Disordered Sleep in Fibromyalgia. Journal of Rheumatology, 2009, 36, 2009-2016.	2.0	65
723	Fluctuation analysis of lung function as a predictor of long-term response to Â2-agonists. European Respiratory Journal, 2009, 33, 486-493.	6.7	26
724	Recent advances in the analysis of behavioural organization and interpretation as indicators of animal welfare. Journal of the Royal Society Interface, 2009, 6, 1103-1119.	3.4	75
725	Cardio-postural deconditioning: A model for post-flight orthostatic intolerance. Respiratory Physiology and Neurobiology, 2009, 169, S21-S25.	1.6	25
726	Local Scale Exponents of Blood Pressure and Heart Rate Variability by Detrended Fluctuation Analysis: Effects of Posture, Exercise, and Aging. IEEE Transactions on Biomedical Engineering, 2009, 56, 675-684.	4.2	94
727	Stratification Pattern of Static and Scale-Invariant Dynamic Measures of Heartbeat Fluctuations Across Sleep Stages in Young and Elderly. IEEE Transactions on Biomedical Engineering, 2009, 56, 1564-1573.	4.2	93
728	Isometric handgrip exercise improves acute neurocardiac regulation. European Journal of Applied Physiology, 2009, 107, 509-515.	2.5	50
729	Short- and long-term correlations in repetitive movements. Cognitive Processing, 2009, 10, 290-293.	1.4	2
730	Ventricular arrhythmic disturbances and autonomic modulation after beating-heart revascularization in patients with pulmonary normotension. Wiener Klinische Wochenschrift, 2009, 121, 324-329.	1.9	4

#	Article	IF	Citations
731	Peculiar statistical properties of Chinese stock indices in bull and bear market phases. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 891-899.	2.6	17
732	Multifractal properties of the Indian financial market. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 1593-1602.	2.6	80
733	Long-range correlations in heart rate variability during computer-mouse work under time pressure. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 1527-1534.	2.6	5
734	Dynamics of electricity market correlations. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 2173-2188.	2.6	15
735	Multifractal estimates of monofractality in RR-heart series in power spectrum ranges. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 3486-3502.	2.6	35
736	Correlations and variability in electrical signals related to earthquake activity. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4218-4228.	2.6	15
737	Coronary artery disease prediction method using linear and nonlinear feature of heart rate variability in three recumbent postures. Information Systems Frontiers, 2009, 11, 419-431.	6.4	15
738	A model of time estimation and error feedback in predictive timing behavior. Journal of Computational Neuroscience, 2009, 26, 119-138.	1.0	13
739	Applying fractal analysis to short sets of heart rate variability data. Medical and Biological Engineering and Computing, 2009, 47, 709-717.	2.8	38
740	Angular momentum synergies during walking. Experimental Brain Research, 2009, 197, 185-197.	1.5	70
741	Multiscale agent-based cancer modeling. Journal of Mathematical Biology, 2009, 58, 545-559.	1.9	136
742	The effect of heart rate variability on request for labour epidural analgesia. Anaesthesia, 2009, 64, 856-862.	3.8	4
743	Influence of postexercise cooling techniques on heart rate variability in men. Experimental Physiology, 2009, 94, 695-703.	2.0	30
744	Fractal properties of human heart period variability: physiological and methodological implications. Journal of Physiology, 2009, 587, 3929-3941.	2.9	58
745	Assessing aversive emotional states through the heart in mice: Implications for cardiovascular dysregulation in affective disorders. Neuroscience and Biobehavioral Reviews, 2009, 33, 181-190.	6.1	39
746	Statistical properties of trading volume of Chinese stocks. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 2427-2434.	2.6	38
747	Wavelet Leaders: A new method to estimate the multifractal singularity spectra. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 2793-2805.	2.6	91
748	Detection of changes in the fractal scaling of heart rate and speed in a marathon race. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 3798-3808.	2.6	32

#	Article	IF	Citations
749	Long range correlation of hydrophilicity and flexibility along the calcium binding protein chains. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4609-4618.	2.6	6
750	Detrended fluctuation analysis in natural languages using non-corpus parametrization. Chaos, Solitons and Fractals, 2009, 41, 198-205.	5.1	14
751	Minimizing the effect of exponential trends in detrended fluctuation analysis. Chaos, Solitons and Fractals, 2009, 41, 311-316.	5.1	15
752	Investigating long-range correlation properties in EEG during complex cognitive tasks. Chaos, Solitons and Fractals, 2009, 42, 2067-2073.	5.1	37
753	Chaotic SVD method for minimizing the effect of exponential trends in detrended fluctuation analysis. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 720-726.	2.6	33
754	Study of the human postural control system during quiet standing using detrended fluctuation analysis. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 1857-1866.	2.6	39
755	Assessment of bursting activity and interspike intervals variability: A case study for methodological comparison. Journal of Neuroscience Methods, 2009, 179, 142-149.	2.5	21
756	Ergodicity breakdown and scaling from single sequences. Chaos, Solitons and Fractals, 2009, 39, 895-909.	5.1	10
757	Theoretical basis for identification of different anesthetic states based on routinely recorded EEG during operation. Computers in Biology and Medicine, 2009, 39, 40-45.	7.0	26
758	Short- versus long-term ECG recordings for the assessment of non-linear heart rate variability parameters after beating heart myocardial revascularization. Computers in Biology and Medicine, 2009, 39, 79-87.	7.0	4
759	Examination of persistence properties of wind speed records using detrended fluctuation analysis. Energy, 2009, 34, 1980-1985.	8.8	48
760	Detecting effects of low levels of cytochalasin B in 3T3 fibroblast cultures by analysis of electrical noise obtained from cellular micromotion. Biosensors and Bioelectronics, 2009, 24, 2250-2254.	10.1	35
761	Dispersion of response times reveals cognitive dynamics.. Psychological Review, 2009, 116, 318-342.	3.8	160
762	Chaoticity analysis of the current through pure, hydrogenated and hydrophobically modified PEG-Si thin films under varying relative humidity. Open Physics, 2009, 7, .	1.7	3
763	Analysis of biomedical signals by flicker-noise spectroscopy: Identification of photosensitive epilepsy using magnetoencephalograms. Laser Physics, 2009, 19, 836-854.	1.2	24
764	Methods derived from nonlinear dynamics for analysing heart rate variability. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 277-296.	3.4	435
765	Complexity of cardiovascular regulation in small animals. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 1239-1250.	3.4	20
766	Breathing frequency bias in fractal analysis of heart rate variability. Biological Psychology, 2009, 82, 82-88.	2.2	41

#	Article	IF	Citations
767	Effects of short-term training on heart rate dynamics in individuals with spinal cord injury. Autonomic Neuroscience: Basic and Clinical, 2009, 150, 116-121.	2.8	35
768	Detrended fluctuation analysis of short-term heart rate variability in late pregnant women. Autonomic Neuroscience: Basic and Clinical, 2009, 150, 122-126.	2.8	31
769	Athletic skill level is reflected in body sway: A test case for accelometry in combination with stochastic dynamics. Gait and Posture, 2009, 29, 546-551.	1.4	121
770	1D model validation for the variations in earthâ€™s apparent resistivity of barricelle site (Southern) Tj ETQq1 1 0.784314 rgBT /Overlo	2.9	0
771	Chronic high dose captopril decreases total heart rate variability and increases heart rate in C57BL/6J mice. International Journal of Cardiology, 2009, 136, 211-213.	1.7	6
772	The relative influence of age, previous history and therapeutic strategies prior to hospital admission among ambulance transported patients with ST-elevation myocardial infarction. International Journal of Cardiology, 2009, 136, 213-214.	1.7	2
773	Detrended fluctuation analysis of laser Doppler flowmetry time series. Microvascular Research, 2009, 78, 314-318.	2.5	17
774	Fractal, entropic and chaotic approaches to complex physiological time series analysis: A critical appraisal. , 2009, 2009, 3429-32.		1
775	Is Perceptual Learning Unimodal?. Ecological Psychology, 2009, 21, 37-67.	1.1	12
776	Heart rate variability and nonlinear analysis of heart rate dynamics following single and multiple Wingate bouts. Applied Physiology, Nutrition and Metabolism, 2009, 34, 875-883.	1.9	32
777	Introduction to Controversial Topics in Nonlinear Science: Is the Normal Heart Rate Chaotic?. Chaos, 2009, 19, 028501.	2.5	96
778	Complex Dynamics in Physiological Systems: From Heart to Brain. Understanding Complex Systems, 2009, , .	0.6	19
779	Power law scaling behavior of physiological time series in marathon races using wavelet leaders and detrended fluctuation analysis. Proceedings of SPIE, 2009, , .	0.8	0
780	Gait dynamics in Parkinsonâ€™s disease: Common and distinct behavior among stride length, gait variability, and fractal-like scaling. Chaos, 2009, 19, 026113.	2.5	466
781	Kubios HRV â€” A Software for Advanced Heart Rate Variability Analysis. IFMBE Proceedings, 2009, , 1022-1025.	0.3	88
782	Assessment of non-linear features for intrapartal fetal heart rate classification. , 2009, , .		9
783	DFA on Heartbeat Fluctuation Dynamics in Animal Models and Humans: Alternans Lowers the Scaling Exponent. , 2009, , .		0
784	Clinical impact of evaluation of cardiovascular control by novel methods of heart rate dynamics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 1223-1238.	3.4	154

#	Article	IF	Citations
785	Nonlinear Dynamic Indications in Time Series of Epilepsy Electroencephalogram. , 2009, , .		0
786	The correlation of sunspot data. , 2009, , .		0
787	Fetal heart rate data pre-processing and annotation. , 2009, , .		6
788	Levy models and long correlations applied to the study of exchange traded funds. International Journal of Computer Mathematics, 2009, 86, 1040-1053.	1.8	4
789	A review of diagnosis methods for heart rhythm disorders. , 2009, , .		1
790	Longâ€range temporal correlations of ocean surface currents. Journal of Geophysical Research, 2009, 114, .	3.3	7
791	Nonâ€uniform scaling features in central Italy seismicity: A nonâ€linear approach in investigating seismic patterns and detection of possible earthquake precursors. Geophysical Research Letters, 2009, 36, .	4.0	68
792	Heart Rate Dynamics after Combined Endurance and Strength Training in Older Men. Medicine and Science in Sports and Exercise, 2009, 41, 1436-1443.	0.4	69
793	Traffic Flow Volume Fluctuation Analysis using MF-DFA. , 2009, , .		4
794	Wavelet-based analysis of blood pressure dynamics in rats. Proceedings of SPIE, 2009, , .	0.8	0
795	Spectral Analysis of Gait Variability of Stride Interval Time Series: Comparison of Young, Elderly and Parkinson's Disease Patients. Journal of Physical Therapy Science, 2009, 21, 105-111.	0.6	28
796	Unfolding the procedure of characterizing recorded ultra low frequency, kHZ and MHz electromagetic anomalies prior to the L'Aquila earthquake as pre-seismic ones â€“ Part 1. Natural Hazards and Earth System Sciences, 2009, 9, 1953-1971.	3.6	48
797	An Extra-Systole Arrhythmia Lowers the Scaling Exponent: DFA as a Beneficial Biomedical Tool. , 2009, , .		0
798	Walking changes the dynamics of cognitive estimates of time intervals.. Journal of Experimental Psychology: Human Perception and Performance, 2009, 35, 1532-1541.	0.9	34
799	Detrended Fluctuation Analysis of Temporal Variation of the Center of Pressure (COP) during Quiet Standing in Parkinsonian Patients. Journal of Physical Therapy Science, 2009, 21, 287-292.	0.6	19
800	Discriminating low frequency components from long range persistent fluctuations in daily atmospheric temperature variability. Atmospheric Chemistry and Physics, 2009, 9, 4537-4544.	4.9	13
801	Heart Instantaneous Frequency Based Estimation of HRV from Blood Pressure Waveforms. IEICE Transactions on Information and Systems, 2009, E92-D, 529-537.	0.7	3
802	RAPID PREDICTION OF TRAUMA PATIENT SURVIVAL BY ANALYSIS OF HEART RATE COMPLEXITY. Shock, 2009, 32, 565-571.	2.1	42

#	Article	IF	Citations
803	Autonomic Nervous System Dysfunction and Inflammation Contribute to the Increased Cardiovascular Mortality Risk Associated With Depression. Psychosomatic Medicine, 2010, 72, 626-635.	2.0	156
804	Correlated and uncorrelated heart rate fluctuations during relaxing visualization. Europhysics Letters, 2010, 90, 48003.	2.0	11
805	Scaling properties of excursions in heartbeat dynamics. Europhysics Letters, 2010, 89, 38008.	2.0	12
806	Is heart period variability associated with the administration of lifesaving interventions in individual prehospital trauma patients with normal standard vital signs?*. Critical Care Medicine, 2010, 38, 1666-1673.	0.9	27
807	Differences in complexity of glycemic profile in survivors and nonsurvivors in an intensive care unit: A pilot study*. Critical Care Medicine, 2010, 38, 849-854.	0.9	69
808	TRACKING CENTRAL HYPOVOLEMIA WITH ECG IN HUMANS. Shock, 2010, 33, 583-589.	2.1	45
809	The role of fractality in perceptual learning: Exploration in dynamic touch.. Journal of Experimental Psychology: Human Perception and Performance, 2010, 36, 1161-1173.	0.9	61
810	Oscillating in Synchrony with a Metronome: Serial Dependence, Limit Cycle Dynamics, and Modeling. Motor Control, 2010, 14, 323-343.	0.6	30
811	Detrended fluctuation analysis of scaling crossover effects. Europhysics Letters, 2010, 90, 10009.	2.0	10
812	Lyapunov Exponent and Surrogation Analysis of Patterns of Variability: Profiles in New Walkers With and Without Down Syndrome. Motor Control, 2010, 14, 126-142.	0.6	18
813	Energy and fractal characteristics of physiological and pathological tremors of the human hand. Human Physiology, 2010, 36, 203-210.	0.4	3
814	Time-dependent correlations in electricity markets. Energy Economics, 2010, 32, 269-277.	12.1	39
815	Study of memory effects in international market indices. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 1653-1664.	2.6	22
816	Concurrent sympathetic activation and vagal withdrawal in hyperthyroidism: Evidence from detrended fluctuation analysis of heart rate variability. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 1861-1868.	2.6	6
817	Correlations and cross-correlations in the Brazilian agrarian commodities and stocks. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 2739-2743.	2.6	84
818	Nonlinear dynamics of cardiovascular ageing. Physics Reports, 2010, 488, 51-110.	25.6	315
819	The effect of noise reduction in measuring the linear and nonlinear dependency of financial markets. Nonlinear Analysis: Real World Applications, 2010, 11, 492-502.	1.7	57
820	Effects of autonomic blockade on nonlinear heart rate dynamics. Clinical Autonomic Research, 2010, 20, 241-247.	2.5	25

#	Article	IF	Citations
821	Multiscale Analysis of Heart Rate Variability: A Comparison of Different Complexity Measures. Annals of Biomedical Engineering, 2010, 38, 854-864.	2.5	60
822	Intrinsic Mode Analysis of Human Heartbeat Time Series. Annals of Biomedical Engineering, 2010, 38, 1337-1344.	2.5	16
823	Segmented Symbolic Dynamics for Risk Stratification in Patients with Ischemic Heart Failure. Cardiovascular Engineering and Technology, 2010, 1, 290-298.	1.6	15
824	Spontaneous contractions of isolated rat portal vein under temperature perturbations. Medical and Biological Engineering and Computing, 2010, 48, 887-894.	2.8	2
825	Characterization of common measures of heart period variability in healthy human subjects: implications for patient monitoring. Journal of Clinical Monitoring and Computing, 2010, 24, 61-70.	1.6	25
826	Modeling traffic flow correlation using DFA and DCCA. Nonlinear Dynamics, 2010, 61, 207-216.	5.2	86
827	Heart Rate Variability on 7-Day Holter Monitoring Using a Bootstrap Rhythmometric Procedure. IEEE Transactions on Biomedical Engineering, 2010, 57, 1366-1376.	4.2	18
828	Characterizing Nonlinear Heartbeat Dynamics Within a Point Process Framework. IEEE Transactions on Biomedical Engineering, 2010, 57, 1335-1347.	4.2	45
829	Measurement of Heart Rate Variability Using an Oscillometric Blood Pressure Monitor. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 2575-2590.	4.7	45
830	New York Heart Association Functional class influences the impact of diabetes on cardiac autonomic function. Journal of Electrocardiology, 2010, 43, 379-384.	0.9	7
831	Association of Holter-based measures including T-wave alternans with risk of sudden cardiac death in the community-dwelling elderly: the Cardiovascular Health Study. Journal of Electrocardiology, 2010, 43, 251-259.	0.9	48
832	Fractals for physicians. Paediatric Respiratory Reviews, 2010, 11, 123-131.	1.8	33
833	Exercise modulation of cardiorespiratory variability in humans. Respiratory Physiology and Neurobiology, 2010, 172, 72-80.	1.6	9
834	Role of three key developmental variables in the emergence of long-range temporal correlations in a network of spiking neurons without plasticity. BMC Neuroscience, 2010, 11, .	1.9	0
835	KARDIA: A Matlab software for the analysis of cardiac interbeat intervals. Computer Methods and Programs in Biomedicine, 2010, 98, 83-89.	4.7	82
836	Data series embedding and scale invariant statistics. Human Movement Science, 2010, 29, 449-463.	1.4	5
837	Temporal correlations in center of body mass fluctuations during standing and walking. Human Movement Science, 2010, 29, 556-566.	1.4	9
838	The effect of treadmill walking on the stride interval dynamics of children. Human Movement Science, 2010, 29, 987-998.	1.4	9

#	Article	IF	Citations
839	Detrended fluctuation analysis predicts successful defibrillation for out-of-hospital ventricular fibrillation cardiac arrest. Resuscitation, 2010, 81, 297-301.	3.0	45
840	Investigating fractal property and respiratory modulation of human heartbeat time series using empirical mode decomposition. Medical Engineering and Physics, 2010, 32, 490-496.	1.7	14
841	Variability and stability analysis of walking of transfemoral amputees. Medical Engineering and Physics, 2010, 32, 1009-1014.	1.7	124
842	Analysis of signal fluctuations of Cortical Spreading Depression: Preliminary findings. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 1869-1873.	2.6	6
843	Pinkness of the North Atlantic Oscillation signal revisited. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 5801-5807.	2.6	5
844	Towards a â€œgold-standardâ€•approach to address the presence of long-range auto-correlation in physiological time series. Journal of Neuroscience Methods, 2010, 192, 163-172.	2.5	36
845	Detecting long-range correlations in fire sequences with Detrended fluctuation analysis. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 837-842.	2.6	16
846	Symbolic dynamics of ventricular tachycardia and ventricular fibrillation. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 2096-2100.	2.6	5
847	A fractal comparison of real and Austrian business cycle models. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 2244-2267.	2.6	8
848	Different scaling behaviors in daily temperature records over China. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 4087-4095.	2.6	44
849	Multifractal Detrended Cross-Correlation Analysis of sunspot numbers and river flow fluctuations. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 4942-4957.	2.6	126
850	Preservation of long range temporal correlations under extreme random dilution. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 5573-5580.	2.6	8
851	Detecting characteristics of information masked by a laser-triggered microwave system via Hilbertâ€“Huang transform. Optics Communications, 2010, 283, 1909-1916.	2.1	3
852	Analysis of heat release dynamics in an internal combustion engine using multifractals and wavelets. Applied Energy, 2010, 87, 1736-1743.	10.1	51
853	1/fÎ² noise in a model for weak ergodicity breaking. Chemical Physics, 2010, 375, 370-377.	1.9	4
854	Fractals in the open quantum kicked top model. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 2967-2973.	3.3	2
855	Understanding the statistical persistence of dual-axis swallowing accelerometry signals. Computers in Biology and Medicine, 2010, 40, 839-844.	7.0	7
856	Characterizing the human postural control system using detrended fluctuation analysis. Journal of Computational and Applied Mathematics, 2010, 233, 1478-1482.	2.0	18

#	Article	IF	Citations
857	Autonomic Dysfunction and Newâ€Onset Atrial Fibrillation in Patients With Left Ventricular Systolic Dysfunction After Acute Myocardial Infarction: A CARISMA Substudy. Journal of Cardiovascular Electrophysiology, 2010, 21, 983-990.	1.7	42
858	Predictors of Longâ€Term Risk for Heart Failure Hospitalization after Acute Myocardial Infarction. Annals of Noninvasive Electrocardiology, 2010, 15, 250-258.	1.1	27
859	Exercise and cardiac regulation: what can electrocardiographic time series tell us?. Scandinavian Journal of Medicine and Science in Sports, 2010, 20, 794-804.	2.9	24
861	Linear and nonlinear heart rate dynamics in elderly inpatients. Relations with comorbidity and depression. Medicina (Lithuania), 2010, 46, 393.	2.0	11
862	A Demonstration of the Transition from Ready-to-Hand to Unready-to-Hand. PLoS ONE, 2010, 5, e9433.	2.5	87
863	Spike Avalanches Exhibit Universal Dynamics across the Sleep-Wake Cycle. PLoS ONE, 2010, 5, e14129.	2.5	166
864	Long-range correlation and nonlinearity in geochemical time series of gas discharges from Mt. Etna, and changes with 2001 and 2002â€“2003 eruptions. Nonlinear Processes in Geophysics, 2010, 17, 733-751.	1.3	8
865	Linear and Fractal Heart Rate Dynamics during Sleep at High Altitude. Methods of Information in Medicine, 2010, 49, 521-525.	1.2	14
867	The 6 April 2009 earthquake at L'Aquila: a preliminary analysis of magnetic field measurements. Natural Hazards and Earth System Sciences, 2010, 10, 203-214.	3.6	18
868	Long-term Correlations and Complexity Analysis of the Heart Rate Variability Signal during Sleep. Methods of Information in Medicine, 2010, 49, 479-483.	1.2	17
869	Aging Effects on Cardiac and Respiratory Dynamics in Healthy Subjects across Sleep Stages. Sleep, 2010, 33, 943-955.	1.1	97
870	Fluctuations and determinism of respiratory impedance in asthma and chronic obstructive pulmonary disease. Journal of Applied Physiology, 2010, 109, 1582-1591.	2.5	43
871	The Multi-Dependent Hurst Exponent in Traffic Time Series. Applied Mechanics and Materials, 2010, 20-23, 346-351.	0.2	0
872	The altered complexity of cardiovascular regulation in depressed patients. Physiological Measurement, 2010, 31, 303-321.	2.1	77
873	Multifractal and nonlinear assessment of autonomous nervous system response during transient myocardial ischaemia. Physiological Measurement, 2010, 31, 565-580.	2.1	24
874	Long-range correlations of different EEG derivations in rats: sleep stage-dependent generators may play a key role. Physiological Measurement, 2010, 31, 795-808.	2.1	8
875	Towards a smart glove: Arousal recognition based on textile Electrodermal Response. , 2010, 2010, 3598-601.		28
876	Detrended Fluctuation Analysis Is Considered to Be Useful as a New Indicator for Short-Term Glucose Complexity. Diabetes Technology and Therapeutics, 2010, 12, 775-783.	4.4	25

#	Article	IF	Citations
877	Physical activity and heart rate variability measured simultaneously during waking hours. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H874-H880.	3.2	59
878	Dynamics of electroencephalogram entropy and pitfalls of scaling detection. Physical Review E, 2010, 81, 031909.	2.1	16
879	Effect of extreme data loss on long-range correlated and anticorrelated signals quantified by detrended fluctuation analysis. Physical Review E, 2010, 81, 031101.	2.1	109
880	Linear and nonlinear analysis of autonomic regulation of heart rate variability in healthy first-degree relatives of patients with schizophrenia. , 2010, 2010, 5395-8.		5
881	Effect of significant data loss on identifying electric signals that precede rupture estimated by detrended fluctuation analysis in natural time. Chaos, 2010, 20, 033111.	2.5	18
882	FLUCTUATION ANALYSIS OF MONTHLY RAINFALL TIME SERIES. Fluctuation and Noise Letters, 2010, 09, 219-228.	1.5	3
883	CHARACTERIZATION OF RENAL BLOOD FLOW REGULATION BASED ON WAVELET COEFFICIENTS. Fluctuation and Noise Letters, 2010, 09, 259-270.	1.5	2
884	MODELING CROSS-CORRELATIONS OF TRAFFIC FLOW. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 3323-3328.	1.7	3
885	A COMPARATIVE STUDY OF VALIDITY RANGES OF SOME FRACTAL METHODS OF TIME SERIES ANALYSIS. Fractals, 2010, 18, 235-246.	3.7	7
886	Multifractal properties of ECG patterns of patients suffering from congestive heart failure. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P12021.	2.3	44
887	Long Range Correlation of Hydrophilicity and Flexibility Along the Hemoglobin Chain. , 2010, , .		0
888	Rhythmic Dynamics and Synchronization via Dimensionality Reduction: Application to Human Gait. PLoS Computational Biology, 2010, 6, e1001033.	3.2	37
889	Chaotic Time Series Analysis. Mathematical Problems in Engineering, 2010, 2010, 1-31.	1.1	52
890	Boosting-based discovery of multi-component physiological indicators. , 2010, , .		2
891	Financial networks with static and dynamic thresholds. New Journal of Physics, 2010, 12, 043057.	2.9	49
892	Real-life walking impairment in multiple sclerosis: preliminary comparison of four methods for processing accelerometry data. Multiple Sclerosis Journal, 2010, 16, 868-877.	3.0	41
893	In the Spotlight: Biomedical Signal Processing. IEEE Reviews in Biomedical Engineering, 2010, 3, 10-11.	18.0	3
894	Persistence Models. Atmospheric and Oceanographic Sciences Library, 2010, , 33-64.	0.1	0

#	Article	IF	Citations
895	Dynamics of Excitability over Extended Timescales in Cultured Cortical Neurons. Journal of Neuroscience, 2010, 30, 16332-16342.	3.6	94
896	Applying fractal analysis to heart rate time series of sheep experiencing pain. Physiology and Behavior, 2010, 101, 74-80.	2.1	14
897	Review of Methods for the Evaluation of Human Body Balance. Sport Science Review, 2010, 19, .	0.2	44
898	Advanced measure selection in automatic NREM discrimination based on EEG. , 2010, , .		1
899	Nonlinear Analysis of Ambulatory Activity Patterns in Community-Dwelling Older Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2010, 65A, 197-203.	3.6	51
900	Detecting fractal power-law long-range dependence in pre-sliced cooked pork ham surface intensity patterns using Detrended Fluctuation Analysis. Meat Science, 2010, 86, 289-297.	5.5	11
901	Postural sway parameters in seated balancing; their reliability and relationship with balancing performance. Gait and Posture, 2010, 31, 42-46.	1.4	70
902	An empirical examination of detrended fluctuation analysis for gait data. Gait and Posture, 2010, 31, 336-340.	1.4	93
903	Nonlinear measures on heart rate variability: A clinical tool or not?. Autonomic Neuroscience: Basic and Clinical, 2010, 152, 119-120.	2.8	2
904	Response to â€œTo the Editorâ€• Autonomic Neuroscience: Basic and Clinical, 2010, 152, 121-122.	2.8	0
905	Fractal correlation of heart rate variability in obese children. Autonomic Neuroscience: Basic and Clinical, 2010, 155, 125-129.	2.8	34
906	Human EEG shows long-range temporal correlations of oscillation amplitude in Theta, Alpha and Beta bands across a wide age range. Clinical Neurophysiology, 2010, 121, 1187-1197.	1.5	58
907	Sex differences in linear and nonlinear heart rate variability during early recovery from supramaximal exercise. Applied Physiology, Nutrition and Metabolism, 2010, 35, 439-446.	1.9	51
908	Tracking burst patterns in hippocampal cultures with high-density CMOS-MEAs. Journal of Neural Engineering, 2010, 7, 056001.	3.5	57
909	Nonextensivity and natural time: The case of seismicity. Physical Review E, 2010, 82, 021110.	2.1	114
910	Chaos, Fractals, and Our Concept of Disease. Perspectives in Biology and Medicine, 2010, 53, 584-595.	0.5	31
911	Climate Time Series Analysis. Atmospheric and Oceanographic Sciences Library, 2010, , .	0.1	135
912	Differential heart rate dynamics in transient left ventricular apical and midventricular ballooning. Heart Rhythm, 2010, 7, 1825-1832.	0.7	15

#	Article	IF	Citations
913	Detrended Fluctuation Analysis of uterine electromyography. , 2011, , .		8
914	Relationship between fractal property of gait cycle and severity of Parkinson's disease. , 2011, , .		6
915	Fractional Behavior in Element Grade Series: An Application of Detrended Fluctuation Analysis. , 2011, , .		0
916	Heart rate variability analysis using a ballistocardiogram during Valsalva manoeuvre and post exercise. Physiological Measurement, 2011, 32, 1239-1264.	2.1	43
918	Development of a Protocol for Improving the Clinical Utility of Posturography as a Fall-Risk Screening Tool. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2011, 66A, 228-233.	3.6	52
919	Postural Sway in Patients with Mild to Moderate Parkinson's Disease. International Journal of Neuroscience, 2011, 121, 614-621.	1.6	41
920	Cross-correlation analysis to salt-bridge dynamics in force-induced unfolding of titin kinase. , 2011, , .		0
921	Predicting future risk of asthma exacerbations using individual conditional probabilities. Journal of Allergy and Clinical Immunology, 2011, 127, 1494-1502.e3.	2.9	59
922	Fluctuation phenotyping based on daily fraction of exhaled nitric oxide values in asthmatic children. Journal of Allergy and Clinical Immunology, 2011, 128, 293-300.	2.9	68
923	Short-term heart rate dynamics of women during labor. , 2011, 2011, 1929-32.		4
924	Analysis of the time dynamics in wind records by means of multifractal detrended fluctuation analysis and the Fisherâ€“Shannon information plane. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P07001.	2.3	83
925	Criticality and long-range correlations in time series in classical and quantum systems. Physical Review E, 2011, 84, 016224.	2.1	20
926	Design of the Athlete's Electrocardiogram Monitoring and Evaluation System Based on Wireless Sensor Network. , 2011, , .		5
927	Comparison of fractal and power spectral EEG features: Effects of topography and sleep stages. Brain Research Bulletin, 2011, 84, 359-375.	3.0	49
928	Short-term heart rate dynamics of pregnant women. Autonomic Neuroscience: Basic and Clinical, 2011, 159, 117-122.	2.8	14
929	Fractal scaling properties of heart rate dynamics in persons with Down syndrome. Autonomic Neuroscience: Basic and Clinical, 2011, 161, 110-115.	2.8	6
930	Coupling detrended fluctuation analysis for analyzing coupled nonstationary signals. Physical Review E, 2011, 84, 021138.	2.1	58
931	Fractal scaling of laser Doppler flowmetry time series in patients with essential hypertension. Microvascular Research, 2011, 82, 291-295.	2.5	21

#	Article	IF	Citations
932	Objective Evaluation of the Severity of Parkinsonism Using Power-Law Temporal Auto-Correlation of Activity. , 2011, , .		0
935	Effects of different levels of positive airway pressure on breathing pattern and heart rate variability after coronary artery bypass grafting surgery. Brazilian Journal of Medical and Biological Research, 2011, 44, 38-45.	1.5	17
936	Fractal correlation property of heart rate variability in chronic obstructive pulmonary disease. International Journal of COPD, 2011, 6, 23.	2.3	49
937	Strong Anticipation: Complexity Matching in Interpersonal Coordination. BIO Web of Conferences, 2011, 1, 00058.	0.2	0
938	Heart rate dynamics after exercise in cardiac patients with and without type 2 diabetes. Frontiers in Physiology, 2011, 2, 57.	2.8	11
939	Increased Non-Gaussianity of Heart Rate Variability Predicts Cardiac Mortality after an Acute Myocardial Infarction. Frontiers in Physiology, 2011, 2, 65.	2.8	49
940	Heart Rate Variability and Non-Linear Dynamics in Risk Stratification. Frontiers in Physiology, 2011, 2, 81.	2.8	40
941	Heart Rate Variability ? A Historical Perspective. Frontiers in Physiology, 2011, 2, 86.	2.8	523
942	Noise and Complexity in Human Postural Control: Interpreting the Different Estimations of Entropy. PLoS ONE, 2011, 6, e17696.	2.5	90
943	The Prognostic Value of Non-Linear Analysis of Heart Rate Variability in Patients with Congestive Heart Failureâ€"A Pilot Study of Multiscale Entropy. PLoS ONE, 2011, 6, e18699.	2.5	87
944	Postural Control in Bipolar Disorder: Increased Sway Area and Decreased Dynamical Complexity. PLoS ONE, 2011, 6, e19824.	2.5	47
945	Multichannel Detrended Fluctuation Analysis Reveals Synchronized Patterns of Spontaneous Spinal Activity in Anesthetized Cats. PLoS ONE, 2011, 6, e26449.	2.5	20
946	The Nature and Perception of Fluctuations in Human Musical Rhythms. PLoS ONE, 2011, 6, e26457.	2.5	63
947	Air-chemistry "turbulence": power-law scaling and statistical regularity. Atmospheric Chemistry and Physics, 2011, 11, 8395-8413.	4.9	9
948	Present trends and future directions in the analysis of cardiovascular variability. Journal of Hypertension, 2011, 29, 1285-1288.	0.5	12
949	Nonlinear analyses of self-paced reading. Mental Lexicon, 2011, 6, 245-274.	0.5	13
950	Introductory concepts. , 2011, , 21-42.		0
951	Temporal complexity in clinical manifestations of lung disease. Journal of Applied Physiology, 2011, 110, 1723-1731.	2.5	55

#	Article	IF	Citations
952	Origin of Heart Rate Variability and Turbulence: An Appraisal of Autonomic Modulation of Cardiovascular Function. Frontiers in Physiology, 2011, 2, 95.	2.8	112
953	Modeling autonomic regulation of cardiac function and heart rate variability in human endotoxemia. Physiological Genomics, 2011, 43, 951-964.	2.3	49
954	Breakdown of the Intermediate-Term Fractal Scaling Exponent in Sinus Node Dysfunction - New Method for Non-Invasive Evaluation of Sinus Node Function -. Circulation Journal, 2011, 75, 2775-2780.	1.6	4
955	Sympatho-vagal interaction in the recovery phase of exercise. Clinical Physiology and Functional Imaging, 2011, 31, 272-281.	1.2	37
956	Effects of Postectopic Heart Rate Turbulence on Measures of Heart Rate Variability in Patients after an Acute Myocardial Infarction. Annals of Noninvasive Electrocardiology, 2011, 16, 123-130.	1.1	1
957	Scale exponents of blood pressure and heart rate during autonomic blockade as assessed by detrended fluctuation analysis. Journal of Physiology, 2011, 589, 355-369.	2.9	116
958	Changes of heart and respiratory rate dynamics during weaning from mechanical ventilation: A study of physiologic complexity in surgical critically ill patients. Journal of Critical Care, 2011, 26, 262-272.	2.2	39
959	Scaling behavior of the fluctuations in stream flow at the outlet of karstic watersheds, France. Journal of Hydrology, 2011, 410, 162-168.	5.4	37
960	Fluctuation analysis of the time dynamics of laser distance data measured in the medieval JeronÃ½m Mine (Czech Republic). Physica A: Statistical Mechanics and Its Applications, 2011, 390, 3551-3557.	2.6	3
961	The influence of liquidity on informational efficiency: The case of the Thai Stock Market. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 4426-4432.	2.6	27
962	Approaching complexity by stochastic methods: From biological systems to turbulence. Physics Reports, 2011, 506, 87-162.	25.6	258
963	Scaling analysis of baseline dual-axis cervical accelerometry signals. Computer Methods and Programs in Biomedicine, 2011, 103, 113-120.	4.7	5
964	Epileptic EEG classification based on extreme learning machine and nonlinear features. Epilepsy Research, 2011, 96, 29-38.	1.6	263
965	Electrocardiogram analysis using a combination of statistical, geometric, and nonlinear heart rate variability features. Artificial Intelligence in Medicine, 2011, 51, 175-186.	6.5	91
966	Human movement variability, nonlinear dynamics, and pathology: Is there a connection?. Human Movement Science, 2011, 30, 869-888.	1.4	700
967	Dynamics of TGF-Î² induced epithelial-to-mesenchymal transition monitored by Electric Cell-Substrate Impedance Sensing. Biochimica Et Biophysica Acta - Molecular Cell Research, 2011, 1813, 2099-2107.	4.1	33
968	Fractal 1/Æ' dynamics suggest entanglement of measurement and human performance.. Journal of Experimental Psychology: Human Perception and Performance, 2011, 37, 935-948.	0.9	60
969	Digital filtering and time-and-frequency analysis of nonstationary signals on the basis of wavelets and empirical modes. Journal of Communications Technology and Electronics, 2011, 56, 1098-1104.	0.5	6

#	Article	IF	Citations
970	Transfer of calibration between hand and foot: Functional equivalence and fractal fluctuations. Attention, Perception, and Psychophysics, 2011, 73, 1302-1328.	1.3	55
971	Long-range correlation properties in motor timing are individual and task specific. Psychonomic Bulletin and Review, 2011, 18, 339-346.	2.8	33
972	Evidence for changes in the dynamics of Earth crust tilts caused by the large dam construction and reservoir filling atÂtheÂEnguri dam international test area (Georgia). Nonlinear Dynamics, 2011, 66, 523-529.	5.2	2
973	Prompt prediction of successful defibrillation from 1-s ventricular fibrillation waveform in patients with out-of-hospital sudden cardiac arrest. Journal of Anesthesia, 2011, 25, 34-41.	1.7	22
974	Complex system approach to interpretation of monitoring time series: two case histories from NW Bohemia. Landslides, 2011, 8, 207-220.	5.4	5
975	Dynamic Assessment of Baroreflex Control of Heart Rate During Induction of Propofol Anesthesia Using a Point Process Method. Annals of Biomedical Engineering, 2011, 39, 260-276.	2.5	46
976	Optimal Timing in Screening Patients with Congestive Heart Failure and Healthy Subjects During Circadian Observation. Annals of Biomedical Engineering, 2011, 39, 835-849.	2.5	14
977	Long-Term Tracking of a Patientâ€™s Health Condition Based on Pulse Rate Dynamics During Sleep. Annals of Biomedical Engineering, 2011, 39, 2922-2934.	2.5	11
978	Comparison of gait and cognitive function among the elderly with Alzheimerâ€™s Disease, Mild Cognitive Impairment and Healthy. International Journal of Precision Engineering and Manufacturing, 2011, 12, 169-173.	2.2	25
979	Gas-liquid two phase flow pattern evolution characteristics based on detrended fluctuation analysis. Mapan - Journal of Metrology Society of India, 2011, 26, 255-265.	1.5	1
980	Multivariate short-term heart rate variability: a pre-diagnostic tool for screening heart disease. Medical and Biological Engineering and Computing, 2011, 49, 41-50.	2.8	27
981	Asymmetric properties of long-term and total heart rate variability. Medical and Biological Engineering and Computing, 2011, 49, 1289-1297.	2.8	68
983	Adaptive time-varying detrended fluctuations analysis: a new method for characterizing time-varying scaling parameters in physiological time series. BMC Neuroscience, 2011, 12, .	1.9	2
984	Study of multiparameter respiratory pattern complexity in surgical critically ill patients during weaning trials. BMC Physiology, 2011, 11, 2.	3.6	24
985	Nonlinear Heart Rate Variability features for real-life stress detection. Case study: students under stress due to university examination. BioMedical Engineering OnLine, 2011, 10, 96.	2.7	239
986	On the feasibility of tilt test outcome early prediction using ECG and pressure parameters. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.7	7
987	Gait stability and variability measures show effects of impaired cognition and dual tasking in frail people. Journal of NeuroEngineering and Rehabilitation, 2011, 8, 2.	4.6	207
988	Global memory analysis in observed and simulated CAPE and CIN. International Journal of Climatology, 2011, 31, 1099-1107.	3.5	11

#	Article	IF	Citations
989	Heart rate variability as a measure of cardiac autonomic function in anorexia nervosa: A review of the literature. European Eating Disorders Review, 2011, 19, 87-99.	4.1	94
990	Characteristics of the prices of operating reserves and regulation services in competitive electricity markets. Energy Policy, 2011, 39, 3210-3221.	8.8	27
991	Strong anticipation: Multifractal cascade dynamics modulate scaling in synchronization behaviors. Chaos, Solitons and Fractals, 2011, 44, 160-168.	5.1	100
992	Nonlinear correlations in the hydrophobicity and average flexibility along the glycolytic enzymes sequences. Chaos, Solitons and Fractals, 2011, 44, 191-197.	5.1	3
993	Time-scaling properties of city fires. Chaos, Solitons and Fractals, 2011, 44, 558-568.	5.1	11
994	Memory effect and multifractality of cross-correlations in financial markets. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 828-836.	2.6	12
995	Scaling characteristics of ocean wave height time series. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 981-989.	2.6	12
996	The scaling behavior of hand motions reveals self-organization during an executive function task. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 1539-1545.	2.6	19
997	Study of cross-correlation in a self-affine time series of taxi accidents. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 1677-1683.	2.6	43
998	Multifractal moving average analysis and test of multifractal model with tuned correlations. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 2637-2654.	2.6	82
999	Understanding as well as characterization of erratic interspike dynamics in semiconductor devices. Solid State Communications, 2011, 151, 135-138.	1.9	1
1000	Investigation of acoustic emission accompanying stick-slip movement of rock samples at different stiffnesses of springâ€“block system. Tribology International, 2011, 44, 811-819.	5.9	11
1001	Scale-specific order parameter fluctuations of seismicity in natural time before mainshocks. Europhysics Letters, 2011, 96, 59002.	2.0	99
1002	Scaling Differences of Heartbeat Excursions Between Wake and Sleep Periods. Methods in Enzymology, 2011, 487, 409-429.	1.0	3
1003	EVALUATION OF SLEEP BY DETRENDED FLUCTUATION ANALYSIS OF THE HEARTBEAT. AIP Conference Proceedings, 2011, , .	0.4	3
1004	PyEEG: An Open Source Python Module for EEG/MEG Feature Extraction. Computational Intelligence and Neuroscience, 2011, 2011, 1-7.	1.7	111
1005	Cardiovascular Responses During Hypoventilation at Exercise. International Journal of Sports Medicine, 2011, 32, 438-445.	1.7	23
1006	Financial factor influence on scaling and memory of trading volume in stock market. Physical Review E, 2011, 84, 046112.	2.1	36

#	Article	IF	Citations
1007	Long-range correlation in cosmic microwave background radiation. Physical Review E, 2011, 84, 021103.	2.1	24
1008	Advances in monitoring cardiovascular signals. Contribution of nonlinear signal processing. , 2011, 2011, 6568-71.		7
1009	Obtaining information by dynamic (effortful) touching. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 3123-3132.	4.0	93
1010	Fractal analysis of behaviour in a wild primate: behavioural complexity in health and disease. Journal of the Royal Society Interface, 2011, 8, 1497-1509.	3.4	62
1011	Detrended fluctuation analysis of membrane flickering in discocyte and spherocyte red blood cells using quantitative phase microscopy. Journal of Biomedical Optics, 2011, 16, 076009.	2.6	9
1012	Detrended cross-correlation analysis for non-stationary time series with periodic trends. Europhysics Letters, 2011, 94, 18007.	2.0	290
1013	The effect of ventricular assist devices on cerebral blood flow and blood pressure fractality. Physiological Measurement, 2011, 32, 1361-1372.	2.1	5
1014	Hemodynamic Monitoring Today. Anesthesiology Research and Practice, 2011, 2011, 1-2.	0.7	1
1015	Clinical Applications of Heart Rate Variability in the Triage and Assessment of Traumatically Injured Patients. Anesthesiology Research and Practice, 2011, 2011, 1-8.	0.7	44
1016	Degeneracy and long-range correlation: A simulation study. BIO Web of Conferences, 2011, 1, 00020.	0.2	5
1017	Scale-Free Modulation of Resting-State Neuronal Oscillations Reflects Prolonged Brain Maturation in Humans. Journal of Neuroscience, 2011, 31, 13128-13136.	3.6	80
1018	Approximate Entropy Values Demonstrate Impaired Neuromotor Control of Spontaneous Leg Activity in Infants With Myelomeningocele. Pediatric Physical Therapy, 2011, 23, 241-247.	0.6	24
1019	Detrended Fluctuation Analysis of Arrhythmia: Scaling Exponent as an Index of Heart Wellness. , 2011, , .		0
1020	The study of the correlation properties on RBC flickering using double-path interferometric quantitative phase microscopy. Proceedings of SPIE, 2011, , .	0.8	0
1021	ELECTROMYOGRAPHY (EMG) SIGNAL CLASSIFICATION BASED ON DETRENDED FLUCTUATION ANALYSIS. Fluctuation and Noise Letters, 2011, 10, 281-301.	1.5	33
1022	Aging in autonomic control by multifractal studies of cardiac interbeat intervals in the VLF band. Physiological Measurement, 2011, 32, 1681-1699.	2.1	20
1023	Complexity and Emergent Phenomena. , 2011, 1, 995-1029.		25
1024	The rise of hemodialysis machines: new technologies in minimizing cardiovascular complications. Expert Review of Cardiovascular Therapy, 2011, 9, 155-164.	1.5	22

#	Article	IF	Citations
1025	Research on long memory of realized volatility measurements in China Stock Market. , 2011, , .		0
1026	Effect of beta-blockers on the heart rhythm complexity in children. , 2011, , .		0
1027	THE ORTHOGONAL V-SYSTEM DETRENDED FLUCTUATION ANALYSIS. Fluctuation and Noise Letters, 2011, 10, 189-206.	1.5	4
1028	DOUBLE POWER-LAW DEGREE DISTRIBUTION AND INFORMATIONAL ENTROPY IN URBAN ROAD NETWORKS. International Journal of Modern Physics C, 2011, 22, 13-20.	1.7	5
1029	DIFFICULTIES IN THE USE OF DFA TO CHARACTERIZE PETROLEUM RESERVOIRS. International Journal of Modern Physics C, 2011, 22, 123-131.	1.7	4
1030	EFFECT OF LINEAR AND NONLINEAR FILTERS ON MULTIFRACTAL DETRENDED CROSS-CORRELATION ANALYSIS. Fractals, 2011, 19, 443-453.	3.7	28
1031	Disentangling stability, variability and adaptability in human performance: Focus on the interplay between local variance and serial correlation.. Journal of Experimental Psychology: Human Perception and Performance, 2011, 37, 539-550.	0.9	21
1032	Transition from Persistent to Anti-Persistent Correlations in Postural Sway Indicates Velocity-Based Control. PLoS Computational Biology, 2011, 7, e1001089.	3.2	108
1033	Reading multifractal spectra: Aging by multifractal analysis of heart rate. Europhysics Letters, 2011, 94, 68005.	2.0	25
1034	Associations between fluctuations in lung function and asthma control in two populations with differing asthma severity. Thorax, 2011, 66, 1036-1042.	5.6	33
1035	The Origin of Behavioral Bursts in Decision-Making Circuitry. PLoS Computational Biology, 2011, 7, e1002075.	3.2	33
1036	Effects of Isometric Handgrip Protocol on Blood Pressure and Neurocardiac Modulation. International Journal of Sports Medicine, 2011, 32, 174-180.	1.7	29
1037	Cardiovascular Autonomic Nervous System Function and Aerobic Capacity in Type 1 Diabetes. Frontiers in Physiology, 2012, 3, 356.	2.8	21
1038	Introduction to Multifractal Detrended Fluctuation Analysis in Matlab. Frontiers in Physiology, 2012, 3, 141.	2.8	587
1039	Fast synthesis of persistent fractional Brownian motion. ACM Transactions on Modeling and Computer Simulation, 2012, 22, 1-21.	0.8	3
1040	Quantifying Fractal Dynamics of Metallogenic Systems with Detrended Fluctuation Analysis. Applied Mechanics and Materials, 2012, 249-250, 26-30.	0.2	1
1041	Role of editing of Râ€“R intervals in the analysis of heart rate variability. Frontiers in Physiology, 2012, 3, 148.	2.8	210
1042	Remote Sensing and Atmospheric Ozone. , 2012, , .		7

#	Article	IF	Citations
1043	Nonlinear Measures of Heart Rate Variability and Mortality Risk in Hemodialysis Patients. Clinical Journal of the American Society of Nephrology: CJASN, 2012, 7, 1454-1460.	4.5	66
1044	Relative clock verifies endogenous bursts of human dynamics. Europhysics Letters, 2012, 97, 18006.	2.0	33
1045	An integrated data mining approach to real-time clinical monitoring and deterioration warning. , 2012, , .		45
1046	Characterization of detrended fluctuation analysis in the context of glycemic time series. , 2012, 2012, 4225-8.		1
1047	Comparative study between Sample Entropy and Detrended Fluctuation Analysis performance on EEG records under data loss. , 2012, 2012, 4233-6.		5
1048	Monitoring of premonitories septic shock in heart-rate variability. , 2012, , .		0
1049	Evaluation of scale invariance in physiological signals by means of balanced estimation of diffusion entropy. Physical Review E, 2012, 86, 056107.	2.1	22
1050	Predictability of the coherent-noise model and its applications. Physical Review E, 2012, 85, 051136.	2.1	8
1051	A new process for modeling heartbeat signals during exhaustive run with an adaptive estimator of its fractal parameters. Journal of Applied Statistics, 2012, 39, 1331-1351.	1.3	8
1052	Autonomic markers and cardiovascular and arrhythmic events in heart failure patients: still a place in prognostication? Data from the GISSIâ€HF trial. European Journal of Heart Failure, 2012, 14, 1410-1419.	7.1	64
1053	Evaluation of severity of Parkinson's disease using stride interval variability. , 2012, , .		3
1054	Multiscale multifractal analysis of heart rate variability recordings with a large number of occurrences of arrhythmia. Physical Review E, 2012, 85, 021915.	2.1	125
1055	Fractal Analysis of EEG Upon Auditory Stimulation During Waking and Hypnosis in Healthy Volunteers. International Journal of Clinical and Experimental Hypnosis, 2012, 60, 266-285.	1.8	8
1056	CORRELATIONS AND MULTIFRACTALITY IN AN EARTHQUAKE MODEL ON ASSORTATIVE SCALE-FREE NETWORKS FROM MONO- AND MULTI-FRACTAL ANALYSES. International Journal of Modern Physics C, 2012, 23, 1250070.	1.7	0
1057	STATISTICS OF EXTREME VARIATIONS OF RR HEARTBEAT INTERVALS. Fluctuation and Noise Letters, 2012, 11, 1240015.	1.5	1
1058	Linear and Nonlinear Heart Rate Variability Indexes in Clinical Practice. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-5.	1.3	73
1059	Two-Dimensional Matrix Algorithm Using Detrended Fluctuation Analysis to Distinguish Burkitt and Diffuse Large B-Cell Lymphoma. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-8.	1.3	5
1060	Scale-specific order parameter fluctuations of seismicity before mainshocks: Natural time and Detrended Fluctuation Analysis. Europhysics Letters, 2012, 99, 59001.	2.0	41

#	Article	IF	Citations
1061	Quantifying meta-correlations in financial markets. Europhysics Letters, 2012, 99, 38001.	2.0	32
1062	Endotoxemia is Associated With Partial Uncoupling of Cardiac Pacemaker From Cholinergic Neural Control in Rats. Shock, 2012, 37, 219-227.	2.1	61
1063	Scale Invariance, Self Similarity and Critical Behavior in Classical and Quantum Systems. Journal of Physics: Conference Series, 2012, 380, 012020.	0.4	9
1064	A method for analyzing temporal patterns of variability of a time series from PoincarÃ© plots. Journal of Applied Physiology, 2012, 113, 297-306.	2.5	58
1065	Study of Heart Rate Variability in bipolar disorder: linear and nonlinear parameters during sleep. Frontiers in Neuroengineering, 2011, 4, 22.	4.8	27
1066	Rambling and Trembling in Response to Body Loading. Motor Control, 2012, 16, 144-157.	0.6	27
1067	Gait Variability Measures Reveal Differences Between Multiple Sclerosis Patients and Healthy Controls. Motor Control, 2012, 16, 229-244.	0.6	89
1068	Methodological Aspects of Heart Rate Variability Analysis. , 2012, , 9-42.		21
1069	The Role of Nonlinear Dynamics in Affective Valence and Arousal Recognition. IEEE Transactions on Affective Computing, 2012, 3, 237-249.	8.3	186
1070	Correlations in Complex Systems. , 2012, , 705-723.		1
1071	Diagnosis algorithm of sleep apnea syndrome. , 2012, , .		0
1072	Fractal temporal organisation of motricity is altered in major depression. Psychiatry Research, 2012, 200, 288-293.	3.3	18
1073	Analysis of seismic sequences by using the method of visibility graph. Europhysics Letters, 2012, 97, 50002.	2.0	94
1074	Multifractal characterisation of electrocardiographic RR and QT time-series before and after progressive exercise. Computer Methods and Programs in Biomedicine, 2012, 108, 176-185.	4.7	12
1075	Effect of interpersonal synchrony on gait fluctuation characteristics: An analysis of synchronization gait assist system. , 2012, , .		1
1076	Attentional and emotional tasks: gender differences in heart rate variability detected by short-term detrended fluctuation analysis. , 2012, , .		0
1077	Short-term heart rate variabilityâ€"age dependence in healthy subjects. Physiological Measurement, 2012, 33, 1289-1311.	2.1	90
1078	Classification of Parkinson's disease patients' gait variability. , 2012, , .		3

#	Article	IF	Citations
1079	Forecasting Depression in Bipolar Disorder. IEEE Transactions on Biomedical Engineering, 2012, 59, 2801-2807.	4.2	33
1080	The time-singularity multifractal spectrum distribution. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 4727-4739.	2.6	37
1081	Universal scaling behaviors of meteorological variablesâ€™ volatility and relations with original records. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 4953-4962.	2.6	8
1082	The spectral content of postural sway during quiet stance: Influences of age, vision and somatosensory inputs. Journal of Electromyography and Kinesiology, 2012, 22, 131-136.	1.7	64
1083	The autonomic condition of children with congenital hypothyroidism as indicated by the analysis of heart rate variability. Autonomic Neuroscience: Basic and Clinical, 2012, 167, 7-11.	2.8	1
1084	Multiscale entropy and detrended fluctuation analysis of QT interval and heart rate variability during normal pregnancy. Computers in Biology and Medicine, 2012, 42, 347-352.	7.0	54
1085	Fetal development assessed by heart rate patternsâ€”Time scales of complex autonomic control. Computers in Biology and Medicine, 2012, 42, 335-341.	7.0	22
1086	Heart rate turbulence during acute alcohol withdrawal syndrome. Drug and Alcohol Dependence, 2012, 122, 253-257.	3.2	4
1087	A comparative analysis of the informational efficiency of the fixed income market in seven European countries. Economics Letters, 2012, 116, 426-428.	1.9	39
1088	Characteristics of temporal fluctuation of the vertical ground reaction force during quiet stance in Parkinson's disease. Gait and Posture, 2012, 35, 308-311.	1.4	29
1089	Gait dynamics following variable and constant speed gait training in individuals with chronic stroke. Gait and Posture, 2012, 36, 332-334.	1.4	20
1090	Estimation of the Hurst exponent from noisy data: a Bayesian approach. European Physical Journal B, 2012, 85, 1.	1.5	6
1091	Scaling behavior of online human activity. Europhysics Letters, 2012, 100, 48004.	2.0	25
1092	Representative Segment-Based Emotion Analysis and Classification with Automatic Respiration Signal Segmentation. IEEE Transactions on Affective Computing, 2012, 3, 482-495.	8.3	28
1093	Detrended Fluctuation Analysis: A Scale-Free View on Neuronal Oscillations. Frontiers in Physiology, 2012, 3, 450.	2.8	328
1094	A wavelet-based estimating depth of anesthesia. Engineering Applications of Artificial Intelligence, 2012, 25, 1710-1722.	8.1	26
1095	Attenuation of long-range temporal correlations in the amplitude dynamics of alpha and beta neuronal oscillations in patients with schizophrenia. NeuroImage, 2012, 61, 162-169.	4.2	106
1096	The fractal energy measurement and the singularity energy spectrum analysis. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 6347-6361.	2.6	14

#	Article	IF	Citations
1097	Heart rate variability: Linear and non-linear analysis of pre-awake period for normal and intrauterine growth restricted children at 10 year. Measurement: Journal of the International Measurement Confederation, 2012, 45, 2096-2102.	5.0	7
1098	A novel EDA glove based on textile-integrated electrodes for affective computing. Medical and Biological Engineering and Computing, 2012, 50, 1163-1172.	2.8	49
1099	Heart rate variability and nonlinear dynamic analysis in patients with stress-induced cardiomyopathy. Medical and Biological Engineering and Computing, 2012, 50, 1037-1046.	2.8	20
1100	Heart rate dynamics during acute pain in newborns. Pflugers Archiv European Journal of Physiology, 2012, 464, 593-599.	2.8	23
1101	Detection of a long-range correlation with an adaptive detrending method. Physical Review E, 2012, 86, 011135.	2.1	2
1102	Strong anticipation: complexity matching in interpersonal coordination. Experimental Brain Research, 2012, 222, 137-148.	1.5	87
1103	Use of Motor Abundance in Young and Older Adults during Dual-Task Treadmill Walking. PLoS ONE, 2012, 7, e41306.	2.5	32
1104	Motor Deficits in Schizophrenia Quantified by Nonlinear Analysis of Postural Sway. PLoS ONE, 2012, 7, e41808.	2.5	59
1105	Scale-Free Brain-Wave Music from Simultaneously EEG and fMRI Recordings. PLoS ONE, 2012, 7, e49773.	2.5	41
1106	A Unified Point Process Probabilistic Framework to Assess Heartbeat Dynamics and Autonomic Cardiovascular Control. Frontiers in Physiology, 2012, 3, 4.	2.8	7
1107	Non-Gaussianity of Low Frequency Heart Rate Variability and Sympathetic Activation: Lack of Increases in Multiple System Atrophy and Parkinson Disease. Frontiers in Physiology, 2012, 3, 34.	2.8	32
1108	Autonomic regulation during quiet and active sleep states in very preterm neonates. Frontiers in Physiology, 2012, 3, 61.	2.8	20
1109	Are There Pre-Seismic Electromagnetic Precursors? A Multidisciplinary Approach. , 2012, , .		7
1110	Effect of Rotating Acoustic Stimulus on Heart Rate Variability in Healthy Adults. The Open Neurology Journal, 2012, 6, 71-77.	0.4	17
1111	Scale depending variations of distribution and dynamic features of US Dollar/Georgian Lari exchange rate. Model Assisted Statistics and Applications, 2012, 7, 281-289.	0.3	0
1112	Detrended Fluctuation Analysis Features for Automated Sleep Staging of Sleep EEG. International Journal of Systems Biology and Biomedical Technologies, 2012, 1, 47-59.	0.2	3
1113	Investigating the time-scaling behavior of the 2004â€“2010 seismicity of Aswan area (Egypt) by means of the Allan factor statistics and the detrended fluctuation analysis. Natural Hazards and Earth System Sciences, 2012, 12, 1267-1276.	3.6	19
1114	Influence of Hypoxia and Hypercapnia on Sleep State-Dependent Heart Rate Variability Behavior in Newborn Lambs. Sleep, 2012, 35, 1541-9.	1.1	17

#	Article	IF	Citations
1115	Power spectrum scale invariance identifies prefrontal dysregulation in paranoid schizophrenia. Human Brain Mapping, 2012, 33, 1582-1593.	3.6	21
1116	Multifractal Detrended Cross-Correlation Analysis of BVP model time series. Nonlinear Dynamics, 2012, 69, 263-273.	5.2	29
1117	ARTdECOS, adaptive evolving connectionist model and application to heart rate variability. Evolving Systems, 2012, 3, 95-109.	3.9	4
1118	The inflow of sensory information for the control of standing is graded and bidirectional. Experimental Brain Research, 2012, 218, 111-118.	1.5	11
1119	Amplitude requirements, visual information, and the spatial structure of movement. Experimental Brain Research, 2012, 220, 297-310.	1.5	10
1120	Effect of extreme value loss on long-term correlated time series. Theoretical and Applied Climatology, 2012, 109, 133-140.	2.8	4
1121	Subarea characteristics of the long-range correlations and the index Ï‡ for daily temperature records over China. Theoretical and Applied Climatology, 2012, 109, 261-270.	2.8	11
1122	Isometric handgrip training lowers blood pressure and increases heart rate complexity in medicated hypertensive patients. Scandinavian Journal of Medicine and Science in Sports, 2013, 23, 620-626.	2.9	74
1123	Analysis of heart rate variability for predicting cardiorespiratory events in infants. Biomedical Signal Processing and Control, 2012, 7, 325-332.	5.7	6
1124	Time dynamics in the point process modeling of seismicity of Aswan area (Egypt). Chaos, Solitons and Fractals, 2012, 45, 47-55.	5.1	15
1125	Effect of missing RR-interval data on nonlinear heart rate variability analysis. Computer Methods and Programs in Biomedicine, 2012, 106, 210-218.	4.7	23
1126	Fractal analysis features for weak and single-channel upper-limb EMG signals. Expert Systems With Applications, 2012, 39, 11156-11163.	7.6	80
1127	Fractal and nonlinear changes in the long-term baseline fluctuations of fetal heart rate. Medical Engineering and Physics, 2012, 34, 466-471.	1.7	11
1128	The lack of long-range negative correlations in glucose dynamics is associated with worse glucose control in patients with diabetes mellitus. Metabolism: Clinical and Experimental, 2012, 61, 1041-1050.	3.4	23
1129	Retrospective investigation of geomagnetic field time-series during the 2009 L'Aquila seismic sequence. Tectonophysics, 2012, 530-531, 310-317.	2.2	14
1130	Scaling behaviors of transient noise current in organic field-effect transistors. Organic Electronics, 2012, 13, 1370-1376.	2.6	5
1131	An independent test of methods of detecting system states and bifurcations in time-series data. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 485-496.	2.6	21
1132	Long-term correlations in hourly wind speed records in Pernambuco, Brazil. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 1546-1552.	2.6	35

#	Article	IF	Citations
1133	Randomness and changes of heart rate and respiratory frequency during high altitude mountain ascent without acclimatization. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 1575-1590.	2.6	2
1134	Analysis of cross-correlations in electroencephalogram signals as an approach to proactive diagnosis of schizophrenia. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 1179-1194.	2.6	44
1135	DCCA cross-correlation coefficient apply in time series of air temperature and air relative humidity. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 2438-2443.	2.6	152
1136	An investigation of Forex market efficiency based on detrended fluctuation analysis: A case study for Iran. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 3170-3179.	2.6	26
1137	Dynamics of bidâ€“ask spread return and volatility of the Chinese stock market. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 2656-2666.	2.6	11
1138	Assessment of autonomic control of the heart during transient myocardial ischemia. Journal of Electrocardiology, 2012, 45, 82-89.	0.9	8
1139	Scaling features of ambient noise at different levels of local seismic activity: A case study for the Oni seismic station. Acta Geophysica, 2012, 60, 809-832.	2.0	4
1140	Longâ€range temporal correlations in the subthalamic nucleus of patients with Parkinsonâ€™s disease. European Journal of Neuroscience, 2012, 36, 2812-2821.	2.6	40
1141	Impacts of riparian zone plant water use on temporal scaling of groundwater systems. Hydrological Processes, 2012, 26, 1352-1360.	2.6	17
1142	Investigations into the Correlation Properties of Membrane Electroporation-Induced Inward Currents: Prediction of Pore Formation. Cell Biochemistry and Biophysics, 2012, 62, 211-220.	1.8	9
1143	Long-term Persistence of Stream Nitrate Concentrations (Memory Effect) Inferred from Spectral Analysis and Detrended Fluctuation Analysis. Water, Air, and Soil Pollution, 2012, 223, 241-252.	2.4	6
1144	Noninvasive Epileptic Seizure Localization from Stochastic Behavior of Short Duration Interictal High Density Scalp EEG Data. Brain Topography, 2012, 25, 106-115.	1.8	9
1145	Heart rate variability and pre-competitive anxiety in BMX discipline. European Journal of Applied Physiology, 2012, 112, 113-123.	2.5	70
1146	Multifractal detrended cross-correlation analysis for power markets. Nonlinear Dynamics, 2013, 72, 353-363.	5.2	72
1147	Correlation properties of spontaneous motor activity in healthy infants: a new computer-assisted method to evaluate neurological maturation. Experimental Brain Research, 2013, 227, 433-446.	1.5	44
1148	Automated Sleep Staging Using Detrended Fluctuation Analysis of Sleep EEG. Advances in Intelligent Systems and Computing, 2013, , 501-510.	0.6	6
1150	Temporal fractals in seabird foraging behaviour: diving through the scales of time. Scientific Reports, 2013, 3, 1884.	3.3	33
1151	Ischemic risk stratification by means of multivariate analysis of the heart rate variability. Physiological Measurement, 2013, 34, 325-338.	2.1	14

#	Article	IF	Citations
1152	Physiologic and laboratory correlates of depression, anxiety, and poor sleep in liver cirrhosis. BMC Gastroenterology, 2013, 13, 18.	2.0	21
1153	Heart rate variability in sciatica patients referred to spine surgery: a case control study. BMC Musculoskeletal Disorders, 2013, 14, 149.	1.9	16
1154	Quantifying different degrees of coupling in detrended cross-correlation analysis. Europhysics Letters, 2013, 101, 20011.	2.0	36
1155	Gait Variability is Altered in Older Adults When Listening to Auditory Stimuli with Differing Temporal Structures. Annals of Biomedical Engineering, 2013, 41, 1595-1603.	2.5	88
1156	Biofeedback Training Effects on Minimum Toe Clearance Variability During Treadmill Walking. Annals of Biomedical Engineering, 2013, 41, 1661-1669.	2.5	16
1157	Fractal Fluctuations in Quiet Standing Predict the Use of Mechanical Information for Haptic Perception. Annals of Biomedical Engineering, 2013, 41, 1625-1634.	2.5	40
1158	Identifying Multiplicative Interactions Between Temporal Scales of Human Movement Variability. Annals of Biomedical Engineering, 2013, 41, 1635-1645.	2.5	14
1159	Dynamics of Revolution Time Variability in Cycling Pattern: Voluntary Intent Can Alter the Long-Range Autocorrelations. Annals of Biomedical Engineering, 2013, 41, 1604-1612.	2.5	15
1160	Revealing the surface interface correlations in a-Si:H films by 2D detrended fluctuation analysis. Semiconductors, 2013, 47, 365-371.	0.5	15
1161	An application of fractional differintegration to heart rate variability time series. Computer Methods and Programs in Biomedicine, 2013, 111, 33-40.	4.7	13
1162	Development of multiscale complexity and multifractality of fetal heart rate variability. Autonomic Neuroscience: Basic and Clinical, 2013, 178, 29-36.	2.8	47
1163	Progress in physical properties of Chinese stock markets. Frontiers of Physics, 2013, 8, 438-450.	5.0	6
1164	Detrended fluctuation analysis of blood pressure in preterm infants with intraventricular hemorrhage. Medical and Biological Engineering and Computing, 2013, 51, 1051-1057.	2.8	8
1165	Effects of fetal respiratory movements on the short-term fractal properties of heart rate variability. Medical and Biological Engineering and Computing, 2013, 51, 441-448.	2.8	9
1166	Fractal dynamics in chaotic quantum transport. Physical Review E, 2013, 88, 022913.	2.1	19
1167	Fluctuation in e-mail sizes weakens power-law correlations in e-mail flow. European Physical Journal B, 2013, 86, 1.	1.5	2
1168	Heart rate variability during sleep and subsequent sleepiness in patients with chronic fatigue syndrome. Autonomic Neuroscience: Basic and Clinical, 2013, 176, 85-90.	2.8	17
1169	Using Detrended Cross-Correlation Analysis in geophysical data. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 2195-2201.	2.6	57

#	Article	IF	Citations
1170	On the scaling ranges of detrended fluctuation analysis for long-term memory correlated short series of data. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 2384-2397.	2.6	39
1171	Long-range correlations identified in time-series of volcano seismicity during dome-forming eruptions using detrended fluctuation analysis. Journal of Volcanology and Geothermal Research, 2013, 264, 197-209.	2.1	12
1172	A Review of Heart Rate Variability and its Applications. APCBEE Procedia, 2013, 7, 80-85.	0.5	86
1173	Time-scaling Properties of High-casualty Fires in China. Procedia Engineering, 2013, 62, 602-608.	1.2	0
1174	Characterisation of linear predictability and non-stationarity of subcutaneous glucose profiles. Computer Methods and Programs in Biomedicine, 2013, 110, 260-267.	4.7	17
1175	Soft Computing Applications. Advances in Intelligent Systems and Computing, 2013, , .	0.6	6
1176	Investigating the interaction between heart rate variability and sleep EEG using nonlinear algorithms. Journal of Neuroscience Methods, 2013, 219, 233-239.	2.5	24
1177	Information Technology in Bio- and Medical Informatics. Lecture Notes in Computer Science, 2013, , .	1.3	3
1178	Analysis of Intracranial Pressure. Neuroscientist, 2013, 19, 592-603.	3.5	34
1179	The effect of a first-generation H1-antihistamine on postural control: a preliminary study in healthy volunteers. Experimental Brain Research, 2013, 231, 257-266.	1.5	4
1180	Exergaming for balance training of elderly: state of the art and future developments. Journal of NeuroEngineering and Rehabilitation, 2013, 10, 101.	4.6	195
1181	The soluble guanylate cyclase activator BAY 58-2667 protects against morbidity and mortality in endotoxic shock by recoupling organ systems. BMC Pharmacology & Toxicology, 2013, 14, .	2.4	0
1182	Estimation of local scale exponents for heartbeat time series based on DFA. Nonlinear Dynamics, 2013, 74, 1183-1190.	5.2	38
1183	Nonlinear heart rate variability measures under electromagnetic fields produced by GSM cellular phones. Electromagnetic Biology and Medicine, 2013, 32, 173-181.	1.4	12
1184	Mood recognition in bipolar patients through the PSYCHE platform: Preliminary evaluations and perspectives. Artificial Intelligence in Medicine, 2013, 57, 49-58.	6.5	82
1185	Computational intelligence methods for the identification of early Cardiac Autonomic Neuropathy. , 2013, , .		3
1186	Degeneracy and long-range correlations. Chaos, 2013, 23, 043109.	2.5	23
1187	Diminished vagal activity and blunted diurnal variation of heart rate dynamics in posttraumatic stress disorder. Stress, 2013, 16, 300-310.	1.8	68

#	Article	IF	Citations
1188	A systems biology approach to studying Tai Chi, physiological complexity and healthy aging: Design and rationale of a pragmatic randomized controlled trial. Contemporary Clinical Trials, 2013, 34, 21-34.	1.8	58
1189	Financial price dynamics and pedestrian counterflows: A comparison of statistical stylized facts. Physical Review E, 2013, 87, 012804.	2.1	37
1190	Mitigating the effect of non-stationarity in spectral analysisâ€"An application to neonate heart rate analysis. Computers in Biology and Medicine, 2013, 43, 2001-2006.	7.0	24
1191	Cardiorespiratory coupling in health and disease. Autonomic Neuroscience: Basic and Clinical, 2013, 175, 26-37.	2.8	65
1192	Physiologic complexity and aging: Implications for physical function and rehabilitation. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2013, 45, 287-293.	4.8	131
1193	Fault diagnosis of rolling bearings based on multifractal detrended fluctuation analysis and Mahalanobis distance criterion. Mechanical Systems and Signal Processing, 2013, 38, 515-533.	8.0	117
1195	Self-organised critical features in soil radon and MHz electromagnetic disturbances: Results from environmental monitoring in Greece. Applied Radiation and Isotopes, 2013, 72, 39-53.	1.5	23
1196	Assessment of differenced center of pressure time series improves detection of age-related changes in postural coordination. Gait and Posture, 2013, 38, 345-348.	1.4	9
1197	On the multifractal effects generated by monofractal signals. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 5845-5864.	2.6	36
1198	A new EEG biomarker of neurobehavioural impairment and sleepiness in sleep apnea patients and controls during extended wakefulness. Clinical Neurophysiology, 2013, 124, 1605-1614.	1.5	50
1199	Removal of visual feedback lowers structural variability of inter-digit force coordination during sustained precision pinch. Neuroscience Letters, 2013, 545, 1-5.	2.1	29
1200	Wavelet-based multifractal analysis of large scale wind turbine main bearing. Journal of Renewable and Sustainable Energy, 2013, 5, 013102.	2.0	7
1201	Reduced complexity of intracranial pressure observed in short time series of intracranial hypertension following traumatic brain injury in adults. Journal of Clinical Monitoring and Computing, 2013, 27, 395-403.	1.6	19
1202	Moderate and heavy metabolic stress interval training improve arterial stiffness and heart rate dynamics in humans. European Journal of Applied Physiology, 2013, 113, 839-849.	2.5	28
1203	The role of the circadian system in fractal neurophysiological control. Biological Reviews, 2013, 88, 873-894.	10.4	51
1204	On excursion increments in heartbeat dynamics. Chaos, Solitons and Fractals, 2013, 52, 1-7.	5.1	1
1205	Point-Process Nonlinear Models With Laguerre and Volterra Expansions: Instantaneous Assessment of Heartbeat Dynamics. IEEE Transactions on Signal Processing, 2013, 61, 2914-2926.	5.3	71
1206	Entrainment of the Intrinsic Dynamics of Single Isolated Neurons by Natural-Like Input. Journal of Neuroscience, 2013, 33, 7912-7918.	3.6	37

#	Article	IF	Citations
1207	Altered temporal correlations in resting-state connectivity fluctuations in children with reading difficulties detected via MEG. NeuroImage, 2013, 83, 307-317.	4.2	84
1208	The Western Crete geodetic infrastructure: Long-range power-law correlations in GPS time series using Detrended Fluctuation Analysis. Advances in Space Research, 2013, 51, 1448-1467.	2.6	10
1209	Effect of endotoxin on heart rate dynamics in rats with cirrhosis. Autonomic Neuroscience: Basic and Clinical, 2013, 177, 104-113.	2.8	34
1210	Automated identification of normal and diabetes heart rate signals using nonlinear measures. Computers in Biology and Medicine, 2013, 43, 1523-1529.	7.0	121
1211	PoincarÃ© plot indexes of heart rate variability: Relationships with other nonlinear variables. Autonomic Neuroscience: Basic and Clinical, 2013, 177, 271-274.	2.8	149
1212	Long-Range Temporal Correlations in Resting-State Alpha Oscillations Predict Human Timing-Error Dynamics. Journal of Neuroscience, 2013, 33, 11212-11220.	3.6	70
1213	Highâ€volume sports club participation and autonomic nervous system activity in children. European Journal of Clinical Investigation, 2013, 43, 821-828.	3.4	18
1214	Multifractality of Brazilian rivers. Journal of Hydrology, 2013, 495, 208-215.	5.4	33
1215	Different multi-fractal behaviors of diurnal temperature range over the north and the south of China. Theoretical and Applied Climatology, 2013, 112, 673-682.	2.8	26
1216	Quadrantal multi-scale distribution entropy analysis of heartbeat interval series based on a modified PoincarÃ© plot. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 3601-3609.	2.6	22
1217	Measuring persistence in a stationary time series using the complex network theory. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 287-293.	2.6	16
1218	A scaling exponent-based detector of chaos in oscillatory circuits. Physica D: Nonlinear Phenomena, 2013, 242, 67-73.	2.8	5
1219	Adolescent blood pressure hyperreactors have a higher reactive hyperemic index at the fingertip. European Journal of Applied Physiology, 2013, 113, 2991-3000.	2.5	7
1220	Noninvasive Localization of Epileptic Sites from Stable Phase Synchronization Patterns on Different Days Derived from Short Duration Interictal Scalp dEEG. Brain Topography, 2013, 26, 1-8.	1.8	10
1221	Initial fractal exponent of heart rate variability is associated with success of early resuscitation in patients with severe sepsis or septic shock: a prospective cohort study. Journal of Critical Care, 2013, 28, 959-963.	2.2	13
1222	Selfâ€focused cognitive emotion regulation style as associated with widespread diminished EEG fractal dimension. International Journal of Psychology, 2013, 48, 695-703.	2.8	16
1223	A novel motion generation strategy for robotic tooth brushing simulator. Industrial Robot, 2013, 40, 355-362.	2.1	3
1224	Multifractality of Nonlinear Transformations with Application in Finances. Acta Physica Polonica A, 2013, 123, 529-537.	0.5	17

#	Article	IF	Citations
1225	Mathematical biomarkers for the autonomic regulation of cardiovascular system. Frontiers in Physiology, 2013, 4, 279.	2.8	43
1226	Short-term vs. long-term heart rate variability in ischemic cardiomyopathy risk stratification. Frontiers in Physiology, 2013, 4, 364.	2.8	34
1227	Heart rate variability and phantom pain in male amputees: Application of linear and nonlinear methods. Journal of Rehabilitation Research and Development, 2013, 50, 449.	1.6	9
1228	Association of cardiovascular risk using non-linear heart rate variability measures with the framingham risk score in a rural population. Frontiers in Physiology, 2013, 4, 186.	2.8	31
1229	Using complexity metrics with R-R intervals and BPM heart rate measures. Frontiers in Physiology, 2013, 4, 211.	2.8	28
1230	Diminished heart beat non-stationarities in congestive heart failure. Frontiers in Physiology, 2013, 4, 107.	2.8	1
1231	Lack of Negative Correlation in Glucose Dynamics by Nonexercise Activity Thermogenesis Restriction in Healthy Adults. Medicine and Science in Sports and Exercise, 2013, 45, 60-66.	0.4	4
1232	Fractal dynamics of light scattering intensity fluctuation in disordered dusty plasmas. Physics of Plasmas, 2013, 20, 103702.	1.9	1
1233	Heart rate variability: are there complex patterns?. Frontiers in Physiology, 2013, 4, 165.	2.8	6
1234	Heart rate variability and functional outcome in ischemic stroke. Journal of Hypertension, 2013, 31, 1629-1636.	0.5	68
1235	Is Baseline Cardiac Autonomic Modulation Related to Performance and Physiological Responses Following a Supramaximal Judo Test?. PLoS ONE, 2013, 8, e78584.	2.5	13
1236	Correlation between detrended fluctuation analysis and the Lempel-Ziv complexity in nonlinear time series analysis. Chinese Physics B, 2013, 22, 030504.	1.4	9
1237	Heart rate complexity and cardiac sympathetic dysinnervation in patients with type 2 diabetes mellitus. , 2013, 2013, 5570-3.		5
1238	AnÃ¡lise da variabilidade da frequÃªncia cardÃaca em indivÃduos saudÃ¡veis, doentes com insuficiÃªncia cardÃaca e doentes transplantados. Motricidade, 2013, 9, .	0.2	1
1239	Nonlinear Variability of Body Sway in Patients with Phobic Postural Vertigo. Frontiers in Neurology, 2013, 4, 115.	2.4	31
1240	Stochastic Behavior of Phase Synchronization Index and Cross-Frequency Couplings in Epileptogenic Zones during Interictal Periods Measured with Scalp dEEG. Frontiers in Neurology, 2013, 4, 57.	2.4	10
1241	Manifestation of scale invariance in the spectral fluctuations of random matrices. Physical Review E, 2013, 87, .	2.1	3
1242	Cross-correlation detection and analysis for California's electricity market based on analogous multifractal analysis. Chaos, 2013, 23, 013129.	2.5	25

#	Article	IF	Citations
1243	Heart rate variability analysis using approximate entropy and detrended fluctuation for monitoring heart condition. , 2013, , .		3
1244	Breakdown of long-range temporal dependence in default mode and attention networks during deep sleep. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15419-15424.	7.1	203
1245	Extension and detailed overview of the HRVFrame framework for heart rate variability analysis. , 2013, , .		11
1246	Estimation of temporal scales of variation in long-term scalp electroencephalograms from epilepsy patients. , 2013, 2013, 2894-7.		0
1247	A sliding window approach to detrended fluctuation analysis of heart rate variability. , 2013, 2013, 3278-81.		5
1248	Beyond long memory in heart rate variability: An approach based on fractionally integrated autoregressive moving average time series models with conditional heteroscedasticity. Chaos, 2013, 23, 023103.	2.5	24
1249	Scaling range of power laws that originate from fluctuation analysis. Physical Review E, 2013, 87, 052809.	2.1	19
1250	Influence of age and gender on complexity measures for short term heart rate variability analysis in healthy subjects. , 2013, 2013, 5574-7.		15
1251	Filtering high-resolution hyperspectral imagery in a maximum noise fraction transform domain using wavelet-based de-striping. International Journal of Remote Sensing, 2013, 34, 2216-2235.	2.9	13
1252	The available force in long-duration memory complex systems and its statistical physical properties. Europhysics Letters, 2013, 103, 10011.	2.0	3
1253	Multifractal Detrended Fluctuation Analysis of Interevent Time Series in a Modified OFC Model. Communications in Theoretical Physics, 2013, 59, 1-6.	2.5	14
1254	Fractal Structure of Event Segmentation: Lessons From Reel and Real Events. Ecological Psychology, 2013, 25, 81-101.	1.1	9
1255	NONLINEAR INDICES OF HEART RATE VARIABILITY FOR DIFFERENTIATING ARRHYTHMIAS. Journal of Mechanics in Medicine and Biology, 2013, 13, 1350061.	0.7	2
1256	Multi-complexity measures for early detection and monitoring of neurological abnormalities from gait time series. , 2013, , .		2
1257	Reduced heart rate variability during sleep in long-duration spaceflight. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 305, R164-R170.	1.8	25
1258	Modulation of cortical neural dynamics during thalamic deep brain stimulation in patients with essential tremor. NeuroReport, 2013, 24, 751-756.	1.2	12
1259	Investigation of long-memory properties in streamflow time series in Gamasiab River, Iran. International Journal of Hydrology Science and Technology, 2013, 3, 319.	0.3	6
1260	Impact of sedation and organ failure on continuous heart and respiratory rate variability monitoring in critically ill patients. Critical Care Medicine, 2013, 41, 433-444.	0.9	33

#	Article	IF	Citations
1261	Optimal Fractal Feature and Neural Network: EEG Based BCI Applications. , 2013, , .		4
1262	Nonlinear Methods to Assess Changes in Heart Rate Variability in Type 2 Diabetic Patients. Arquivos Brasileiros De Cardiologia, 2013, 101, 317-27.	0.8	48
1263	Optimizing Complexity Measures for fMRI Data: Algorithm, Artifact, and Sensitivity. PLoS ONE, 2013, 8, e63448.	2.5	35
1264	Interactive Rhythmic Cue Facilitates Gait Relearning in Patients with Parkinson's Disease. PLoS ONE, 2013, 8, e72176.	2.5	42
1265	Fetal Functional Brain Age Assessed from Universal Developmental Indices Obtained from Neuro-Vegetative Activity Patterns. PLoS ONE, 2013, 8, e74431.	2.5	44
1266	The Role of Î±7 Nicotinic Acetylcholine Receptor in Modulation of Heart Rate Dynamics in Endotoxemic Rats. PLoS ONE, 2013, 8, e82251.	2.5	17
1267	The rates of change of the stochastic trajectories of acceleration variability are a good predictor of normal aging and of the stage of Parkinson's disease. Frontiers in Integrative Neuroscience, 2013, 7, 50.	2.1	20
1268	Fractal Physiology, Breath-to-Breath Variability and Respiratory Diseases: An Introduction to Complex Systems Theory Application in Pulmonary and Critical Care Medicine. , 0, , .		0
1269	Non-extensivity and long-range correlations in the earthquake activity at the West Corinth rift (Greece). Nonlinear Processes in Geophysics, 2013, 20, 713-724.	1.3	54
1270	Multifractal Detrended Cross-correlation Analysis of Gold and WTI Crude Oil Price Time Series. , 2014, 03, .		1
1271	Detrended Fluctuation Analysis and Adaptive Fractal Analysis of Stride Time Data in Parkinson's Disease: Stitching Together Short Gait Trials. PLoS ONE, 2014, 9, e85787.	2.5	63
1272	Fractal Gait Patterns Are Retained after Entrainment to a Fractal Stimulus. PLoS ONE, 2014, 9, e106755.	2.5	35
1273	Long-range correlation properties in timing of skilled piano performance: the influence of auditory feedback and deep brain stimulation. Frontiers in Psychology, 2014, 5, 1030.	2.1	15
1274	One month of contemporary dance modulates fractal posture in aging. Frontiers in Aging Neuroscience, 2014, 6, 17.	3.4	18
1275	Membrane current series monitoring: essential reduction of data points to finite number of stable parameters. Frontiers in Computational Neuroscience, 2014, 8, 120.	2.1	10
1276	Markers of criticality in phase synchronization. Frontiers in Systems Neuroscience, 2014, 8, 176.	2.5	40
1277	Spatial analysis of oil reservoirs using detrended fluctuation analysis of geophysical data. Nonlinear Processes in Geophysics, 2014, 21, 1043-1049.	1.3	7
1278	Latitudinal variation of stochastic properties of the geomagnetic field. Nonlinear Processes in Geophysics, 2014, 21, 347-356.	1.3	8

#	Article	IF	Citations
1279	Chaotic global parameters correlation with heart rate variability in obese children. Journal of Human Growth and Development, 2014, 24, 24.	0.6	15
1280	Investigation of dynamical characteristics of blood pressure and heart rate variation in different blood pressure categories. Model Assisted Statistics and Applications, 2014, 9, 213-221.	0.3	0
1281	MULTISCALE DETRENDED FLUCTUATION ANALYSIS OF TRAFFIC INDEX SERIES. Fluctuation and Noise Letters, 2014, 13, 1450001.	1.5	2
1282	Removal of artifacts in knee joint vibroarthrographic signals using ensemble empirical mode decomposition and detrended fluctuation analysis. Physiological Measurement, 2014, 35, 429-439.	2.1	39
1283	Kernel based support vector machine for the early detection of syncope during head-up tilt test. Physiological Measurement, 2014, 35, 2119-2134.	2.1	8
1284	Fractal-like correlations of the fluctuating inter-spike membrane potential of a Helix aspersa pacemaker neuron. Computers in Biology and Medicine, 2014, 53, 258-264.	7.0	4
1285	The effect of endotoxin on the controllability of cardiac rhythm in rats. Physiological Measurement, 2014, 35, 339-349.	2.1	18
1286	Chaotic behavior of light-assisted physical aging in arsenoselenide glasses. Chaos, 2014, 24, 043138.	2.5	1
1287	Principal component analysis of heart rate variability data in assessing cardiac autonomic neuropathy. , 2014, 2014, 6667-70.		15
1288	Using Complexity Metrics to Assess Silent Reading Fluency: A Cross-Sectional Study Comparing Oral and Silent Reading. Scientific Studies of Reading, 2014, 18, 235-254.	2.0	17
1289	Parametric phase diffusion analysis of irregular oscillations. Europhysics Letters, 2014, 107, 68001.	2.0	3
1290	Detrended fluctuation analysis of non-stationary cardiac beat-to-beat interval of sick infants. Europhysics Letters, 2014, 108, 40005.	2.0	27
1291	Modified multidimensional scaling approach to analyze financial markets. Chaos, 2014, 24, 022102.	2.5	14
1292	Assessing complexity of heart rate variability in people with spinal cord injury using local scale exponents. , 2014, 2014, 6381-4.		1
1293	The Application of Detrended Fluctuation Analysis in Rice Blast in the Early Warning. Applied Mechanics and Materials, 2014, 644-650, 6011-6014.	0.2	0
1294	Haptic perceptual intent in quiet standing affects multifractal scaling of postural fluctuations.. Journal of Experimental Psychology: Human Perception and Performance, 2014, 40, 1808-1818.	0.9	54
1295	Cardiac Autonomic Dysfunction in Type 2 Diabetes Ã¢â‚¬â€œ Effect of Hyperglycemia and Disease Duration. Frontiers in Endocrinology, 2014, 5, 130.	3.5	56
1296	Effect of Treadmill versus Overground Running on the Structure of Variability of Stride Timing. Perceptual and Motor Skills, 2014, 118, 331-346.	1.3	40

#	Article	IF	Citations
1297	Physio-behavioral coupling in a cooperative team task: Contributors and relations.. Journal of Experimental Psychology: Human Perception and Performance, 2014, 40, 145-158.	0.9	65
1298	Everything Hertz: methodological issues in short-term frequency-domain HRV. Frontiers in Physiology, 2014, 5, 177.	2.8	214
1299	Statistics of fractional moments applied to 3D video streams. , 2014, , .		0
1300	Fractal dynamics in dexterous tool use: The case of hammering behavior of bead craftsmen.. Journal of Experimental Psychology: Human Perception and Performance, 2014, 40, 218-231.	0.9	23
1301	The role of reading time complexity and reading speed in text comprehension.. Journal of Experimental Psychology: Learning Memory and Cognition, 2014, 40, 1745-1765.	0.9	42
1302	Comparative Study of Entropy Sensitivity to Missing Biosignal Data. Entropy, 2014, 16, 5901-5918.	2.2	25
1303	Effects of Exponential Trends on Correlations of Stock Markets. Mathematical Problems in Engineering, 2014, 2014, 1-11.	1.1	2
1304	HRV Analysis: A Clinical and Diagnostic Tool in Chronic Obstructive Pulmonary Disease. International Scholarly Research Notices, 2014, 2014, 1-6.	0.9	17
1305	Automatic Sleep Stages Classification Using EEG Entropy Features and Unsupervised Pattern Analysis Techniques. Entropy, 2014, 16, 6573-6589.	2.2	94
1306	Sample Entropy and Traditional Measures of Heart Rate Dynamics Reveal Different Modes of Cardiovascular Control During Low Intensity Exercise. Entropy, 2014, 16, 5698-5711.	2.2	46
1307	Scaling analysis of increment white-noise series. , 2014, , .		0
1308	Time series data analysis using DFA. , 2014, , .		0
1309	Multi-scale dynamics of glow discharge plasma through wavelets: Self-similar behavior to neutral turbulence and dissipation. Chaos, 2014, 24, 043135.	2.5	5
1310	Machine Learning Approach for Sudden Cardiac Arrest Prediction Based on Optimal Heart Rate Variability Features. Journal of Medical Imaging and Health Informatics, 2014, 4, 521-532.	0.3	42
1311	Scaling analysis of stock markets. Chaos, 2014, 24, 023107.	2.5	13
1312	Quantification of the acute effect of a low dose of red wine by nonlinear measures of RR and QT interval series in healthy subjects. Computers in Biology and Medicine, 2014, 53, 291-296.	7.0	2
1313	Adaptive BCI based on software agents. , 2014, 2014, 5458-61.		1
1314	Cloud-Based Remote Processing and Data-Mining Platform for Automatic Risk Assessment in Hypertensive Patients. Lecture Notes in Computer Science, 2014, , 155-162.	1.3	8

#	Article	IF	Citations
1315	Classification of cardiac rhythm based on heart rate dynamics. , 2014, , .		3
1316	Novel feature extraction method based on weight difference of weighted network for epileptic seizure detection. , 2014, 2014, 3256-9.		2
1317	MultiScale wavelet p-leader based heart rate variability analysis for survival probability assessment in CHF patients. , 2014, 2014, 2809-12.		11
1318	Evaluation of fetal heart rate variability based on automatically determined R-times in a fetal ecg monitor. , 2014, , .		3
1320	A multi-scale feedback ratio analysis of heartbeat interval series in healthy vs. cardiac patients. Medical Engineering and Physics, 2014, 36, 1693-1698.	1.7	11
1321	Study of the temporal correlations in the magnitude time series before major earthquakes in Japan. Journal of Geophysical Research: Space Physics, 2014, 119, 9192-9206.	2.4	113
1322	Normal values for heart rate variability parameters in children 6â€“8Âyears of age: the <scp>PANIC</scp> Study. Clinical Physiology and Functional Imaging, 2014, 34, 290-296.	1.2	67
1323	Data driven approach for performance assessment of linear and nonlinear Kalman filters. , 2014, , .		5
1324	Prediction and control of bursty cloud workloads. , 2014, , .		26
1325	Study on the comparison of three different upper limb motion recognition methods. , 2014, , .		6
1326	Application of dynamical analyses of heart rate to rhythm classification and prognosis. , 2014, 2014, 1723-6.		0
1327	Identification of Criticality in Neuronal Avalanches: II. A Theoretical and Empirical Investigation of the Driven Case. Journal of Mathematical Neuroscience, 2014, 4, 9.	2.4	12
1328	Complexity analysis of sleep and alterations with insomnia based on non-invasive techniques. Journal of the Royal Society Interface, 2014, 11, 20131112.	3.4	23
1329	Scaling and gender behavior of road accidental dynamics. Europhysics Letters, 2014, 108, 58007.	2.0	3
1330	Quantitative Evaluation of the Use of Actigraphy for Neurological and Psychiatric Disorders. Behavioural Neurology, 2014, 2014, 1-6.	2.1	12
1331	Feature selection on single-lead ECG for obstructive sleep apnea diagnosis. Turkish Journal of Electrical Engineering and Computer Sciences, 2014, 22, 465-478.	1.4	6
1332	Multiscale Diffusion Entropy Analysis on Traffic Index Series. Applied Mechanics and Materials, 0, 556-562, 3553-3557.	0.2	1
1333	Optical Push by Geographical Slant Affects Postural Sway. Ecological Psychology, 2014, 26, 283-300.	1.1	2

#	Article	IF	Citations
1334	On variance based methods in computer-aided phonocardiography. , 2014, , .		1
1335	Relation between heart beat fluctuations and cyclic alternating pattern during sleep in insomnia patients. , 2014, 2014, 2249-52.		4
1336	To study non linear features in circadian heart rate variability amongst healthy subjects. , 2014, , .		1
1337	Patterns of optimization in single- and inter-leg gait dynamics. Gait and Posture, 2014, 39, 733-738.	1.4	12
1338	Effects of non-stationarity on the magnitude and sign scaling in the multi-scale vertical velocity increment. Physica A: Statistical Mechanics and Its Applications, 2014, 410, 9-16.	2.6	14
1339	Network connectivity modulates power spectrum scale invariance. NeuroImage, 2014, 90, 436-448.	4.2	19
1340	Ground-based GPS measurements: time behavior from half-hour to years. Theoretical and Applied Climatology, 2014, 115, 615-625.	2.8	9
1341	Kubios HRV â€“ Heart rate variability analysis software. Computer Methods and Programs in Biomedicine, 2014, 113, 210-220.	4.7	1,878
1342	Traces of self-organisation and long-range memory in variations of environmental radon in soil: comparative results from monitoring in Lesvos Island and Ileia (Greece). Journal of Radioanalytical and Nuclear Chemistry, 2014, 299, 203-219.	1.5	22
1343	Application of Multivariate Statistical Methods and Water-Quality Index to Evaluation of Water Quality in the Kashkan River. Environmental Management, 2014, 53, 865-881.	2.7	59
1344	Multifractality due to long-range correlation in the L-band ionospheric scintillation S 4 index time series. Astrophysics and Space Science, 2014, 350, 47-56.	1.4	28
1345	Fittsâ€™ index of difficulty predicts the 1/f structure of movement amplitude time series. Experimental Brain Research, 2014, 232, 1653-1662.	1.5	10
1346	Multifractal analysis of inclined oil-water countercurrent flow. Petroleum Science, 2014, 11, 111-121.	4.9	8
1347	A Data Driven Approach to Performance Assessment of PID Controllers for Setpoint Tracking. Procedia Engineering, 2014, 69, 1130-1137.	1.2	25
1348	Multiscale multifractal analysis of traffic signals to uncover richer structures. Physical Review E, 2014, 89, 032916.	2.1	52
1349	A novel method for feature extraction using crossover characteristics of nonlinear data and its application to fault diagnosis of rotary machinery. Mechanical Systems and Signal Processing, 2014, 48, 174-187.	8.0	24
1350	The effects of caffeine on heart rate variability in newborns with apnea of prematurity. Journal of Perinatology, 2014, 34, 620-623.	2.0	22
1351	Nonlinear and stochastic dynamics in the heart. Physics Reports, 2014, 543, 61-162.	25.6	166

#	Article	IF	Citations
1352	A new algorithm for quadratic sample entropy optimization for very short biomedical signals: Application to blood pressure records. Computer Methods and Programs in Biomedicine, 2014, 114, 231-239.	4.7	15
1353	A comparative analysis of spectral exponent estimation techniques for 1/fî² processes with applications to the analysis of stride interval time series. Journal of Neuroscience Methods, 2014, 222, 118-130.	2.5	25
1354	Influence of stroke location on heart rate variability in robot-assistive neurorehabilitation. , 2014, , .		1
1355	Spatial organization and correlation properties quantify structural changes on mesoscale of parenchymatous plant tissue. Journal of Applied Physics, 2014, 115, .	2.5	3
1356	On 2D generalization of Higuchiâ€™s fractal dimension. Chaos, Solitons and Fractals, 2014, 69, 179-187.	5.1	17
1357	The association of physical activity to neural adaptability during visuo-spatial processing in healthy elderly adults: A multiscale entropy analysis. Brain and Cognition, 2014, 92, 73-83.	1.8	27
1358	Representation of fluctuation features in pathological knee joint vibroarthrographic signals using kernel density modeling method. Medical Engineering and Physics, 2014, 36, 1305-1311.	1.7	40
1359	Dynamical glucometry: Use of multiscale entropy analysis in diabetes. Chaos, 2014, 24, 033139.	2.5	53
1360	Multifractal detrended cross-correlation analysis on gold, crude oil and foreign exchange rate time series. Physica A: Statistical Mechanics and Its Applications, 2014, 416, 452-460.	2.6	79
1361	From the time series to the complex networks: The parametric natural visibility graph. Physica A: Statistical Mechanics and Its Applications, 2014, 414, 53-60.	2.6	84
1362	Interplay of synchronized music. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12960-12961.	7.1	1
1363	Multifractal diffusion entropy analysis: Optimal bin width of probability histograms. Physica A: Statistical Mechanics and Its Applications, 2014, 413, 438-458.	2.6	23
1364	Fine temporal structure of cardiorespiratory synchronization. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H755-H763.	3.2	14
1365	Long term variability of the Danube River flow and its relation to precipitation and air temperature. Journal of Hydrology, 2014, 519, 871-880.	5.4	41
1366	Synchronization in human musical rhythms and mutually interacting complex systems. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12974-12979.	7.1	58
1367	Nonlinear properties of cardiac rhythm and respiratory signal under paced breathing in young and middle-aged healthy subjects. Medical Engineering and Physics, 2014, 36, 1577-1584.	1.7	27
1368	The Quantification of the QT-RR Interaction in ECG Signal Using the Detrended FluctuationAnalysis and ARARX Modelling. Journal of Medical Systems, 2014, 38, 62.	3.6	5
1369	Computational validation of fractal characterization by using the wavelet-based fractal analysis. Journal of the Korean Physical Society, 2014, 64, 780-785.	0.7	6

#	Article	IF	Citations
1370	Multiscale multifractal detrended cross-correlation analysis of financial time series. Physica A: Statistical Mechanics and Its Applications, 2014, 403, 35-44.	2.6	75
1371	Measuring and locating zones of chaos and irregularity. Journal of Systems Science and Complexity, 2014, 27, 494-506.	2.8	21
1372	Fractal correlation property of heart rate variability in response to the postural change maneuver in healthy women. International Archive of Medicine, 2014, 7, 25.	1.2	26
1373	Climate Time Series Analysis. Atmospheric and Oceanographic Sciences Library, 2014, , .	0.1	133
1374	Detrended Fluctuation Analysis of Heart Rate Variability in Noise Exposure. Advanced Materials Research, 0, 1044-1045, 1129-1134.	0.3	1
1375	Statistical properties of the seismic noise field: influence of soil heterogeneities. Geophysical Journal International, 2014, 199, 430-440.	2.4	12
1376	Wearable Monitoring for Mood Recognition in Bipolar Disorder Based on History-Dependent Long-Term Heart Rate Variability Analysis. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1625-1635.	6.3	127
1377	APPLICATIONS OF VARIANCE FRACTAL DIMENSION: A SURVEY. Fractals, 2014, 22, 1450003.	3.7	13
1378	Feature Selection and Activity Recognition System Using a Single Triaxial Accelerometer. IEEE Transactions on Biomedical Engineering, 2014, 61, 1780-1786.	4.2	273
1379	How to measure ecosystem stability? An evaluation of the reliability of stability metrics based on remote sensing time series across the major global ecosystems. Global Change Biology, 2014, 20, 2149-2161.	9.5	86
1380	Munc18-1 haploinsufficiency results in enhanced anxiety-like behavior as determined by heart rate responses in mice. Behavioural Brain Research, 2014, 260, 44-52.	2.2	27
1381	A criterion for the determination of optimal scaling ranges in DFA and MF-DFA. Physica A: Statistical Mechanics and Its Applications, 2014, 397, 17-30.	2.6	39
1382	Data-based automated diagnosis and iterative retuning of proportional-integral (PI) controllers. Control Engineering Practice, 2014, 29, 23-41.	5.5	23
1383	Multifractal behaviour of the ionospheric scintillation index time series over an Indian low latitude station Surat. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 109, 66-74.	1.6	6
1384	Strong anticipation and long-range cross-correlation: Application of detrended cross-correlation analysis to human behavioral data. Physica A: Statistical Mechanics and Its Applications, 2014, 394, 47-60.	2.6	37
1386	Heart Rate Variability. , 2014, , .		56
1387	Entrainment to a real time fractal visual stimulus modulates fractal gait dynamics. Human Movement Science, 2014, 36, 20-34.	1.4	59
1388	From beat rate variability in induced pluripotent stem cellâ€“derived pacemaker cells to heart rate variability in human subjects. Heart Rhythm, 2014, 11, 1808-1818.	0.7	33

#	Article	IF	Citations
1389	Glucose series complexity in hypertensive patients. Journal of the American Society of Hypertension, 2014, 8, 630-636.	2.3	6
1390	Beta-band amplitude oscillations in the human internal globus pallidus support the encoding of sequence boundaries during initial sensorimotor sequence learning. NeuroImage, 2014, 85, 779-793.	4.2	28
1391	Development of coordination in time estimation.. Developmental Psychology, 2014, 50, 393-401.	1.6	6
1392	Spike avalanches in vivo suggest a driven, slightly subcritical brain state. Frontiers in Systems Neuroscience, 2014, 8, 108.	2.5	246
1393	General anesthesia suppresses normal heart rate variability in humans. Chaos, 2014, 24, 023129.	2.5	15
1394	Predicting air quality using ARIMA, ARFIMA and HW smoothing. Model Assisted Statistics and Applications, 2014, 9, 137-149.	0.3	9
1395	Physical Activity and Aerobic Fitness are Positively Associated With Heart Rate Variability in Obese Adults. Journal of Physical Activity and Health, 2014, 11, 1614-1621.	2.0	31
1396	A Pediatric Correlational Study of Stride Interval Dynamics, Energy Expenditure and Activity Level. Pediatric Exercise Science, 2014, 26, 242-249.	1.0	0
1397	A Multiscale Entropy-Based Tool for Scoring Severity of Systemic Inflammation*. Critical Care Medicine, 2014, 42, e560-e569.	0.9	26
1398	New seismic attribute: Fractal scaling exponent based on gray detrended fluctuation analysis. Applied Geophysics, 2015, 12, 343-352.	0.6	5
1399	Detrended Fluctuation and Power Spectral Analysis of alpha and delta EEG brain rhythms to study music elicited emotion. , 2015, , .		13
1400	Effects of backward difference on DFA of RR interval data of CHF subjects. , 2015, , .		0
1401	Rhythm-fluctuation-based evaluation platform for gait training of Parkinson's disease patients. , 2015, , .		0
1402	Evaluation of the performance of the Beijing Climate Centre Climate System Model 1.1(m) to simulate precipitation across China based on longâ€range correlation characteristics. Journal of Geophysical Research D: Atmospheres, 2015, 120, 12576-12588.	3.3	18
1403	Automatic classifier based on heart rate variability to identify fallers among hypertensive subjects. Healthcare Technology Letters, 2015, 2, 89-94.	3.3	12
1404	Complexity of Heart Rate Variability Can Predict Stroke-In-Evolution in Acute Ischemic Stroke Patients. Scientific Reports, 2015, 5, 17552.	3.3	48
1405	Existence of anticorrelations for local field potentials recorded from mice reared in standard condition and environmental enrichment. Physical Review E, 2015, 91, 012702.	2.1	5
1406	Establishing a direct connection between detrended fluctuation analysis and Fourier analysis. Physical Review E, 2015, 92, 042925.	2.1	53

#	Article	IF	Citations
1407	Detrended fluctuation analysis made flexible to detect range of cross-correlated fluctuations. Physical Review E, 2015, 92, 052815.	2.1	121
1408	Complexity of cardiac signals for predicting changes in alpha-waves after stress in patients undergoing cardiac catheterization. Scientific Reports, 2015, 5, 13315.	3.3	16
1409	Bayesian nonparametric learning of switching dynamics in cohort physiological time series: application in critical care patient monitoring. , 0, , 257-282.		4
1410	ComparaÃ§Ã£o de EstatÃsticas em AnÃ¡lise de SÃ©ries Temporais: AplicaÃ§Ã£o a Dados ClimatolÃ³gicos de Salvador - BA. , 2015, , .		0
1411	We should be using nonlinear indices when relating heart-rate dynamics to cognition and mood. Scientific Reports, 2015, 5, 16619.	3.3	66
1412	Locomotor Microactivities Associated with Therapeutic Responses in Patients with Seasonal Affective Disorders. Integrative Medicine International, 2015, 1, 151-161.	0.6	5
1413	Reversible heart rhythm complexity impairment in patients with primary aldosteronism. Scientific Reports, 2015, 5, 11249.	3.3	20
1414	Heart rate variability associated with walking Zen meditation Kinhin: Towards â€˜contemplatio actioneâ€™. , 2015, , .		0
1415	Hydrodynamic handicaps and organizational complexity in the foraging behavior of two free-ranging penguin species. Animal Biotelemetry, 2015, 3, .	1.9	6
1416	Risk evaluation of diabetes mellitus by relation of chaotic globals to HRV. Complexity, 2015, 20, 84-92.	1.6	33
1417	The Effect of Task-Load Transitions on Team Postural Dynamics. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 1022-1026.	0.3	0
1418	Multiscale PoincarÃ© plots for visualizing the structure of heartbeat time series. BMC Medical Informatics and Decision Making, 2015, 16, 17.	3.0	33
1419	Complexity analysis of human physiological signals based on case studies. Journal of Physics: Conference Series, 2015, 597, 012010.	0.4	0
1420	Severe Cardiac Autonomic Derangement and Altered Ventricular Repolarization Pave the Way to Postoperative Atrial Fibrillation. Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery, 2015, 10, 398-405.	0.9	8
1421	Is heart-rate complexity a surrogate measure of cardiac output before, during, and after hemorrhage in a conscious sheep model of multiple hemorrhages and resuscitation?. Journal of Trauma and Acute Care Surgery, 2015, 79, S93-S100.	2.1	4
1422	Cardiac Autonomic Response to Active Standing in Adults With Vasovagal Syncope. Journal of Clinical Neurophysiology, 2015, 32, 434-439.	1.7	3
1423	HEART RATE DYNAMICS BY NOVEL CHAOTIC GLOBALS TO HRV IN OBESE YOUTHS. Journal of Human Growth and Development, 2015, 25, 82.	0.6	15
1424	Long-term correlation of the electrocorticogram as a bioindicator of brain exposure to ionizing radiation. Brazilian Journal of Medical and Biological Research, 2015, 48, 915-922.	1.5	8

#	Article	IF	Citations
1425	ECG Sensor Card with Evolving RBP Algorithms for Human Verification. Sensors, 2015, 15, 20730-20751.	3.8	7
1426	Everyday Life Quantification Using mDFA: Heart Health Monitoring and Structural Health Monitoring. , 2015, , .		0
1427	Detrended Fluctuation Analysis and Higuchi's Windowing Method Applied to an Analysis of Southern California Seismicity. , 2015, , .		0
1428	Multifractal Detrended Fluctuation Analysis of Streamflow in the Yellow River Basin, China. Water (Switzerland), 2015, 7, 1670-1686.	2.7	64
1429	Characterizing psychological dimensions in non-pathological subjects through autonomic nervous system dynamics. Frontiers in Computational Neuroscience, 2015, 9, 37.	2.1	15
1430	Crossover scaling evaluation in mixed correlated signals by means of Detrended Fluctuation Analysis. Journal of Physics: Conference Series, 2015, 582, 012062.	0.4	2
1431	Automatic Prediction of Cardiovascular and Cerebrovascular Events Using Heart Rate Variability Analysis. PLoS ONE, 2015, 10, e0118504.	2.5	141
1432	Are Complexity Metrics Reliable in Assessing HRV Control in Obese Patients During Sleep?. PLoS ONE, 2015, 10, e0124458.	2.5	7
1433	Android based self-diagnostic electrocardiogram system for mobile healthcare. Technology and Health Care, 2015, 23, S435-S442.	1.2	10
1434	Short-Term Heart Rate Variabilityâ€"Influence of Gender and Age in Healthy Subjects. PLoS ONE, 2015, 10, e0118308.	2.5	307
1435	Fluctuations of Hi-Hat Timing and Dynamics in a Virtuoso Drum Track of a Popular Music Recording. PLoS ONE, 2015, 10, e0127902.	2.5	15
1436	A Cycling Movement Based System for Real-Time Muscle Fatigue and Cardiac Stress Monitoring and Analysis. PLoS ONE, 2015, 10, e0130798.	2.5	12
1437	Complex nonlinear autonomic nervous system modulation link cardiac autonomic neuropathy and peripheral vascular disease. Frontiers in Physiology, 2015, 6, 101.	2.8	4
1438	Long-range correlations and patterns of recurrence in children and adults' attention to hierarchical displays. Frontiers in Physiology, 2015, 6, 138.	2.8	4
1439	Using local scale exponent to characterize heart rate variability in response to postural changes in people with spinal cord injury. Frontiers in Physiology, 2015, 6, 142.	2.8	5
1440	A Novel Application of Multiscale Entropy in Electroencephalography to Predict the Efficacy of Acetylcholinesterase Inhibitor in Alzheimerâ€™s Disease. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-8.	1.3	9
1441	Comment on "Ultra low frequency (ULF) electromagnetic anomalies associated with large earthquakes in Java Island, Indonesia by using wavelet transform and detrended fluctuation analysis" by Febriani et al. (2014). Natural Hazards and Earth System Sciences, 2015, 15, 2697-2701.	3.6	1
1442	Quantifying Stress in Crabs and Humans using Modified DFA. , 0, , .		3

#	Article	IF	Citations
1443	Recognizing Emotions Induced by Affective Sounds through Heart Rate Variability. IEEE Transactions on Affective Computing, 2015, 6, 385-394.	8.3	148
1444	Motion in images is essential to cause motion sickness symptoms, but not to increase postural sway. Displays, 2015, 38, 55-61.	3.7	35
1445	Synaptic Plasticity Enables Adaptive Self-Tuning Critical Networks. PLoS Computational Biology, 2015, 11, e1004043.	3.2	57
1446	Mesenchymal Stem Cells Improve Heart Rate Variability and Baroreflex Sensitivity in Rats with Chronic Heart Failure. Stem Cells and Development, 2015, 24, 2181-2192.	2.1	14
1447	EMD based refined composite multiscale entropy analysis of complex signals. Physica A: Statistical Mechanics and Its Applications, 2015, 421, 583-593.	2.6	33
1448	Long correlations and fractional difference analysis applied to the study of memory effects in high-frequency (tick) data. Quantitative Finance, 2015, 15, 1365-1374.	1.7	2
1449	Detrended fluctuation analysis for major depressive disorder. , 2015, 2015, 4162-5.		11
1450	Effects of Task-Load Transitions on EEG Coupling in a High-Tempo Cooperative Task. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 100-104.	0.3	1
1451	Features of the radiophysical complex MRTHR signals in research of functional processes in the brain tissues. , 2015, , .		0
1452	Feature parameters extraction of gis partial discharge signal with multifractal detrended fluctuation analysis. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 3037-3045.	2.9	38
1453	Arousal recognition system based on heartbeat dynamics during auditory elicitation. , 2015, 2015, 6110-3.		4
1454	Heart Rate Detrended Fluctuation Indexes as Estimate of Obstructive Sleep Apnea Severity. Medicine (United States), 2015, 94, e516.	1.0	20
1455	A cognitive multifractal approach to characterize complexity of non-stationary and malicious DNS data traffic using adaptive sliding window. , 2015, , .		4
1456	Sleep stage classification by body movement index and respiratory interval indices using multiple radar sensors. , 2015, 2015, 7606-9.		19
1457	Nonlinear analysis of fetal heart rate dynamics in fetuses compromised by asymptomatic partial placental abruption. Placenta, 2015, 36, 1474-1479.	1.5	11
1458	Wearable technology and ECG processing for fall risk assessment, prevention and detection. , 2015, 2015, 7740-3.		30
1459	Characterization of low latitude ionospheric scintillations using EEMD - DFA method. , 2015, , .		1
1460	Cardiac autonomic changes after 40 hours of total sleep deprivation in women. Sleep Medicine, 2015, 16, 250-257.	1.6	24

#	Article	IF	Citations
1461	Multiscale entropy-based methods for heart rate variability complexity analysis. Physica A: Statistical Mechanics and Its Applications, 2015, 422, 143-152.	2.6	39
1462	Fatigue reduces the complexity of knee extensor torque fluctuations during maximal and submaximal intermittent isometric contractions in man. Journal of Physiology, 2015, 593, 2085-2096.	2.9	74
1463	Lack of exercise leads to significant and reversible loss of scale invariance in both aged and young mice. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2320-2324.	7.1	49
1464	Heart rate complexity in sinoaorticâ€denervated mice. Experimental Physiology, 2015, 100, 156-163.	2.0	11
1465	Multifractal investigation of continuous seismic signal recorded at El Hierro volcano (Canary) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 582	2.2	14
1466	Predictability of price movements in deregulated electricity markets. Energy Economics, 2015, 49, 72-81.	12.1	12
1468	The Temporal Structure of State Self-Esteem Variability During Parentâ€“Adolescent Interactions: More Than Random Fluctuations. Self and Identity, 2015, 14, 314-333.	1.6	19
1469	Change Î”S of the entropy in natural time under time reversal: Complexity measures upon change of scale. Europhysics Letters, 2015, 109, 18002.	2.0	33
1470	Modeling the diving bradycardia: Toward an â€œoxygen-conserving breaking pointâ€?. European Journal of Applied Physiology, 2015, 115, 1475-1484.	2.5	19
1471	Reduced fractional modeling of 3D video streams: the FERMA approach. Nonlinear Dynamics, 2015, 80, 1869-1882.	5.2	17
1472	Correlation analysis of laser Doppler flowmetry signals: a potential non-invasive tool to assess microcirculatory changes in diabetes mellitus. Medical and Biological Engineering and Computing, 2015, 53, 557-566.	2.8	21
1473	Ecological assessment of heart rate complexity: Differences between high- and low-anxious adolescents. International Journal of Psychophysiology, 2015, 98, 112-118.	1.0	20
1474	Potential force dynamics of heart rate variability reflect cardiac autonomic modulation with respect to posture, age, and breathing pattern. Computers in Biology and Medicine, 2015, 64, 197-207.	7.0	13
1475	Combined heart rate variability and dynamic measures for quantitatively characterizing the cardiac stress status during cycling exercise. Computers in Biology and Medicine, 2015, 63, 133-142.	7.0	16
1476	Detrended fluctuation analysis as a regression framework: Estimating dependence at different scales. Physical Review E, 2015, 91, 022802.	2.1	71
1477	Long-Memory Trends in Disturbances of Radon in Soil Prior to the Twin ML=5.1 Earthquakes of 17 November 2014 Greece. Journal of Earth Science & Climatic Change, 2015, 06, .	0.2	11
1478	Variations of heart rate variability parameters prior to the onset of ventricular tachyarrhythmia and sinus tachycardia in ICD patients. Results from the heart rate variability analysis with automated ICDs (HAWAI) registry. Physiological Measurement, 2015, 36, 1047-1061.	2.1	13
1479	SCD-HeFT: Use of R-R interval statistics for long-term risk stratification for arrhythmic sudden cardiac death. Heart Rhythm, 2015, 12, 2058-2066.	0.7	25

#	Article	IF	Citations
1480	Effects of breathing patterns and light exercise on linear and nonlinear heart rate variability. Applied Physiology, Nutrition and Metabolism, 2015, 40, 762-768.	1.9	32
1481	Advances in heart rate variability signal analysis: joint position statement by the e-Cardiology ESC Working Group and the European Heart Rhythm Association co-endorsed by the Asia Pacific Heart Rhythm Society. Europace, 2015, 17, 1341-1353.	1.7	589
1482	Non-Linear Heart Rate Variability Indices in the Frequent Hemodialysis Network Trials of Chronic Hemodialysis Patients. Blood Purification, 2015, 40, 99-108.	1.8	8
1483	Internet of Things. User-Centric IoT. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , .	0.3	6
1484	Temporal Structure of Support Surface Translations Drive the Temporal Structure of Postural Control During Standing. Annals of Biomedical Engineering, 2015, 43, 2699-2707.	2.5	10
1485	Using Continuous Glucose Monitoring Data and Detrended Fluctuation Analysis to Determine Patient Condition. Journal of Diabetes Science and Technology, 2015, 9, 1327-1335.	2.2	13
1486	What COP and Kinematic Parameters Better Characterize Postural Control in Standing Balance Tasks?. Journal of Motor Behavior, 2015, 47, 550-562.	0.9	30
1487	Emergent complexity matching in interpersonal coordination: Local dynamics and global variability.. Journal of Experimental Psychology: Human Perception and Performance, 2015, 41, 723-737.	0.9	31
1488	Multifractal detrended cross-correlation analysis of coding and non-coding DNA sequences through chaos-game representation. Physica A: Statistical Mechanics and Its Applications, 2015, 436, 596-603.	2.6	22
1489	A comparison of heart rate variability in women at the third trimester of pregnancy and during low-risk labour. Physiology and Behavior, 2015, 149, 255-261.	2.1	21
1490	Impact of Scaling Range on the Effectiveness of Detrending Methods. Acta Physica Polonica A, 2015, 127, A-59-A-65.	0.5	6
1491	Linear and nonlinear dynamics of heart rate variability in the process of exposure to 3600Âm in 10Âmin. Australasian Physical and Engineering Sciences in Medicine, 2015, 38, 263-270.	1.3	9
1492	Comparison of sEMG-Based Feature Extraction and Motion Classification Methods for Upper-Limb Movement. Sensors, 2015, 15, 9022-9038.	3.8	61
1493	Multifractal characterization of protein contact networks. Physica A: Statistical Mechanics and Its Applications, 2015, 428, 302-313.	2.6	19
1494	Multifractal Detrended Cross-correlation Analysis of Market Clearing Price of electricity and SENSEX in India. Physica A: Statistical Mechanics and Its Applications, 2015, 434, 52-59.	2.6	7
1495	Combining latent class analysis labeling with multiclass approach for fetal heart rate categorization. Physiological Measurement, 2015, 36, 1001-1024.	2.1	9
1496	Assessment of the relative ratio of correlated and uncorrelated waiting times in the Southern California earthquakes catalogue. Physica A: Statistical Mechanics and Its Applications, 2015, 433, 291-303.	2.6	9
1497	Coordination of digit force variability during dominant and non-dominant sustained precision pinch. Experimental Brain Research, 2015, 233, 2053-2060.	1.5	26

#	Article	IF	Citations
1498	Automatic detection of sleep apnea based on EEG detrended fluctuation analysis and support vector machine. Journal of Clinical Monitoring and Computing, 2015, 29, 767-772.	1.6	50
1499	An Obstructive Sleep Apnea Detection Approach Using Kernel Density Classification Based on Single-Lead Electrocardiogram. Journal of Medical Systems, 2015, 39, 47.	3.6	31
1500	Long range temporal correlations in EEG oscillations of subclinically depressed individuals: their association with brooding and suppression. Cognitive Neurodynamics, 2015, 9, 53-62.	4.0	22
1501	Correlation between cortical and subcortical neural dynamics on multiple time scales in Parkinsonâ€™s disease. Neuroscience, 2015, 298, 145-160.	2.3	19
1502	Detrended fluctuation analysis of cerebral venous dynamics in newborn mice with intracranial hemorrhage. , 2015, , .		1
1503	The addition of entropy-based regularity parameters improves sleep stage classification based on heart rate variability. Medical and Biological Engineering and Computing, 2015, 53, 415-425.	2.8	28
1504	Paradoxical Response to an Emotional Task:Trait Characteristics and Heart-Rate Dynamics. International Journal of Clinical and Experimental Hypnosis, 2015, 63, 182-197.	1.8	2
1505	Relationship of Fast- and Slow-Timescale Neuronal Dynamics in Human MEG and SEEG. Journal of Neuroscience, 2015, 35, 5385-5396.	3.6	60
1506	Dynamical disease: Challenges for nonlinear dynamics and medicine. Chaos, 2015, 25, 097603.	2.5	59
1507	Multiscale multifractal detrended cross-correlation analysis of traffic flow. Nonlinear Dynamics, 2015, 81, 1329-1347.	5.2	18
1508	Formation of functional associations across time scales in the fetal autonomic control system â€” A multifractal analysis. Autonomic Neuroscience: Basic and Clinical, 2015, 190, 33-39.	2.8	5
1509	Adaptive correlation dimension method for analysing heart rate variability during the menstrual cycle. Australasian Physical and Engineering Sciences in Medicine, 2015, 38, 509-523.	1.3	8
1510	Heart rate variability density analysis (Dyx) for identification of appropriate implantable cardioverter defibrillator recipients among elderly patients with acute myocardial infarction and left ventricular systolic dysfunction. Europace, 2015, 17, 1848-1854.	1.7	4
1511	The diagnostic line: A novel criterion for condition monitoring of rotating machinery. ISA Transactions, 2015, 59, 232-242.	5.7	13
1512	Distinguishing short and longFermigamma-ray bursts. Monthly Notices of the Royal Astronomical Society, 2015, 454, 1132-1139.	4.4	17
1513	Classification of cardiac rhythm using heart rate dynamical measures: validation in MITâ€“BIH databases. Journal of Electrocardiology, 2015, 48, 943-946.	0.9	18
1514	Heart rate dynamics distinguish among atrial fibrillation, normal sinus rhythm and sinus rhythm with frequent ectopy. Physiological Measurement, 2015, 36, 1873-1888.	2.1	87
1515	Alterations in circadian entrainment precede the onset of depression-like behavior that does not respond to fluoxetine. Translational Psychiatry, 2015, 5, e603-e603.	4.8	21

#	Article	IF	Citations
1516	Characterization of vehicle behavior with information theory. European Physical Journal B, 2015, 88, 1.	1.5	20
1517	Gait variability and motor control in people with knee osteoarthritis. Gait and Posture, 2015, 42, 479-484.	1.4	33
1518	Affective states asessment system based on heart rate and facial expressions using LabVIEW. , 2015, , .		0
1519	Asymmetric statistical features of the Chinese domestic and international gold price fluctuation. International Journal of Modern Physics B, 2015, 29, 1550113.	2.0	7
1520	Production and Convergence of Multiscale Clustering in Speech. Ecological Psychology, 2015, 27, 222-235.	1.1	13
1521	Multifractal Detrended Fluctuation Analysis of alpha and theta EEG rhythms with musical stimuli. Chaos, Solitons and Fractals, 2015, 81, 52-67.	5.1	71
1522	Automatic Seizure Detection in EEG Based on Sparse Representation and Wavelet Transform. Lecture Notes in Computer Science, 2015, , 197-205.	1.3	0
1523	A Novel Depression Diagnosis Index Using Nonlinear Features in EEG Signals. European Neurology, 2015, 74, 79-83.	1.4	201
1524	A New Approach for Physiological Time Series. Advances in Adaptive Data Analysis, 2015, 07, 1550001.	0.6	0
1525	Plasma membrane poration by opioid neuropeptides: a possible mechanism of pathological signal transduction. Cell Death and Disease, 2015, 6, e1683-e1683.	6.3	13
1526	Large deviations estimates for the multiscale analysis of traffic speed time series. Physica A: Statistical Mechanics and Its Applications, 2015, 421, 562-570.	2.6	10
1527	Long-range correlations and trends in Colombian seismic time series. Physica A: Statistical Mechanics and Its Applications, 2015, 421, 124-133.	2.6	31
1528	Multiscale multifractal diffusion entropy analysis of financial time series. Physica A: Statistical Mechanics and Its Applications, 2015, 420, 221-228.	2.6	21
1530	Reliability analysis for sluice gate anti-sliding stability using LÃ©vy stable distributions. Signal Processing, 2015, 107, 425-432.	3.7	5
1531	Glucose series complexity at the threshold of diabetes ç³–å°¿ç—…é˜ˆå€¼çš„è¡€ç³–åºåˆ—çš„å¤æ‚æ€§. Journal of Diabetes, 2015, 7, 287-2	1.8	5
1532	Multifractal analysis of Asian markets during 2007â€“2008 financial crisis. Physica A: Statistical Mechanics and Its Applications, 2015, 419, 746-761.	2.6	66
1533	Spatiotemporal phase clusters and phase synchronization patterns derived from high density EEG and ECoG recordings. Current Opinion in Neurobiology, 2015, 31, 127-132.	4.2	14
1534	The fluctuation spectroscopy based on the scaling properties of beta-distribution: Analysis of triple pendulum data. Mechanical Systems and Signal Processing, 2015, 52-53, 278-292.	8.0	2

#	Article	IF	Citations
1535	Memory effects in stock price dynamics: evidences of technical trading. Scientific Reports, 2014, 4, 4487.	3.3	17
1537	Influence of High Energy Electromagnetic Pulses on the Dynamics of the Seismic Process Around the Bishkek Test Area (Central Asia). Pure and Applied Geophysics, 2015, 172, 1893-1908.	1.9	1
1538	Multifractality in seismic sequences of NW Himalaya. Natural Hazards, 2015, 77, 19-32.	3.4	18
1539	Investigating the dynamical features of the time distribution of the reservoir-induced seismicity in Enguri area (Georgia). Natural Hazards, 2015, 77, 117-125.	3.4	9
1540	Respiratory Variability during Sleep in Methadone Maintenance Treatment Patients. Journal of Clinical Sleep Medicine, 2016, 12, 607-616.	2.6	16
1541	Assessment of fetal development by HRV and chaotic global techniques. Journal of Human Growth and Development, 2016, 26, 162.	0.6	5
1542	Effects of Resistance Training on Autonomic Nervous Function in Older Individuals. , 0, , .		0
1543	Healthcare Analytics: From Data to Knowledge to Healthcare Improvement. , 2016, , .		12
1544	Non-Linear Techniques Reveal Adaptive and Maladaptive Postural Control Dynamics in Persons with Multiple Sclerosis. Journal of Multiple Sclerosis, 2016, 03, .	0.1	1
1545	Time-Frequency Methodologies in Neurosciences. , 2016, , 915-966.		2
1546	Detrended Fluctuation Analysis and Hough Transform Based Self-Adaptation Double-Scale Feature Extraction of Gear Vibration Signals. Shock and Vibration, 2016, 2016, 1-9.	0.6	9
1547	Nonlinearity and Fractal Properties of Climate Change during the Past 500 Years in Northwestern China. Discrete Dynamics in Nature and Society, 2016, 2016, 1-7.	0.9	9
1548	Effects of Tactile Sensitivity on Structural Variability of Digit Forces during Stable Precision Grip. BioMed Research International, 2016, 2016, 1-7.	1.9	11
1549	Quantifying Correlation of Digit Force Regulation for Stable Grip Control with Simulated Tactile Deficits. , 2016, , .		0
1550	Multifractal Analysis for Soft Fault Feature Extraction of Nonlinear Analog Circuits. Mathematical Problems in Engineering, 2016, 2016, 1-7.	1.1	3
1551	Delay in the Detrended Fluctuation Analysis Crossover Point as a Risk Factor for Type 2 Diabetes Mellitus. Journal of Diabetes Research, 2016, 2016, 1-6.	2.3	7
1552	HRVanalysis: A Free Software for Analyzing Cardiac Autonomic Activity. Frontiers in Physiology, 2016, 7, 557.	2.8	106
1553	The Parkinsonian Subthalamic Network: Measures of Power, Linear, and Non-linear Synchronization and their Relationship to L-DOPA Treatment and OFF State Motor Severity. Frontiers in Human Neuroscience, 2016, 10, 517.	2.0	28

#	Article	IF	Citations
1554	State Anxiety and Nonlinear Dynamics of Heart Rate Variability in Students. PLoS ONE, 2016, 11, e0146131.	2.5	71
1555	Detrended Fluctuation Analysis of Heart Rate Dynamics Is an Important Prognostic Factor in Patients with End-Stage Renal Disease Receiving Peritoneal Dialysis. PLoS ONE, 2016, 11, e0147282.	2.5	40
1556	Classification of Asthma Based on Nonlinear Analysis of Breathing Pattern. PLoS ONE, 2016, 11, e0147976.	2.5	48
1557	Silent Reading Fluency and Comprehension in Bilingual Children. Frontiers in Psychology, 2016, 7, 1265.	2.1	10
1558	On the detection of superdiffusive behaviour in time series. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 123205.	2.3	3
1559	Using uterine activity to improve fetal heart rate variability analysis for detection of asphyxia during labor. Physiological Measurement, 2016, 37, 387-400.	2.1	20
1560	From big data to important information. Complexity, 2016, 21, 73-98.	1.6	31
1561	Global chaotic parameters of heart rate variability during mental task. Complexity, 2016, 21, 300-307.	1.6	4
1562	Blink rate variability during resting and reading sessions. , 2016, , .		8
1563	Prediction of mortality in patients with sepsis using detrended fluctuation analysis of Heart Rate Variability. , 2016, , .		2
1564	Characterizing dynamic hysteresis and fractal statistics of chaotic two-phase flow and application to fuel cells. Physics of Fluids, 2016, 28, .	4.0	3
1565	Nonlinear dynamics methods for tachogram series analysis based on detrended fluctuation analysis and Higuchiâ€™s fractal dimension. AIP Conference Proceedings, 2016, , .	0.4	0
1566	The long-range temporal correlations of broadband EEG oscillations in poststroke depression subjects with basal ganglia infarction. , 2016, 2016, 1830-1833.		1
1567	Detrended fluctuation analysis of EEG recordings for epileptic seizure detection. , 2016, , .		7
1568	Data preparation step for automated diagnosis based on HRV analysis and machine learning. , 2016, , .		2
1569	Non-Gaussian and persistence measures for control loop quality assessment. Chaos, 2016, 26, 043105.	2.5	20
1570	Multi-complexity measures of heart rate variability and the effect of vasopressor titration: a prospective cohort study of patients with septic shock. BMC Infectious Diseases, 2016, 16, 551.	2.9	8
1571	Long-range correlations in amplitude variability of HF and LF components of heart rate variability. , 2016, 2016, 6218-6221.		2

#	Article	IF	Citations
1572	Long-term monitoring of heart rate variability toward practical use in intensive/high care unit. , 2016, , .		0
1573	Age-related variation in EEG to music stimulation: A nonlinear analysis. , 2016, , .		1
1574	Nonlinear Characterization of Heart Rate Variability in Normal Sinus Rhythm, Atrial Fibrillation and Congestive Heart Failure. , 2016, , .		1
1575	Complexity in congestive heart failure: A time-frequency approach. Chaos, 2016, 26, 033105.	2.5	24
1576	Scaling Behavior of bulk freight rate volatility before and after noise reduction. Journal of Shanghai Jiaotong University (Science), 2016, 21, 655-661.	0.9	1
1577	Self-similar characteristics of single nucleotide polymorphisms in the rice genome. Journal of the Korean Physical Society, 2016, 69, 1591-1596.	0.7	0
1578	Relationships between heart rate variability and aortic hemodynamic variables in healthy subjects. Hellenic Journal of Cardiology, 2016, 57, 359-362.	1.0	1
1579	Entropy-based complexity measures for gait data of patients with Parkinson's disease. Chaos, 2016, 26, 023115.	2.5	17
1580	Novel application of multi dynamic trend analysis as a sensitive tool for detecting the effects of aging and congestive heart failure on heart rate variability. Chaos, 2016, 26, 023109.	2.5	10
1581	Irregular Liesegang-type patterns in gas phase revisited. II. Statistical correlation analysis. Journal of Chemical Physics, 2016, 144, 174702.	3.0	3
1582	Detrended fluctuation analysis of the Ornstein-Uhlenbeck process: Stationarity versus nonstationarity. Chaos, 2016, 26, 113109.	2.5	5
1583	Logistic regression models for predicting intraventricular haemorrhage in preterm infants using respiratory and blood pressure signals. , 2016, , .		0
1584	Least Squares Support Vector Machines for FHR Classification and Assessing the pH Based Categorization. IFMBE Proceedings, 2016, , 1211-1215.	0.3	7
1585	Advanced Signal Processing Techniques for CTG Analysis. IFMBE Proceedings, 2016, , 1205-1210.	0.3	1
1586	Identifying the Transition from Efficient-Market to Herding Behavior: Using a Method from Econophysics. Journal of Behavioral Finance, 2016, 17, 157-182.	1.7	9
1587	Heartbeat scaling in early adolescents: Its association with anxiety symptoms and sensitivity to punishment. International Journal of Clinical and Health Psychology, 2016, 16, 287-294.	5.1	6
1588	Modulation of critical brain dynamics using closed-loop neurofeedback stimulation. Clinical Neurophysiology, 2016, 127, 2882-2889.	1.5	22
1589	Delay-correlation landscape reveals characteristic time delays of brain rhythms and heart interactions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150182.	3.4	79

#	Article	IF	Citations
1590	Fractal scaling in bottlenose dolphin (Tursiops truncatus) echolocation: A case study. Physica A: Statistical Mechanics and Its Applications, 2016, 443, 221-230.	2.6	4
1591	The effects of altering attentional demands of gait control on the variability of temporal and kinematic parameters. Gait and Posture, 2016, 47, 57-61.	1.4	4
1592	Noise-induced loss of multifractality in the dynamics of oscillating systems. , 2016, , .		0
1593	Non-linear Methods in HRV Analysis. Procedia Technology, 2016, 22, 645-651.	1.1	21
1594	Identification of Chaos-Periodic Transitions, Band Merging, and Internal Crisis Using Wavelet-DFA Method. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650065.	1.7	3
1595	Impact of substance P on the correlation of spike train evoked by electro acupuncture. Chaos, Solitons and Fractals, 2016, 87, 249-254.	5.1	1
1596	Glucose Complexity Estimates Insulin Resistance in Either Nondiabetic Individuals or in Type 1 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 1490-1497.	3.6	17
1597	The Effects of Pharmacological Compounds on Beat Rate Variations in Human Long QT-Syndrome Cardiomyocytes. Stem Cell Reviews and Reports, 2016, 12, 698-707.	5.6	14
1598	Chile2015: LÃ©vy Flight and Long-Range Correlation Analysis of Earthquake Magnitudes in Chile. Pure and Applied Geophysics, 2016, 173, 2257-2266.	1.9	3
1599	Analytical and empirical fluctuation functions of the EEG microstate random walk - Short-range vs. long-range correlations. NeuroImage, 2016, 141, 442-451.	4.2	27
1600	Finite-size effect and the components of multifractality in transport economics volatility based on multifractal detrending moving average method. Physica A: Statistical Mechanics and Its Applications, 2016, 462, 1058-1066.	2.6	18
1601	Nonlinear filtering properties of detrended fluctuation analysis. Physica A: Statistical Mechanics and Its Applications, 2016, 462, 807-815.	2.6	23
1602	Surface nuclear magnetic resonance signals recovery by integration of a nonâ€linear decomposition method with statistical analysis. Geophysical Prospecting, 2016, 64, 489-504.	1.9	12
1603	Time and frequency domain characteristics of detrending-operation-based scaling analysis: Exact DFA and DMA frequency responses. Physical Review E, 2016, 94, 012111.	2.1	19
1604	Paroxysmal atrial fibrillation prediction method with shorter HRV sequences. Computer Methods and Programs in Biomedicine, 2016, 134, 187-196.	4.7	52
1605	Hybrid agent-based model for quantitative in-silico cell-free protein synthesis. BioSystems, 2016, 150, 22-34.	2.0	7
1606	Non-linear fractal analysis of ECG signal collected from Maternal and normal sinus women. , 2016, , .		2
1607	Temporal Taylorâ€™s scaling of facial electromyography and electrodermal activity in the course of emotional stimulation. Chaos, Solitons and Fractals, 2016, 90, 91-100.	5.1	7

#	Article	IF	Citations
1608	Heart rhythm complexity impairment in patients undergoing peritoneal dialysis. Scientific Reports, 2016, 6, 28202.	3.3	24
1610	Exogenous oxytocin reduces signs of sickness behavior and modifies heart rate fluctuations of endotoxemic rats. Physiology and Behavior, 2016, 165, 223-230.	2.1	15
1611	On the relationship between the Hurst exponent, the ratio of the mean square successive difference to the variance, and the number of turning points. Physica A: Statistical Mechanics and Its Applications, 2016, 461, 662-673.	2.6	35
1612	Fast algorithm for scaling analysis with higher-order detrending moving average method. Physical Review E, 2016, 93, 053304.	2.1	24
1613	Detrending moving average algorithm: Frequency response and scaling performances. Physical Review E, 2016, 93, 063309.	2.1	33
1614	Holism-based features for target classification in focused and complex-valued synthetic aperture radar imagery. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 786-808.	4.7	12
1615	Disorder profile of nebulin encodes a vernierlike position sensor for the sliding thin and thick filaments of the skeletal muscle sarcomere. Physical Review E, 2016, 93, 062406.	2.1	4
1616	Fluctuation analysis of high frequency electric power load in the Czech Republic. Physica A: Statistical Mechanics and Its Applications, 2016, 462, 951-961.	2.6	9
1617	A Method for Identification of Critical States of Open Stochastic Dynamical Systems Based on the Analysis of Acceleration. Journal of Statistical Physics, 2016, 165, 681-692.	1.2	5
1618	Fluctuation Analysis of Redox Potential to Distinguish Microbial Fe(II) Oxidation. Astrobiology, 2016, 16, 846-852.	3.0	5
1619	Detrended fluctuation analysis of compound action potentials re-corded in the cutaneous nerves of diabetic rats. Chaos, Solitons and Fractals, 2016, 83, 223-233.	5.1	2
1620	The suppression of scale-free fMRI brain dynamics across three different sources of effort: aging, task novelty and task difficulty. Scientific Reports, 2016, 6, 30895.	3.3	64
1621	Sleep Assessment in Large Cohort Studies with High-Resolution Accelerometers. Sleep Medicine Clinics, 2016, 11, 469-488.	2.6	16
1622	Griffiths phase and long-range correlations in a biologically motivated visual cortex model. Scientific Reports, 2016, 6, 29561.	3.3	20
1623	Statistical Modeling of Electrocardiography Signal for Subject Monitoring and Diagnosis. , 0, , 95-126.		0
1624	Phase transition in the parametric natural visibility graph. Physical Review E, 2016, 94, 042137.	2.1	8
1625	Fractal time series analysis of postural stability. Equilibrium Research, 2016, 75, 154-161.	0.1	1
1626	Investigation of complexity dynamics in a DC glow discharge magnetized plasma using recurrence quantification analysis. Physics of Plasmas, 2016, 23, .	1.9	6

#	Article	IF	Citations
1627	Switching Dynamics Between Two Movement Patterns Varies According to Time Interval. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1630026.	1.7	3
1628	Probing the Fractal Pattern of Heartbeats in Drosophila Pupae by Visible Optical Recording System. Scientific Reports, 2016, 6, 31950.	3.3	1
1629	Heart rate variability analysis by chaotic global techniques in children with attention deficit hyperactivity disorder. Complexity, 2016, 21, 412-419.	1.6	21
1630	Fractal Fluctuations in Human Walking: Comparison Between Auditory and Visually Guided Stepping. Annals of Biomedical Engineering, 2016, 44, 2785-2793.	2.5	48
1631	Complexity and nonlinear biomarkers in emotional disorders: A meta-analytic study. Neuroscience and Biobehavioral Reviews, 2016, 68, 410-422.	6.1	37
1632	Predicting Mood Changes in Bipolar Disorder Through Heartbeat Nonlinear Dynamics. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 1034-1043.	6.3	51
1633	Long-Range Temporal Correlations in the amplitude of alpha oscillations predict and reflect strength of intracortical facilitation: Combined TMS and EEG study. Neuroscience, 2016, 331, 109-119.	2.3	18
1634	Radioluminescence properties of the CdSe/ZnS Quantum Dot nanocrystals with analysis of long-memory trends. Radiation Measurements, 2016, 92, 19-31.	1.4	20
1635	A novel method for detecting abrupt dynamic change based on the changing Hurst exponent of spatial images. Climate Dynamics, 2016, 47, 2561-2571.	3.8	13
1636	The dynamics of cardiac autonomic control in sleeping preterm neonates exposed in utero to smoking. Clinical Neurophysiology, 2016, 127, 2871-2877.	1.5	13
1637	Equally moved and not really sick from viewing 2D and 3D motion stimuli on a TV screen. Displays, 2016, 41, 9-15.	3.7	5
1638	Effect of salt intake on beat-to-beat blood pressure nonlinear dynamics and entropy in salt-sensitive versus salt-protected rats. Physiological Reports, 2016, 4, e12823.	1.7	12
1639	Multi-Scale Long-Range Magnitude and Sign Correlations in Vertical Upward Oilâ€“Gasâ€“Water Three-Phase Flow. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2016, 71, 33-43.	1.5	9
1640	Compressive Sensing of Foot Gait Signals and Its Application for the Estimation of Clinically Relevant Time Series. IEEE Transactions on Biomedical Engineering, 2016, 63, 1401-1415.	4.2	14
1641	Orthostatic stress causes immediately increased blood pressure variability in women with vasovagal syncope. Computer Methods and Programs in Biomedicine, 2016, 127, 185-196.	4.7	17
1642	Evaluating the clinical value of oscillatory cardiopulmonary coupling in patients with obstructive sleep apnea hypopnea syndrome by impedance cardiogram. Sleep Medicine, 2016, 19, 75-84.	1.6	3
1643	Hemispheric asymmetry non-linear analysis of EEG during emotional responses from idiopathic Parkinsonâ€™s disease patients. Cognitive Neurodynamics, 2016, 10, 225-234.	4.0	33
1644	Investigation of long-range dependencies in the stochastic part of daily GPS solutions. Survey Review, 2016, 48, 140-147.	1.2	4

#	Article	IF	Citations
1645	Effect of urbanization on the long-term persistence of streamflow records. Physica A: Statistical Mechanics and Its Applications, 2016, 447, 208-221.	2.6	15
1646	Model selection for identifying power-law scaling. NeuroImage, 2016, 136, 215-226.	4.2	30
1647	The effect of footwear and footfall pattern on running stride interval long-range correlations and distributional variability. Gait and Posture, 2016, 44, 137-142.	1.4	21
1648	A spike correction approach for variability analysis of heart rate sick infants. Physica A: Statistical Mechanics and Its Applications, 2016, 444, 35-42.	2.6	17
1649	Fractal Methods in the Investigation of the Time Dynamics of Fires: An Overview. Springer Earth System Sciences, 2016, , 117-152.	0.2	0
1650	Multiscale cross-correlation analysis based on DFA and DCCA: Evidence from stock market in Shanghai. Journal of Interdisciplinary Mathematics, 2016, 19, 163-175.	0.7	1
1651	Patterns of temporal scaling of groundwater level fluctuation. Journal of Hydrology, 2016, 536, 485-495.	5.4	23
1652	Heart Rate Variability Density Analysis (Dyx) and Prediction of Long-Term Mortality after Acute Myocardial Infarction. , 2016, 21, 60-68.		12
1653	Surface electromyography analysis of blepharoptosis correction by transconjunctival incisions. Journal of Electromyography and Kinesiology, 2016, 28, 23-30.	1.7	0
1654	Working memory performance inversely predicts spontaneous delta and theta-band scaling relations. Brain Research, 2016, 1637, 22-33.	2.2	13
1655	Evenly spacing in Detrended Fluctuation Analysis. Physica A: Statistical Mechanics and Its Applications, 2016, 451, 63-69.	2.6	63
1656	Comparing dynamical systems concepts and techniques for biomechanical analysis. Journal of Sport and Health Science, 2016, 5, 3-13.	6.5	129
1657	Dissimilarity measure based on ordinal pattern for physiological signals. Communications in Nonlinear Science and Numerical Simulation, 2016, 37, 115-124.	3.3	14
1658	Men and women should be separately investigated in studies of orthostatic challenge due to different gender-related dynamics of autonomic response. Physiological Measurement, 2016, 37, 314-332.	2.1	20
1659	Variation of the scaling characteristics of temporal and spatial distribution of earthquakes in Caucasus. Physica A: Statistical Mechanics and Its Applications, 2016, 449, 136-144.	2.6	9
1660	Assessment of fetal maturation age by heart rate variability measures using random forest methodology. Computers in Biology and Medicine, 2016, 70, 157-162.	7.0	17
1661	Variations in task constraints shape emergent performance outcomes and complexity levels in balancing. Experimental Brain Research, 2016, 234, 1611-1622.	1.5	17
1662	Comparative analysis of different fractal methods in studying post-ictal ECG signals of epilepsy patient. , 2016, , .		6

#	Article	IF	Citations
1663	Transition from lognormal to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si7.gif" display="inline" overflow="scroll"><mml:msup><mml:mrow><mml:mi>Ï‡</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></m for financial time series. Physica A: Statistical Mechanics and Its Applications, 2016, 453, 173-183.	2.6	22
1664	Universal and non-universal properties of recurrence intervals of rare events. Physica A: Statistical Mechanics and Its Applications, 2016, 448, 132-143.	2.6	6
1665	Dynamic characterization of an anaerobic digester during the start-up phase by pH time-series analysis. Chaos, Solitons and Fractals, 2016, 82, 125-130.	5.1	6
1666	A study of temperature sensor location based on fractal analysis for cascade control schemes in tubular reactors. Chemical Engineering Science, 2016, 141, 195-204.	3.8	11
1667	Fractal Solutions for Understanding Complex Systems in Earth Sciences. Springer Earth System Sciences, 2016, , .	0.2	9
1668	Quantifying long-range correlations with a multiscale ordinal pattern approach. Physica A: Statistical Mechanics and Its Applications, 2016, 445, 283-294.	2.6	13
1669	A picture for the coupling of unemployment and inflation. Physica A: Statistical Mechanics and Its Applications, 2016, 444, 744-750.	2.6	10
1670	Study on Brain Dynamics by Non Linear Analysis of Music Induced EEG Signals. Physica A: Statistical Mechanics and Its Applications, 2016, 444, 110-120.	2.6	64
1671	Fibromyalgia beyond reductionism. Heart rhythm fractal analysis to assess autonomic nervous system resilience. Scandinavian Journal of Rheumatology, 2016, 45, 151-157.	1.1	10
1672	Multivariate Control Loop Performance Assessment With Hurst Exponent and Mahalanobis Distance. IEEE Transactions on Control Systems Technology, 2016, 24, 1067-1074.	5.2	18
1673	Characterizing cerebrovascular dynamics with the wavelet-based multifractal formalism. Physica A: Statistical Mechanics and Its Applications, 2016, 442, 149-155.	2.6	8
1674	Separating Fractal and Oscillatory Components in the Power Spectrum of Neurophysiological Signal. Brain Topography, 2016, 29, 13-26.	1.8	243
1675	Nonlinear analysis of pupillary dynamics. Biomedizinische Technik, 2016, 61, 95-106.	0.8	13
1676	Permutation and weighted-permutation entropy analysis for the complexity of nonlinear time series. Communications in Nonlinear Science and Numerical Simulation, 2016, 31, 60-68.	3.3	48
1677	Fractal behavior of traffic volume on urban expressway through adaptive fractal analysis. Physica A: Statistical Mechanics and Its Applications, 2016, 443, 518-525.	2.6	13
1678	Weighted multifractal cross-correlation analysis based on Shannon entropy. Communications in Nonlinear Science and Numerical Simulation, 2016, 30, 268-283.	3.3	47
1679	Impact of previous one-step variation in positively long-range correlated processes. Theoretical and Applied Climatology, 2016, 124, 339-347.	2.8	3
1680	Detrended fluctuation analysis of multivariate time series. Communications in Nonlinear Science and Numerical Simulation, 2017, 42, 12-21.	3.3	44

#	Article	IF	Citations
1681	Glucose time series complexity as a predictor of type 2 diabetes. Diabetes/Metabolism Research and Reviews, 2017, 33, e2831.	4.0	16
1682	Disruption of right posterior parietal cortex by continuous Theta Burst Stimulation alters the control of body balance in quiet stance. European Journal of Neuroscience, 2017, 45, 671-678.	2.6	23
1683	Cognitive and movement measures reflect the transition to presence-at-hand. New Ideas in Psychology, 2017, 45, 1-10.	1.9	18
1684	A simple and fast representation space for classifying complex time series. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1021-1028.	2.1	22
1685	Does Nordic Walking restore the temporal organization of gait variability in Parkinsonâ€™s disease?. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 17.	4.6	28
1686	Dynamic properties of calcium-activated chloride currents in Xenopus laevis oocytes. Scientific Reports, 2017, 7, 41791.	3.3	6
1687	Damage detection of structures with detrended fluctuation and detrended cross-correlation analyses. Smart Materials and Structures, 2017, 26, 035027.	3.5	5
1688	Complexity Variability Assessment of Nonlinear Time-Varying Cardiovascular Control. Scientific Reports, 2017, 7, 42779.	3.3	44
1689	Mean Heart Rate Level Does Not Affect All Heart Rate Variability Indices. Hypertension, 2017, 69, e21-e22.	2.7	5
1690	The nonlinear analysis of horizontal oil-water two-phase flow in a small diameter pipe. International Journal of Multiphase Flow, 2017, 92, 39-49.	3.4	21
1691	A COMPARISON OF THREE HURST EXPONENT APPROACHES TO PREDICT NASCENT BUBBLES IN S&P500 STOCKS. Fractals, 2017, 25, 1750006.	3.7	19
1692	The role of sympathetic and vagal cardiac control on complexity of heart rate dynamics. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H469-H477.	3.2	49
1693	Serial heart rhythm complexity changes in patients with anterior wall ST segment elevation myocardial infarction. Scientific Reports, 2017, 7, 43507.	3.3	15
1694	Hemorrhage Prediction Models in Surgical Intensive Care: Bedside Monitoring Data Adds Information to Lab Values. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1703-1710.	6.3	13
1695	Discrimination between different emotional states based on the chaotic behavior of galvanic skin responses. Signal, Image and Video Processing, 2017, 11, 1347-1355.	2.7	21
1696	Neural Mechanisms of Cognitive Dissonance (Revised): An EEG Study. Journal of Neuroscience, 2017, 37, 5074-5083.	3.6	41
1697	The cross-correlation analysis of multi property of stock markets based on MM-DFA. Physica A: Statistical Mechanics and Its Applications, 2017, 481, 23-33.	2.6	11
1698	Fluctuation Metrics as Novel Endpoints for Clinical Trials in Asthma. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 967-968.	5.6	3

#	Article	IF	Citations
1699	Irregular-regular mode oscillations inside plasma bubble and its fractal analysis in glow discharge magnetized plasma. Physics of Plasmas, 2017, 24, .	1.9	4
1700	Non-linear Analysis of Heart Rate Variability. IFMBE Proceedings, 2017, , 173-176.	0.3	2
1701	Relationship in Pacemaker Neurons Between the Long-Term Correlations of Membrane Voltage Fluctuations and the Corresponding Duration of the Inter-Spike Interval. Journal of Membrane Biology, 2017, 250, 249-257.	2.1	2
1702	Recurrence Quantification Analysis of Processes and Products of Discourse: A Tutorial in R. Discourse Processes, 2017, 54, 382-405.	1.8	45
1703	Some stylized facts of the Bitcoin market. Physica A: Statistical Mechanics and Its Applications, 2017, 484, 82-90.	2.6	345
1704	Prediction of intraventricular haemorrhage in preterm infants using time series analysis of blood pressure and respiratory signals. Scientific Reports, 2017, 7, 46538.	3.3	12
1705	Fractal features for automatic detection of dysarthria. , 2017, , .		16
1706	Identification of QRS complex in non-stationary electrocardiogram of sick infants. Computers in Biology and Medicine, 2017, 87, 211-216.	7.0	11
1707	Dynamical characterization of the 1982â€“2015 seismicity of Aswan region (Egypt). Tectonophysics, 2017, 712-713, 132-144.	2.2	15
1708	Shallow divers, deep waters and the rise of behavioural stochasticity. Marine Biology, 2017, 164, 1.	1.5	14
1709	Non-Stationary Bayesian Learning for Global Sustainability. IEEE Transactions on Sustainable Computing, 2017, 2, 304-316.	3.1	2
1710	Effects of Orthostatism and Hemodialysis on Mean Heart Period and Fractal Heart Rate Properties of Chronic Renal Failure Patients. Artificial Organs, 2017, 41, 1026-1034.	1.9	11
1711	Systolic blood pressure variability in patients with early severe sepsis or septic shock: a prospective cohort study. BMC Anesthesiology, 2017, 17, 82.	1.8	17
1712	Temporal scaling phenomena in groundwater-floodplain systems using robust detrended fluctuation analysis. Journal of Hydrology, 2017, 549, 715-730.	5.4	24
1713	Identification of key outcome measures when using the instrumented timed up and go and/or posturography for fall screening. Gait and Posture, 2017, 57, 168-171.	1.4	15
1714	A Spectral Exponent-Based Feature of RR Interval Data for Congestive Heart Failure Discrimination Using a Wavelet-Based Approach. Journal of Medical and Biological Engineering, 2017, 37, 276-287.	1.8	2
1715	Epileptogenic focus localization using complexity analysis of BOLD signals. , 2017, , .		0
1716	Association of Holter-Derived Heart Rate Variability Parameters With the Development of Congestive Heart Failure in the Cardiovascular Health Study. JACC: Heart Failure, 2017, 5, 423-431.	4.1	61

#	Article	IF	Citations
1717	Effects of visual and auditory guidance on bimanual coordination complexity. Human Movement Science, 2017, 54, 13-23.	1.4	7
1718	Epileptogenic focus localization using complexity analysis of BOLD signals. , 2017, , .		0
1719	Promise of a New Role for Heart Rate Variability in the Clinical Management of Patients With Heart Failure â^—. JACC: Heart Failure, 2017, 5, 432-434.	4.1	3
1720	Fractal analysis provides new insights into the complexity of marine mammal behavior: A review, two methods, their application to diving and surfacing patterns, and their relevance to marine mammal welfare assessment. Marine Mammal Science, 2017, 33, 847-879.	1.8	8
1721	Fractal scaling behavior of heart rate variability in response to meditation techniques. Chaos, Solitons and Fractals, 2017, 99, 57-62.	5.1	9
1722	Effect of whole-body vibration on center-of-mass movement during standing in children and young adults. Gait and Posture, 2017, 54, 148-153.	1.4	14
1723	An analysis for features of geospatially rescaled range analysis method and spatial scaling behavior. Nonlinear Dynamics, 2017, 89, 243-254.	5.2	2
1724	Cross-correlation analysis of interfacial wave and droplet entrainment in horizontal liquid-liquid two-phase flows. Chemical Engineering Journal, 2017, 320, 416-426.	12.7	26
1725	Modular co-organization of functional connectivity and scale-free dynamics in the human brain. Network Neuroscience, 2017, 1, 143-165.	2.6	48
1726	EEG signal classification using PSO trained RBF neural network for epilepsy identification. Informatics in Medicine Unlocked, 2017, 6, 1-11.	3.4	61
1727	A stochastic and integrative model of breathing. Respiratory Physiology and Neurobiology, 2017, 237, 51-56.	1.6	9
1728	Role of intensive and extensive variables in a soup of firms in economy to address long run prices and aggregate data. Physica A: Statistical Mechanics and Its Applications, 2017, 470, 51-59.	2.6	3
1729	Fractal fluctuations in spatiotemporal variables when walking on a self-paced treadmill. Journal of Biomechanics, 2017, 65, 154-160.	2.1	24
1730	Multifractality Versus (Mono-) Fractality as Evidence of Nonlinear Interactions Across Timescales: Disentangling the Belief in Nonlinearity From the Diagnosis of Nonlinearity in Empirical Data. Ecological Psychology, 2017, 29, 259-299.	1.1	38
1731	Extremes of fractional noises: A model for the timings of arrhythmic heart beats in post-infarction patients. Chaos, 2017, 27, 093942.	2.5	2
1732	Regularity of beating of small clusters of embryonic chick ventricular heart-cells: experiment vs. stochastic single-channel population model. Chaos, 2017, 27, 093929.	2.5	10
1733	Infinite invariant densities due to intermittency in a nonlinear oscillator. Physical Review E, 2017, 96, 022217.	2.1	14
1734	The inefficiency of Bitcoin revisited: A dynamic approach. Economics Letters, 2017, 161, 1-4.	1.9	466

#	Article	IF	Citations
1735	The effect of respiratory oscillations in heart rate on detrended fluctuation analysis. European Physical Journal B, 2017, 90, 1.	1.5	1
1736	ALCOHOLIC INDEX USING NON-LINEAR FEATURES EXTRACTED FROM DIFFERENT FREQUENCY BANDS. Journal of Mechanics in Medicine and Biology, 2017, 17, 1740009.	0.7	0
1737	Measuring vocal motor skill with a virtual voice-controlled slingshot. Journal of the Acoustical Society of America, 2017, 142, 1199-1212.	1.1	6
1738	Heart rate variability feature selection in the presence of sleep apnea: An expert system for the characterization and detection of the disorder. Computers in Biology and Medicine, 2017, 91, 47-58.	7.0	44
1739	Long-range temporal correlations of broadband EEG oscillations for depressed subjects following different hemispheric cerebral infarction. Cognitive Neurodynamics, 2017, 11, 529-538.	4.0	9
1740	Assessing mood symptoms through heartbeat dynamics: An HRV study on cardiosurgical patients. Journal of Psychiatric Research, 2017, 95, 179-188.	3.1	8
1741	Temporal changes in motor variability during prolonged lifting/lowering and the influence of work experience. Journal of Electromyography and Kinesiology, 2017, 37, 61-67.	1.7	15
1742	Advanced analyses of physiological signals in the neonatal intensive care unit. Physiological Measurement, 2017, 38, R253-R279.	2.1	4
1743	Sign and magnitude scaling properties of heart rate variability in patients with end-stage renal failure: Are these properties useful to identify pathophysiological adaptations?. Chaos, 2017, 27, 093906.	2.5	13
1744	Power-law scaling of calling dynamics in zebra finches. Scientific Reports, 2017, 7, 8397.	3.3	9
1745	Assessment of seismic hazard of the Japanese islands based on fractal analysis of GPS time series. Izvestiya, Physics of the Solid Earth, 2017, 53, 545-555.	0.9	1
1746	A novel approach to evaluate state estimation approaches for anaerobic digester units under modeling uncertainties: Application to an industrial dairy unit. Journal of Environmental Chemical Engineering, 2017, 5, 4004-4013.	6.7	4
1747	Impact of series length on statistical precision and sensitivity of autocorrelation assessment in human locomotion. Human Movement Science, 2017, 55, 31-42.	1.4	19
1748	Temperature fluctuations in a changing climate: an ensemble-based experimental approach. Scientific Reports, 2017, 7, 254.	3.3	42
1749	Shifts in the light-dark cycle increase unpredictability of the cardiovascular system. Autonomic Neuroscience: Basic and Clinical, 2017, 206, 51-59.	2.8	11
1750	Critical dynamics of endogenous fluctuations predict cognitive flexibility in the Go/NoGo task. Scientific Reports, 2017, 7, 2909.	3.3	31
1751	EEG machine learning for accurate detection of cholinergic intervention and Alzheimerâ€™s disease. Scientific Reports, 2017, 7, 5775.	3.3	65
1752	Intermittency-induced criticality in a resistor-inductor-diode circuit. Physical Review E, 2017, 95, 042206.	2.1	12

#	Article	IF	Citations
1753	Theory and applications of detrending-operation-based fractal-scaling analysis. , 2017, , .		7
1754	Novel measure of autonomic remodeling associated with sudden cardiac arrest in diabetes. Heart Rhythm, 2017, 14, 1449-1455.	0.7	3
1755	Detrended Fluctuation Analysis of Oxyhemoglobin Saturation by Pulse Oximetry in Sleep Apnea Syndrome. Journal of Medical and Biological Engineering, 2017, 37, 791-799.	1.8	3
1756	Impaired cardiac profile in adolescents with an increasing trajectory of anxiety when confronting an acute stressor. European Child and Adolescent Psychiatry, 2017, 26, 1501-1510.	4.7	9
1757	Investigating pH based evaluation of fetal heart rate (FHR) recordings. Health and Technology, 2017, 7, 241-254.	3.6	46
1758	Introduction to Complex Cardiovascular Physiology. , 2017, , 3-42.		1
1759	Age and Gender Dependency of Complexity Measures of Short-Term Heart Rate Time Series. , 2017, , 469-502.		1
1760	Intermittency-Driven Complexity in Signal Processing. , 2017, , 161-195.		5
1761	Exploiting Physiological Sensors and Biosignal Processing to Enhance Monitoring Care in Mental Health. Scalable Computing and Communications, 2017, , 515-550.	0.5	1
1762	Applications of Complexity Analysis in Clinical Heart Failure. , 2017, , 301-325.		5
1763	Complex and Nonlinear Analysis of Heart Rate Variability in the Assessment of Fetal and Neonatal Wellbeing. , 2017, , 427-450.		4
1764	Self-Similarity and Detrended Fluctuation Analysis of Cardiovascular Signals. , 2017, , 197-232.		8
1765	Plantâ€“plant interactions scale up to produce vegetation spatial patterns: the influence of longâ€•and shortâ€term process. Ecosphere, 2017, 8, e01915.	2.2	10
1766	Detecting abnormality in heart dynamics from multifractal analysis of ECG signals. Scientific Reports, 2017, 7, 15127.	3.3	38
1767	Attenuation of temporal correlations of neuronal oscillations in patients with mild spastic diplegia. Scientific Reports, 2017, 7, 14966.	3.3	7
1768	Multi-expert evolving system for objective psychophysiological monitoring and fast discovery of effective personalized therapies. , 2017, , .		4
1769	Lower limb kinematics during the swing phase in patients with knee osteoarthritis measured using an inertial sensor. Gait and Posture, 2017, 57, 236-240.	1.4	24
1770	Adaptive Kalman Filtering by Covariance Sampling. IEEE Signal Processing Letters, 2017, 24, 1288-1292.	3.6	46

#	Article	IF	Citations
1771	Reduced Tolerance to Night Shift in Chronic Shift Workers: Insight From Fractal Regulation. Sleep, 2017, 40, .	1.1	19
1772	Entropy measures, entropy estimators, and their performance in quantifying complex dynamics: Effects of artifacts, nonstationarity, and long-range correlations. Physical Review E, 2017, 95, 062114.	2.1	151
1773	Fisherâ€“Shannon and detrended fluctuation analysis of MODIS normalized difference vegetation index (NDVI) time series of fire-affected and fire-unaffected pixels. Geomatics, Natural Hazards and Risk, 2017, 8, 1342-1357.	4.3	11
1774	Dynamic characteristics of a continuous optimization method based on fictitious play theory. Journal of the Korean Physical Society, 2017, 70, 880-890.	0.7	0
1775	Long range dependence in texts: A method for quantifying coherence of text. Knowledge-Based Systems, 2017, 133, 33-42.	7.1	5
1776	Complexity in behavioural organization and strongylid infection among wild chimpanzees. Animal Behaviour, 2017, 129, 257-268.	1.9	12
1777	Automated diagnosis of coronary artery disease (CAD) patients using optimized SVM. Computer Methods and Programs in Biomedicine, 2017, 138, 117-126.	4.7	128
1778	Fluctuation Analysis of Peak Expiratory Flow and Its Association with Treatment Failure in Asthma. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 993-999.	5.6	24
1779	Quantitative electroencephalogram measures in adult obstructive sleep apnea â€“ Potential biomarkers of neurobehavioural functioning. Sleep Medicine Reviews, 2017, 36, 29-42.	8.5	59
1780	Knowledge is power: Issues of measuring training and performance in cycling. Journal of Sports Sciences, 2017, 35, 1426-1434.	2.0	76
1781	Clinical Assessment of the Autonomic Nervous System. , 2017, , .		7
1783	Heart Rate Variability (HRV) and Sympathetic Nerve Activity. , 2017, , 147-161.		9
1784	Fractal analysis of the ground-recorded ULF magnetic fields prior to the 11 March 2011 Tohoku earthquake (M WÂ=Â9): discriminating possible earthquake precursors from space-sourced disturbances. Natural Hazards, 2017, 85, 59-86.	3.4	23
1785	Single channel EEG analysis for detection of depression. Biomedical Signal Processing and Control, 2017, 31, 391-397.	5.7	67
1786	Development and genetics of brain temporal stability related to attention problems in adolescent twins. International Journal of Psychophysiology, 2017, 115, 86-97.	1.0	7
1787	Fractal analysis of GPS time series for early detection of disastrous seismic events. Physica A: Statistical Mechanics and Its Applications, 2017, 469, 718-730.	2.6	8
1788	Long-range dependence and time-clustering behavior in pedestrian movement patterns in stampedes: The Love Parade case-study. Physica A: Statistical Mechanics and Its Applications, 2017, 469, 265-274.	2.6	10
1789	Multi-scale transitions of fuzzy sample entropy of RR-intervals and their phase-randomized surrogates: A possibility to diagnose congestive heart failure. Biomedical Signal Processing and Control, 2017, 31, 350-356.	5.7	13

#	Article	IF	Citations
1790	Tracking Performance Changes With Running-Stride Variability When Athletes Are Functionally Overreached. International Journal of Sports Physiology and Performance, 2017, 12, 357-363.	2.3	17
1791	Pre-ictal epileptic seizure prediction based on ECG signal analysis. , 2017, , .		2
1792	Can potentials of unbalanced complex kinetics of heart rate variability estimate drowsiness?. , 2017, , .		2
1793	Multifractal multiscale dfa of cardiovascular time series: Differences in complex dynamics of systolic blood pressure, diastolic blood pressure and heart rate. , 2017, 2017, 3477-3480.		2
1794	Detrended fluctuation analysis of repetitive handwriting. , 2017, , .		3
1795	Energy distribution analysis and nonlinear dynamical analysis of phonation in patients with Parkinson's disease. , 2017, , .		1
1796	Sleep stage assessment based on autocorrelation and spectral analysis of heart rate variability. , 2017, , .		3
1797	Fluctuations in email size. European Physical Journal Plus, 2017, 132, 1.	2.6	0
1798	Computing the variations in the self-similar properties of the various gait intervals in Parkinson disease patients. , 2017, 2017, 2434-2437.		3
1799	A stochastic and mathematically integrative model of the control of human heart rate. , 2017, 2017, 3122-3125.		1
1800	Simulating the extrinsic regulation of the sinoatrial node cells using a unified computational model. Biomedical Physics and Engineering Express, 2017, 3, 035009.	1.2	2
1801	Effect of age and postural related changes on cardiac autonomic function in the pre-menopausal and post-menopausal women. International Journal of Medical Engineering and Informatics, 2017, 9, 299.	0.3	4
1802	Heart Rate Fragmentation: A New Approach to the Analysis of Cardiac Interbeat Interval Dynamics. Frontiers in Physiology, 2017, 8, 255.	2.8	105
1803	Cardiac Autonomic Responses during Exercise and Post-exercise Recovery Using Heart Rate Variability and Systolic Time Intervalsâ€"A Review. Frontiers in Physiology, 2017, 8, 301.	2.8	350
1804	Decomposing Multifractal Crossovers. Frontiers in Physiology, 2017, 8, 533.	2.8	51
1805	Pattern Analysis of Oxygen Saturation Variability in Healthy Individuals: Entropy of Pulse Oximetry Signals Carries Information about Mean Oxygen Saturation. Frontiers in Physiology, 2017, 8, 555.	2.8	45
1806	Dynamics of Stride Interval Characteristics during Continuous Stairmill Climbing. Frontiers in Physiology, 2017, 8, 609.	2.8	7
1807	Changes in Dimensionality and Fractal Scaling Suggest Soft-Assembled Dynamics in Human EEG. Frontiers in Physiology, 2017, 8, 633.	2.8	10

#	Article	IF	Citations
1808	Hidden Signalsâ€"The History and Methods of Heart Rate Variability. Frontiers in Public Health, 2017, 5, 265.	2.7	79
1809	Multiscale Entropy Analysis of the Differential RR Interval Time Series Signal and Its Application in Detecting Congestive Heart Failure. Entropy, 2017, 19, 251.	2.2	37
1810	Efectos del entrenamiento propioceptivo sobre el sistema de control postural en jugadores de fÃºtbol adolescentes: estudio realizado mediante Detrended Fluctuation Analysis (DFA). Sport TK, 2017, 6, 49.	0.3	0
1811	An Application of the Coherent Noise Model for the Prediction of Aftershock Magnitude Time Series. Complexity, 2017, 2017, 1-27.	1.6	12
1812	Power considerations for the application of detrended fluctuation analysis in gait variability studies. PLoS ONE, 2017, 12, e0174144.	2.5	30
1813	Effect of Rho-kinase inhibition on complexity of breathing pattern in a guinea pig model of asthma. PLoS ONE, 2017, 12, e0187249.	2.5	19
1814	Fast algorithm of long-range cross-correlation analysis using Savitzky-Golay detrending filter and its application to biosignal analysis. , 2017, , .		5
1815	Atrial Fibrillation Classification from a Short Single Lead ECG Recording Using Hierarchical Classifier. , 0, , .		11
1816	Analysis of Heart Rate Variability Indices after Selective Acute Atrial Ischemia in Humans. , 2017, , .		1
1817	Association between Multiscale Entropy Characteristics of Heart Rate Variability and Ischemic Stroke Risk in Patients with Permanent Atrial Fibrillation. Entropy, 2017, 19, 672.	2.2	2
1818	Entropy as a method to investigate complex biological systems. An alternative view on the biological transition from healthy aging to frailty. Geriatric Care, 2017, 3, .	0.2	3
1819	Epileptic Seizure: A New Approach for Quantification of Autonomic Deregulation with Chaos Based Technique. Translational Biomedicine, 2017, 08, .	0.1	4
1820	Nonlinear Heart Rate Variability Measures During the Oral Glucose Tolerance Test. , 2017, , .		2
1821	Statistical analysis of symbolic dynamics in weakly coupled chaotic oscillators. Communications in Nonlinear Science and Numerical Simulation, 2018, 62, 134-145.	3.3	12
1822	Quantitative Models for Microscopic to Macroscopic Biological Macromolecules and Tissues. , 2018, , .		3
1823	Universal characteristics of evolution and development are inherent in fetal autonomic brain maturation. Autonomic Neuroscience: Basic and Clinical, 2018, 212, 32-41.	2.8	10
1824	Time-varying Hurstâ€"HÃ¶lder exponents and the dynamics of (in)efficiency in stock markets. Chaos, Solitons and Fractals, 2018, 109, 64-75.	5.1	23
1825	Multifractal analysis of the time series of daily means of wind speed in complex regions. Chaos, Solitons and Fractals, 2018, 109, 118-127.	5.1	64

#	Article	IF	Citations
1826	Increase in random component of heart rate variability coinciding with developmental and degenerative stages of life. Physiological Measurement, 2018, 39, 054004.	2.1	15
1827	Factorization of Force and Timing in Sensorimotor Performance: Longâ€Range Correlation Properties of Two Different Task Goals. Topics in Cognitive Science, 2018, 10, 120-132.	1.9	4
1828	DETRENDED CROSS-CORRELATION ANALYSIS BETWEEN MULTIVARIATE TIME SERIES. Fractals, 2018, 26, 1850058.	3.7	8
1829	Time irreversibility and intrinsics revealing of series with complex network approach. Physica A: Statistical Mechanics and Its Applications, 2018, 499, 241-249.	2.6	16
1830	The effect of prolonged level and uphill walking on the postural control of older adults. Journal of Biomechanics, 2018, 69, 19-25.	2.1	7
1831	Fractal Dynamics, Variability, and Coordination in Human Locomotion. Kinesiology Review, 2018, 7, 26-35.	0.6	26
1832	Landauâ€“Ginzburg theory of cortex dynamics: Scale-free avalanches emerge at the edge of synchronization. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1356-E1365.	7.1	133
1833	Comparison of time-domain, frequency-domain and non-linear analysis for distinguishing congestive heart failure patients from normal sinus rhythm subjects. Biomedical Signal Processing and Control, 2018, 42, 30-36.	5.7	35
1834	Musical auditory stimulus acutely influences heart rate dynamic responses to medication in subjects with well-controlled hypertension. Scientific Reports, 2018, 8, 958.	3.3	15
1835	Characterizing scaling properties of complex signals with missed data segments using the multifractal analysis. Chaos, 2018, 28, 013124.	2.5	5
1836	Effect of the signal filtering on detrended fluctuation analysis. Physica A: Statistical Mechanics and Its Applications, 2018, 494, 446-453.	2.6	7
1837	Refined composite multiscale weighted-permutation entropy of financial time series. Physica A: Statistical Mechanics and Its Applications, 2018, 496, 189-199.	2.6	11
1838	A time local subset feature selection for prediction of sudden cardiac death from ECG signal. Medical and Biological Engineering and Computing, 2018, 56, 1253-1270.	2.8	41
1839	Dynamic structure of lower limb joint angles during walking post-stroke. Journal of Biomechanics, 2018, 68, 1-5.	2.1	9
1840	Multiscale multifractal DCCA and complexity behaviors of return intervals for Potts price model. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 889-902.	2.6	20
1841	Association between EEG spectral power dynamics and event related potential amplitude on a P300 speller. Biomedical Physics and Engineering Express, 2018, 4, 025028.	1.2	2
1842	Weighted multiscale RÃ©nyi permutation entropy of nonlinear time series. Physica A: Statistical Mechanics and Its Applications, 2018, 496, 548-570.	2.6	22
1843	SCALING AND MULTIFRACTALITY IN ROAD ACCIDENTAL DISTANCES. Fractals, 2018, 26, 1850014.	3.7	1

#	Article	IF	Citations
1844	Controlling the Temporal Structure of Brain Oscillations by Focused Attention Meditation. Human Brain Mapping, 2018, 39, 1825-1838.	3.6	44
1845	Influence of land use on the persistence effect of riverine phosphorus. Hydrological Processes, 2018, 32, 118-125.	2.6	9
1846	Effect of continuous positive airway pressure on breathing variability in early preterm lung disease. Pediatric Pulmonology, 2018, 53, 755-761.	2.0	7
1847	Asymmetric volatility varies in different dry bulk freight rate markets under structure breaks. Physica A: Statistical Mechanics and Its Applications, 2018, 505, 316-327.	2.6	8
1848	Long-range fluctuations and multifractality in connectivity density time series of a wind speed monitoring network. Chaos, 2018, 28, 033108.	2.5	34
1849	Multifractal detrended cross-correlation analysis on air pollutants of University of Hyderabad Campus, India. Physica A: Statistical Mechanics and Its Applications, 2018, 502, 228-235.	2.6	24
1850	Relative asynchronous index: a new measure for time series irreversibility. Nonlinear Dynamics, 2018, 93, 1545-1557.	5.2	5
1851	Heart and soul: heart rate variability and major depression. Behavioural Pharmacology, 2018, 29, 152-164.	1.7	32
1852	Transitions in persistence of postural dynamics depend on the velocity and structure of postural perturbations. Experimental Brain Research, 2018, 236, 1491-1500.	1.5	8
1853	Association between stride time fractality and gait adaptability during unperturbed and asymmetric walking. Human Movement Science, 2018, 58, 248-259.	1.4	22
1854	New insights from continuous glucose monitoring into the route to diabetes. Diabetes/Metabolism Research and Reviews, 2018, 34, e3002.	4.0	10
1855	Generate the scale-free brain music from BOLD signals. Medicine (United States), 2018, 97, e9628.	1.0	4
1856	The impact of the financial crisis on the long-range memory of European corporate bond and stock markets. Empirica, 2018, 45, 1-15.	1.8	7
1857	Long memory and scaling behavior study of bulk freight rate volatility with structural breaks. Transportation Letters, 2018, 10, 343-353.	3.1	7
1858	Depression and cardiac dysautonomia in eating disorders. Eating and Weight Disorders, 2018, 23, 369-374.	2.5	6
1859	Normative Values of Short-Term Heart Rate Variability Parameters in Koreans and Their Clinical Value for the Prediction of Mortality. Heart Lung and Circulation, 2018, 27, 576-587.	0.4	13
1860	Firstâ€night effect on cardiac autonomic function in different female reproductive states. Journal of Sleep Research, 2018, 27, 150-158.	3.2	5
1861	Impaired cardiac autonomic regulation and long-term risk of atrial fibrillation in patients with coronary artery disease. Heart Rhythm, 2018, 15, 334-340.	0.7	10

#	Article	IF	Citations
1862	Multifractal Detrended Fluctuation Analysis of Eye-Tracking Data. Lecture Notes in Computational Vision and Biomechanics, 2018, , 476-484.	0.5	2
1863	Introducing Statistical Persistence Decay: A Quantification of Stride-to-Stride Time Interval Dependency in Human Gait. Annals of Biomedical Engineering, 2018, 46, 60-70.	2.5	7
1864	Properties of Asymmetric Detrended Fluctuation Analysis in the time series of RR intervals. Physica A: Statistical Mechanics and Its Applications, 2018, 491, 347-360.	2.6	7
1865	Heart rate variability as a predictive biomarker of thermal comfort. Journal of Ambient Intelligence and Humanized Computing, 2018, 9, 1465-1477.	4.9	65
1866	The impact of artifact correction methods of RR series on heart rate variability parameters. Journal of Applied Physiology, 2018, 124, 646-652.	2.5	29
1867	Correlation between the Hurst exponent and the maximal Lyapunov exponent: Examining some low-dimensional conservative maps. Physica A: Statistical Mechanics and Its Applications, 2018, 490, 834-844.	2.6	14
1868	Linear and nonlinear parameters of heart rate variability in ischemic stroke patients. Neurologia I Neurochirurgia Polska, 2018, 52, 194-206.	1.2	28
1869	Scale-Free Amplitude Modulation of Neuronal Oscillations Tracks Comprehension of Accelerated Speech. Journal of Neuroscience, 2018, 38, 710-722.	3.6	14
1870	Interplay of transitions between oscillations with emergence of fireballs and quantification of phase coherence, scaling index in a magnetized glow discharge plasma in a toroidal assembly. Chaos, Solitons and Fractals, 2018, 106, 295-303.	5.1	1
1871	Quantitative Assessment of Arrhythmia Using Non-linear Approach: A Non-invasive Prognostic Tool. Journal of the Institution of Engineers (India): Series B, 2018, 99, 167-172.	1.9	5
1872	Analysis of magnetohydrodynamics peristaltic transport of hydrogen bubble in water. International Journal of Hydrogen Energy, 2018, 43, 979-985.	7.1	26
1873	Methods for classifying depression in single channel EEG using linear and nonlinear signal analysis. Computer Methods and Programs in Biomedicine, 2018, 155, 11-17.	4.7	160
1874	Transitions between superstatistical regimes: Validity, breakdown and applications. Physica A: Statistical Mechanics and Its Applications, 2018, 493, 29-46.	2.6	15
1875	Surface electromyography for analysis of heart rate variability in preterm infants. Physiological Measurement, 2018, 39, 015004.	2.1	6
1876	Self-reinforcing feedback loop in financial markets with coupling of market impact and momentum traders. Physica A: Statistical Mechanics and Its Applications, 2018, 493, 301-310.	2.6	2
1877	A Bio-feedback Training and Evaluation System for Directional Control of Pinch Force. , 2018, , .		0
1878	Nonlinear Analysis of Quantitative EEGs in Patients with Syndromes of Post-Coma Disorders of Consciousness after Severe Traumatic Brain Injury. Neurophysiology, 2018, 50, 456-465.	0.3	3
1879	Investigation of the Spatial Clustering Properties of Seismic Time Series: A Comparative Study from Shallow to Intermediate-Depth Earthquakes. Complexity, 2018, 2018, 1-10.	1.6	2

#	Article	IF	Citations
1880	Asymptotically efficient non-truncated identification for FIR systems with binary-valued outputs. Science China Information Sciences, 2018, 61, 1.	4.3	11
1881	Correlation Analysis of Nonstationary Data: Application to the Processing of EEG. , 2018, , .		0
1882	Prediction Indicators for Acute Exacerbations of Chronic Obstructive Pulmonary Disease By Combining Non-linear analyses and Machine. , 2018, , .		3
1883	Centre of pressure during quiet stance and dual-task one month after mild traumatic brain injury: In adolescents. Journal of Concussion, 2018, 2, 205970021880491.	0.6	1
1884	Fractal and Multifractal Properties of Electrographic Recordings of Human Brain Activity: Toward Its Use as a Signal Feature for Machine Learning in Clinical Applications. Frontiers in Physiology, 2018, 9, 1767.	2.8	38
1885	Long-Memory and Fractal Traces in KHz-MHz Electromagnetic Time Series Prior to the ML=6.1, 12/6/2007 Lesvos, Greece Earthquake: Investigation through DFA and Time-Evolving Spectral Fractals. Journal of Earth Science & Climatic Change, 2018, 09, .	0.2	1
1886	Application of multifractal detrended fluctuation analysis in fault diagnosis for a railway track circuit. HKIE Transactions, 2018, 25, 44-55.	0.1	1
1887	SOCIAL SUPPORT AND MONETARY RESOURCES AS PROTECTIVE FACTORS AGAINST FOOD INSECURITY AMONG OLDER AMERICANS. Innovation in Aging, 2018, 2, 678-679.	0.1	0
1888	Long-Memory and Fractal Trends in Variations of Environmental Radon in Soil: Results from Measurements in Lesvos Island in Greece. Journal of Earth Science & Climatic Change, 2018, 09, .	0.2	0
1889	Emergency Department Overcrowding Detection by a Multifractal Analysis. IFAC-PapersOnLine, 2018, 51, 104-109.	0.9	1
1890	Altered Heart Rate Regulation in Adolescent Girls and the Vulnerability for Internalizing Disorders. Frontiers in Physiology, 2018, 9, 852.	2.8	6
1891	Statistical memory effects in human stride dynamics. Journal of Physics: Conference Series, 2018, 1038, 012024.	0.4	0
1892	Mitigating the Influence of Crossover Phenomena on Wind Resources Scaling Analysis Based on Season Division. IOP Conference Series: Earth and Environmental Science, 0, 199, 052026.	0.3	1
1893	Analysis on Non-Linear Features of Electroencephalogram (EEG) Signal for Neuromarketing Application. , 2018, , .		16
1894	A remarkable change of the entropy of seismicity in natural time under time reversal before the super-giant M9 Tohoku earthquake on 11 March 2011. Europhysics Letters, 2018, 124, 29001.	2.0	39
1895	Development and validation of warning system of ventricular tachyarrhythmia in patients with heart failure with heart rate variability data. PLoS ONE, 2018, 13, e0207215.	2.5	33
1896	Fractal Analysis of the Gravitational Waves as a Unique Ultra-Wideband Process. , 2018, , .		1
1897	A refined method of quantifying deceleration capacity index for heart rate variability analysis. BioMedical Engineering OnLine, 2018, 17, 184.	2.7	3

#	Article	IF	Citations
1898	Quantification of Beat-To-Beat Variability of Action Potential Durations in Langendorff-Perfused Mouse Hearts. Frontiers in Physiology, 2018, 9, 1578.	2.8	7
1899	Assessment of Sleep Quality by Electrocardiogram: Usefulness for Risk Stratification Among Hemodialysis Patients with End-stage Renal Disease. , 2018, , .		1
1900	Flare Productivity of Major Flaring Solar Active Regions: A Time-Series Study of Photospheric Magnetic Properties. Solar Physics, 2018, 293, 1.	2.5	7
1901	Complexity Matching: Restoring the Complexity of Locomotion in Older People Through Arm-in-Arm Walking. Frontiers in Physiology, 2018, 9, 1766.	2.8	34
1902	Constituent factors of heart rate variability ALLSTAR big data analysis. Wireless Networks, 2022, 28, 1287-1292.	3.0	0
1903	The complexity-entropy causality plane based on multiscale power spectrum entropy of financial time series. Chaos, 2018, 28, 123120.	2.5	4
1904	High-Intensity Exercise Mitigates Cardiovascular Deconditioning During Long-Duration Bed Rest. Frontiers in Physiology, 2018, 9, 1553.	2.8	26
1905	Differentiation between Normal and Interictal EEG Using Multitaper Spectral Classifiers. , 2018, , .		4
1906	Electrophysiological approaches in the study of cognitive development outside the lab. PLoS ONE, 2018, 13, e0206983.	2.5	15
1907	Detrended fluctuation analysis of the oximetry signal to assist in paediatric sleep apnoeaâ€“hypopnoea syndrome diagnosis. Physiological Measurement, 2018, 39, 114006.	2.1	22
1908	Heart Rate Fragmentation as a Novel Biomarker of Adverse Cardiovascular Events: The Multi-Ethnic Study of Atherosclerosis. Frontiers in Physiology, 2018, 9, 1117.	2.8	32
1909	An EEG nicotinic acetylcholine index to assess the efficacy of pro-cognitive compounds. Clinical Neurophysiology, 2018, 129, 2325-2332.	1.5	8
1910	Amplitude- and Fluctuation-Based Dispersion Entropy. Entropy, 2018, 20, 210.	2.2	132
1911	A general class of multifractional processes and stock price informativeness. Chaos, Solitons and Fractals, 2018, 115, 248-267.	5.1	5
1912	Effect of measuring noise on scaling characteristics in the dynamics of coupled chaotic systems. Chaos, Solitons and Fractals, 2018, 116, 106-113.	5.1	7
1913	Day-to-Day Reliability of Nonlinear Methods to Assess Walking Dynamics. Journal of Biomechanical Engineering, 2018, 140, .	1.3	10
1914	The effect of fractal-like mechanical ventilation on vital signs in a rat model of acute-on-chronic liver failure. Physiological Measurement, 2018, 39, 114008.	2.1	3
1915	Theoretical and Numerical Comparisons of the Parameter Estimator of the Fractional Brownian Motion. STEAM-H: Science, Technology, Engineering, Agriculture, Mathematics & Health, 2018, , 153-173.	0.0	0

#	Article	IF	Citations
1916	Simple statistics for complex Earthquake time distributions. Nonlinear Processes in Geophysics, 2018, 25, 497-510.	1.3	6
1917	The association between heart rhythm complexity and the severity of abdominal aorta calcification in peritoneal dialysis patients. Scientific Reports, 2018, 8, 15627.	3.3	6
1918	An Investigation of Dynamic Features Influence in ECG-Apnea Using Detrended Fluctuation Analysis. , 2018, , .		2
1919	Linear and Complex Measures of Heart Rate Variability during Exposure to Traffic Noise in Healthy Women. Complexity, 2018, 2018, 1-14.	1.6	11
1920	Long-Range Temporal Correlations of Patients in Minimally Conscious State Modulated by Spinal Cord Stimulation. Frontiers in Physiology, 2018, 9, 1511.	2.8	15
1921	PhysioZoo: A Novel Open Access Platform for Heart Rate Variability Analysis of Mammalian Electrocardiographic Data. Frontiers in Physiology, 2018, 9, 1390.	2.8	72
1922	Alterations in heart rate variability in patients with peripheral arterial disease requiring surgical revascularization have limited association with postoperative major adverse cardiovascular and cerebrovascular events. PLoS ONE, 2018, 13, e0203519.	2.5	13
1923	Affective computing in virtual reality: emotion recognition from brain and heartbeat dynamics using wearable sensors. Scientific Reports, 2018, 8, 13657.	3.3	252
1924	Applications of Variability Analysis Techniques for Continuous Glucose Monitoring Derived Time Series in Diabetic Patients. Frontiers in Physiology, 2018, 9, 1257.	2.8	8
1925	Multiscale evolution of persistence of rainfall and streamflow. Advances in Water Resources, 2018, 121, 285-303.	3.8	24
1926	A Patient Suffering From Neurodegenerative Disease May Have a Strengthened Fractal Gait Rhythm. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1765-1772.	4.9	7
1927	An open source benchmarked toolbox for cardiovascular waveform and interval analysis. Physiological Measurement, 2018, 39, 105004.	2.1	173
1928	Multifractal Analysis of Pulsar Timing Residuals: Assessment of Gravitational Wave Detection. Astrophysical Journal, 2018, 864, 162.	4.5	11
1929	The Detection of Dc Arc Fault Based on DFA. , 2018, , .		3
1930	Detrended fluctuation analysis in a simple spreadsheet as a tool for teaching fractal physiology. American Journal of Physiology - Advances in Physiology Education, 2018, 42, 493-499.	1.6	12
1931	Investigating the time evolution of some parameters describing inflow processes of pedestrians in a room. Physica A: Statistical Mechanics and Its Applications, 2018, 507, 77-88.	2.6	5
1932	Diminished heart rate complexity in adolescent girls: a sign of vulnerability to anxiety disorders?. Anxiety, Stress and Coping, 2018, 31, 375-386.	2.9	9
1933	Fractal measures in activity patterns: Do gastrointestinal parasites affect the complexity of sheep behaviour?. Applied Animal Behaviour Science, 2018, 205, 44-53.	1.9	29

#	Article	IF	Citations
1934	Analysis of the Complexity of Seismic Data Sets. , 2018, , 3-24.		2
1935	Natural Time Analysis of Seismic Time Series. , 2018, , 199-235.		3
1936	Fractal Analysis of pH Time-Series of an Anaerobic Digester for Cheese Whey Treatment. International Journal of Chemical Reactor Engineering, 2018, 16, .	1.1	3
1937	Different Biometrics for Clinical Trials That Measure Volitional Control. , 2018, , 391-501.		0
1938	Sign and magnitude scaling properties of heart rate fluctuations following vagus nerve stimulation in a patient with drug-resistant epilepsy. Epilepsy & Behavior Case Reports, 2018, 10, 78-81.	1.5	4
1939	Detrended fluctuation analysis of EEG patterns associated with real and imaginary arm movements. Physica A: Statistical Mechanics and Its Applications, 2018, 509, 777-782.	2.6	31
1940	A novel approach for benchmarking and assessing the performance of state estimators. ISA Transactions, 2018, 80, 137-145.	5.7	2
1941	Reproductive performance and diving behaviour share a common seaâ€ice concentration optimum in AdÃ©lie penguins (Pygoscelis adeliae). Global Change Biology, 2018, 24, 5304-5317.	9.5	34
1942	Fractal dimension of EEG signals and heart dynamics in discrete emotional states. Biological Psychology, 2018, 137, 42-48.	2.2	36
1943	Some stylized facts of the cryptocurrency market. Applied Economics, 2018, 50, 5950-5965.	2.2	115
1944	Cardiac Autonomic Modulations and Psychological Correlates in the Yukon Arctic Ultra: The Longest and the Coldest Ultramarathon. Frontiers in Physiology, 2018, 9, 35.	2.8	22
1945	Center of Pressure Motion After Calf Vibration Is More Random in Fallers Than Non-fallers: Prospective Study of Older Individuals. Frontiers in Physiology, 2018, 9, 273.	2.8	18
1946	Frequency-Specific Fractal Analysis of Postural Control Accounts for Control Strategies. Frontiers in Physiology, 2018, 9, 293.	2.8	29
1947	Non-linear Heart Rate Variability as a Discriminator of Internalizing Psychopathology and Negative Affect in Children With Internalizing Problems and Healthy Controls. Frontiers in Physiology, 2018, 9, 561.	2.8	18
1948	Concurrent Changes of Brain Functional Connectivity and Motor Variability When Adapting to Task Constraints. Frontiers in Physiology, 2018, 9, 909.	2.8	23
1949	Impact of Supratentorial Cerebral Hemorrhage on the Complexity of Heart Rate Variability in Acute Stroke. Scientific Reports, 2018, 8, 11473.	3.3	14
1950	Fractal analysis of heart rate variability as a predictor of mortality: A systematic review and meta-analysis. Chaos, 2018, 28, 072101.	2.5	46
1951	Non-linear Dynamical Analysis of Intraspinal Pressure Signal Predicts Outcome After Spinal Cord Injury. Frontiers in Neurology, 2018, 9, 493.	2.4	17

#	Article	IF	Citations
1952	Characterization of Noise Signatures of Involuntary Head Motion in the Autism Brain Imaging Data Exchange Repository. Frontiers in Integrative Neuroscience, 2018, 12, 7.	2.1	16
1953	A Novel Method for Control Performance Assessment with Fractional Order Signal Processing and Its Application to Semiconductor Manufacturing. Algorithms, 2018, 11, 90.	2.1	14
1954	Extraction of Coal and Gangue Geometric Features with Multifractal Detrending Fluctuation Analysis. Applied Sciences (Switzerland), 2018, 8, 463.	2.5	29
1955	Changes in the Complexity of Heart Rate Variability with Exercise Training Measured by Multiscale Entropy-Based Measurements. Entropy, 2018, 20, 47.	2.2	14
1956	The Complexity Measures Associated with the Fluctuations of the Entropy in Natural Time before the Deadly MÃ©xico M8.2 Earthquake on 7 September 2017. Entropy, 2018, 20, 477.	2.2	32
1957	Integer-dimensional fractals of nonlinear dynamics, control mechanisms, and physical implications. Scientific Reports, 2018, 8, 10324.	3.3	13
1958	Asymmetric detrended fluctuation analysis in neonatal stress. Physiological Measurement, 2018, 39, 085006.	2.1	7
1959	Features extraction from vital signs to characterize acute respiratory distress syndrome. , 2018, , .		0
1960	Critical exponents of the yielding transition of amorphous solids. Physical Review E, 2018, 98, 013002.	2.1	24
1961	Autonomic nervous system depression at term in neurologically normal premature infants. Early Human Development, 2018, 123, 11-16.	1.8	31
1962	Micro-scale, mid-scale, and macro-scale in global seismicity identified by empirical mode decomposition and their multifractal characteristics. Scientific Reports, 2018, 8, 9206.	3.3	33
1963	Non-linear dynamics of cardiac autonomic activity during cycling exercise with varied cadence. Human Movement Science, 2018, 60, 225-233.	1.4	14
1964	Computing Spectral Characteristics from Short Signals and Nonstationary Processes. Technical Physics Letters, 2018, 44, 40-43.	0.7	0
1965	Stochastic process with multiplicative structure for the dynamic behavior of the financial market. Physica A: Statistical Mechanics and Its Applications, 2018, 512, 222-229.	2.6	11
1966	New irreversibility measure and complexity analysis based on singular value decomposition. Physica A: Statistical Mechanics and Its Applications, 2018, 512, 913-924.	2.6	5
1967	The Color of Noise and Weak Stationarity at the NREM to REM Sleep Transition in Mild Cognitive Impaired Subjects. Frontiers in Psychology, 2018, 9, 1205.	2.1	2
1968	Highly sensitive index of cardiac autonomic control based on time-varying respiration derived from ECG. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 315, R469-R478.	1.8	5
1969	Attenuation of long-range temporal correlations of neuronal oscillations in young children with autism spectrum disorder. NeuroImage: Clinical, 2018, 20, 424-432.	2.7	10

#	Article	IF	Citations
1970	Multifractal analysis of Bitcoin market. Physica A: Statistical Mechanics and Its Applications, 2018, 512, 954-967.	2.6	47
1971	Quantitative analysis in nonlinear complexity detection of meditative heartbeats. Physica A: Statistical Mechanics and Its Applications, 2018, 512, 1060-1068.	2.6	10
1972	Prediction of paroxysmal Atrial Fibrillation: A machine learning based approach using combined feature vector and mixture of expert classification on HRV signal. Computer Methods and Programs in Biomedicine, 2018, 165, 53-67.	4.7	73
1973	Estimation of multifractality based on natural time analysis. Physica A: Statistical Mechanics and Its Applications, 2018, 512, 153-164.	2.6	13
1974	Chaos based nonlinear analysis to study cardiovascular responses to changes in posture. Physica A: Statistical Mechanics and Its Applications, 2018, 512, 392-403.	2.6	6
1975	Negative mood and mind wandering increase long-range temporal correlations in attention fluctuations. PLoS ONE, 2018, 13, e0196907.	2.5	16
1976	Has the efficiency of foreign exchange markets in India evolved over time?. International Journal of Emerging Markets, 2018, 13, 676-688.	2.2	4
1977	Influence of remote pain on movement control and muscle endurance during repetitive movements. Experimental Brain Research, 2018, 236, 2309-2319.	1.5	4
1978	Long-range temporal correlations in the brain distinguish conscious wakefulness from induced unconsciousness. NeuroImage, 2018, 179, 30-39.	4.2	21
1979	Long-term memory of rating behaviors for the online trust formation. Physica A: Statistical Mechanics and Its Applications, 2018, 508, 254-264.	2.6	4
1980	Recurrence Quantification Analysis at work: Quasi-periodicity based interpretation of gait force profiles for patients with Parkinson disease. Scientific Reports, 2018, 8, 9102.	3.3	37
1981	Survival and weak chaos. Royal Society Open Science, 2018, 5, 172181.	2.4	4
1982	A novel heart rate variability based risk prediction model for septic patients presenting to the emergency department. Medicine (United States), 2018, 97, e10866.	1.0	34
1983	Identification of defective two dimensional semiconductors by multifractal analysis: The single-layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e699" altimg="si117.gif"><mml:msub><mml:mrow><mml:mi mathvariant="normal">MoS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> case study. Physica A: Statistical Mechanics and its Applications, 2018, 508, 757-770.	2.6	5
1984	Analysis of repulsion states among pedestrians inflowing into a room. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2424-2430.	2.1	6
1985	Effects of missing data on characterization of complex dynamics from time series. Communications in Nonlinear Science and Numerical Simulation, 2019, 66, 31-40.	3.3	13
1986	Non-linear dynamics of heart rate variability during incremental cycling exercise. Research in Sports Medicine, 2019, 27, 88-98.	1.3	27
1987	Scenario-based hazard analysis of extreme high-temperatures experienced between 1959 and 2014 in Hulunbuir, China. International Journal of Climate Change Strategies and Management, 2019, 11, 2-17.	2.9	4

#	Article	IF	Citations
1988	Heart Rate Variability, Clinical and Laboratory Measures to Predict Future Deterioration in Patients Presenting With Sepsis. Shock, 2019, 51, 416-422.	2.1	30
1989	Hysteresis of economic networks in an XY model. Physica A: Statistical Mechanics and Its Applications, 2019, 513, 644-652.	2.6	9
1990	On the Relevance of Computing a Local Version of Sample Entropy in Cardiovascular Control Analysis. IEEE Transactions on Biomedical Engineering, 2019, 66, 623-631.	4.2	35
1991	Postural stability predicts the likelihood of cybersickness in active HMD-based virtual reality. Displays, 2019, 58, 3-11.	3.7	90
1992	Leveraging Domain-expert Knowledge, Boosting and Deep Learning for Identification of Rare and Complex States. Journal of Physics: Conference Series, 2019, 1207, 012016.	0.4	4
1993	Detection of major depressive disorder from linear and nonlinear heart rate variability features during mental task protocol. Computers in Biology and Medicine, 2019, 112, 103381.	7.0	60
1994	Heart rate variability based machine learning models for risk prediction of suspected sepsis patients in the emergency department. Medicine (United States), 2019, 98, e14197.	1.0	61
1995	Aging changes complexity of heart rate dynamics assessed by entropy and Lyapunov exponent analysis. Geriatric Care, 2019, 5, .	0.2	1
1996	Detection of self-organized criticality behavior in an electronic circuit designed to solve a third order non-linear ODE (NL-ODE) for a damped KdV equation. Chaos, 2019, 29, 083116.	2.5	0
1997	A Fast DFA Algorithm for Multifractal Multiscale Analysis of Physiological Time Series. Frontiers in Physiology, 2019, 10, 115.	2.8	33
1998	A Novel Fiber Intrusion Signal Recognition Method for OFPS Based on SCN With Dropout. Journal of Lightwave Technology, 2019, 37, 5221-5230.	4.6	6
1999	Statistical and nonlinear analyses of return volatility dynamics on energy futures. International Journal of Modern Physics C, 2019, 30, 1950084.	1.7	1
2000	Autonomic complexity and emotion (dys-)regulation in early childhood across high- and low-risk contexts. Development and Psychopathology, 2019, 31, 1173-1190.	2.3	10
2001	Predictive analytics in the pediatric intensive care unit for early identification of sepsis: capturing the context of age. Pediatric Research, 2019, 86, 655-661.	2.3	24
2002	Attenuated long-range temporal correlations of electrocortical oscillations in patients with autism spectrum disorder. Developmental Cognitive Neuroscience, 2019, 39, 100687.	4.0	10
2003	Jump events in the human heartbeat interval fluctuations. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 083213.	2.3	3
2004	Assessing the Wet Deposition Mechanism of Benzo(a)pyrene in the Atmosphere by MF-DCCA. Atmosphere, 2019, 10, 331.	2.3	3
2005	Heart Rhythm Complexity Impairment in Patients with Pulmonary Hypertension. Scientific Reports, 2019, 9, 10710.	3.3	15

#	Article	IF	Citations
2006	Coupling Between Leg Muscle Activation and EEG During Normal Walking, Intentional Stops, and Freezing of Gait in Parkinson's Disease. Frontiers in Physiology, 2019, 10, 870.	2.8	23
2007	The detrended fluctuation analysis of heartbeat intervals in time series during stress tests. AIP Conference Proceedings, 2019, , .	0.4	1
2008	Investigation of Linear and Nonlinear Properties of a Heartbeat Time Series Using Multiscale RÃ©nyi Entropy. Entropy, 2019, 21, 727.	2.2	6
2009	The effect of labor and delivery mode on electrocortical and brainstem autonomic function during neonatal transition. Scientific Reports, 2019, 9, 11020.	3.3	14
2010	Recognizing Arm Motions by Fluctuation Analysis of EEG Signals. Technical Physics Letters, 2019, 45, 129-131.	0.7	4
2011	Effects of spinal cord stimulation on heart rate variability in patients with Failed Back Surgery Syndrome. PLoS ONE, 2019, 14, e0219076.	2.5	15
2012	EEG-Based Prediction of Cognitive Load in Intelligence Tests. Frontiers in Human Neuroscience, 2019, 13, 191.	2.0	60
2013	Early prognostication of neurological outcome by heart rate variability in adult patients with out-of-hospital sudden cardiac arrest. Critical Care, 2019, 23, 323.	5.8	17
2014	Desipramine restores the alterations in circadian entrainment induced by prenatal exposure to glucocorticoids. Translational Psychiatry, 2019, 9, 263.	4.8	5
2015	Persistence in firmâ€™s asset and equity volatility. Physica A: Statistical Mechanics and Its Applications, 2019, 535, 122265.	2.6	4
2016	Real vs. immersive-virtual emotional experience: Analysis of psycho-physiological patterns in a free exploration of an art museum. PLoS ONE, 2019, 14, e0223881.	2.5	53
2017	Scale-Invariance Exists in the Series of Character Intervals in the Four Great Chinese Novels*. Communications in Theoretical Physics, 2019, 71, 1139.	2.5	1
2018	Cumulative Tsallis entropy based on power spectrum of financial time series. Chaos, 2019, 29, 103118.	2.5	2
2020	The Influence of Switching between Chaotic Regimes on the Correlation Characteristics of Nonlinear Systems. Technical Physics Letters, 2019, 45, 909-911.	0.7	3
2021	Complexity and uncertainty analysis of financial stock markets based on entropy of scale exponential spectrum. Nonlinear Dynamics, 2019, 98, 2147-2170.	5.2	2
2022	Can the Detrended Fluctuation Analysis Reveal Nonlinear Components of Heart Rate VariabilityÆ'. , 2019, 2019, 6351-6354.		5
2023	Fractal properties in sensorimotor variability unveil internal adaptations of the organism before symptomatic functional decline. Scientific Reports, 2019, 9, 15736.	3.3	23
2024	HURST EXPONENTS AND DELAMPERTIZED FRACTIONAL BROWNIAN MOTIONS. International Journal of Theoretical and Applied Finance, 2019, 22, 1950024.	0.5	14

#	Article	IF	Citations
2025	The critical role of respiratory sinus arrhythmia on temporal cardiac dynamics. Journal of Applied Physiology, 2019, 127, 1733-1741.	2.5	7
2026	Effects of Acute Normobaric Hypoxia on Non-linear Dynamics of Cardiac Autonomic Activity During Constant Workload Cycling Exercise. Frontiers in Physiology, 2019, 10, 999.	2.8	10
2027	CRYPTOCURRENCIES IN FINANCE: REVIEW AND APPLICATIONS. International Journal of Theoretical and Applied Finance, 2019, 22, 1950020.	0.5	13
2028	Detrended Fluctuation, Coherence, and Spectral Power Analysis of Activation Rearrangement in EEG Dynamics During Cognitive Workload. Frontiers in Human Neuroscience, 2019, 13, 270.	2.0	35
2029	Identifying an optimal epoch length for spectral analysis of heart rate of critically-ill infants. Computers in Biology and Medicine, 2019, 113, 103391.	7.0	11
2030	Association between breakfast skipping and postprandial hyperglycaemia after lunch in healthy young individuals. British Journal of Nutrition, 2019, 122, 431-440.	2.3	24
2031	Non-linear regulation of cardiac autonomic modulation in obese youths: interpolation of ultra-short time series. Cardiology in the Young, 2019, 29, 1196-1201.	0.8	4
2032	Fractal correlations and linear analyses of heart rate variability in healthy young people with different levels of physical activity. Cardiology in the Young, 2019, 29, 1236-1242.	0.8	13
2033	Hypothetical Control of Heart Rate Variability. Frontiers in Physiology, 2019, 10, 1078.	2.8	9
2034	Improving methodology in heart rate variability analysis for the premature infants: Impact of the time length. PLoS ONE, 2019, 14, e0220692.	2.5	20
2035	Scaling features of intermittent dynamics: Differences of characterizing correlated and anti-correlated data sets. Physica A: Statistical Mechanics and Its Applications, 2019, 536, 122586.	2.6	10
2036	Inflammation and Reduced Parasympathetic Cardiac Modulation in Aortic-Valve Sclerosis. Applied Sciences (Switzerland), 2019, 9, 4020.	2.5	2
2037	Enhancing Detection Accuracy for Clinical Heart Failure Utilizing Pulse Transit Time Variability and Machine Learning. IEEE Access, 2019, 7, 17716-17724.	4.2	11
2038	Evidence-based model for real-time surveillance of ARDS. Biomedical Signal Processing and Control, 2019, 50, 83-91.	5.7	6
2040	Multifractal Correlation Study Between Posture and Autonomic Deregulation Using ECG and Blood Pressure Data. , 2019, , 149-172.		0
2041	A Mobile Crowd Sensing Application for Hypertensive Patients. Sensors, 2019, 19, 400.	3.8	23
2042	Long memory or structural break? Empirical evidences from index volatility in stock market. China Finance Review International, 2019, 9, 324-337.	8.4	1
2044	Movement variability emerges in gait as adaptation to task constraints in dynamic environments. Gait and Posture, 2019, 70, 1-5.	1.4	25

#	Article	IF	Citations
2045	Multifractal Approach for Quantification of Autonomic Deregulation Due to Epileptic Seizure with ECG Data. , 2019, , 79-96.		0
2046	Multiscale Fluctuation-Based Dispersion Entropy and Its Applications to Neurological Diseases. IEEE Access, 2019, 7, 68718-68733.	4.2	66
2047	Combination of discrete wavelet packet transform with detrended fluctuation analysis using customized mother wavelet with the aim of an imagery-motor control interface for an exoskeleton. Multimedia Tools and Applications, 2019, 78, 30503-30522.	3.9	17
2048	Research on Personal Identity Verification Based on Convolutional Neural Network. , 2019, , .		3
2049	Application of an Improved Correlation Method in Electrostatic Gait Recognition of Hemiparetic Patients. Sensors, 2019, 19, 2529.	3.8	4
2050	Pre-processing of Photoplethysmographic Waveform for Amplitude Regularization. Journal of Electrical Engineering and Technology, 2019, 14, 1741-1748.	2.0	3
2051	Differentiation of Heart Failure Patients by the Ratio of the Scaling Exponents of Cardiac Interbeat Intervals. Frontiers in Physiology, 2019, 10, 570.	2.8	7
2052	Criticality between Cortical States. Physical Review Letters, 2019, 122, 208101.	7.8	159
2053	Heart rate variability categories of fluctuation amplitude and complexity: diagnostic markers of fetal development and its disturbances. Physiological Measurement, 2019, 40, 064002.	2.1	20
2054	Development of a heart rate variability and complexity model in predicting the need for life-saving interventions amongst trauma patients. Burns and Trauma, 2019, 7, 12.	4.9	0
2055	Hybrid dynamics in a paired rhythmic synchronizationâ€“continuation task. Physica A: Statistical Mechanics and Its Applications, 2019, 524, 625-638.	2.6	5
2056	Effect of skipping breakfast for 6 days on energy metabolism and diurnal rhythm of blood glucose in young healthy Japanese males. American Journal of Clinical Nutrition, 2019, 110, 41-52.	4.7	35
2057	Emulating the perceptual capabilities of a human evaluator to map the GRB scale for the assessment of voice disorders. Engineering Applications of Artificial Intelligence, 2019, 82, 236-251.	8.1	8
2058	Origins of 1/f noise in human music performance from short-range autocorrelations related to rhythmic structures. PLoS ONE, 2019, 14, e0216088.	2.5	9
2059	A new approach for digestive disease diagnosis: Dynamics of gastrointestinal electrical activity. Medical Hypotheses, 2019, 128, 64-68.	1.5	2
2060	Heart rate fluctuation after birth predicts subsequent cardiorespiratory stability in preterm infants. Pediatric Research, 2019, 86, 348-354.	2.3	8
2061	A Survey on Efficiency and Profitable Trading Opportunities in Cryptocurrency Markets. Journal of Risk and Financial Management, 2019, 12, 67.	2.3	74
2062	Fatigue-Mediated Loss of Complexity is Contraction-Type Dependent in Vastus Lateralis Electromyographic Signals. Sports, 2019, 7, 78.	1.7	10

#	Article	IF	Citations
2063	Deep Ensemble Detection of Congestive Heart Failure Using Short-Term RR Intervals. IEEE Access, 2019, 7, 69559-69574.	4.2	38
2064	Heart rate variability study in young subjects under stress conditions. , 2019, , .		0
2065	Do intentionality constraints shape the relationship between motor variability and performance?. PLoS ONE, 2019, 14, e0214237.	2.5	7
2066	Stochastic dynamical systems always undergo trending mechanisms of transition to criticality. Physica A: Statistical Mechanics and Its Applications, 2019, 527, 121309.	2.6	2
2067	A Comparison of ECG Signal Pre-processing Using FrFT, FrWT and IPCA for Improved Analysis. Irbm, 2019, 40, 145-156.	5.6	40
2068	Dynamic properties of glucose complexity during the course of critical illness: a pilot study. Journal of Clinical Monitoring and Computing, 2019, 34, 361-370.	1.6	2
2069	The Analysis of Electroencephalography Changes Before and After a Single Neurofeedback Alpha/Theta Training Session in University Students. Applied Psychophysiology Biofeedback, 2019, 44, 173-184.	1.7	67
2070	Triadic time series motifs. Europhysics Letters, 2019, 125, 18002.	2.0	4
2071	Collection and Analysis of Multimodal Data for SUDEP Biomarker Discovery. , 2019, 3, 1-4.		2
2072	Fractal fluctuations in muscular activity contribute to judgments of length but not heaviness via dynamic touch. Experimental Brain Research, 2019, 237, 1213-1226.	1.5	16
2073	Equal heartbeat intervals and their effects on the nonlinearity of permutation-based time irreversibility in heart rate. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 1764-1771.	2.1	20
2074	Robust Fetal Heart Beat Detection via R-Peak Intervals Distribution. IEEE Transactions on Biomedical Engineering, 2019, 66, 3310-3319.	4.2	36
2075	Electroencephalograms during Mental Arithmetic Task Performance. Data, 2019, 4, 14.	2.3	145
2076	Scaling and correlation properties of RR and QT intervals at the cellular level. Scientific Reports, 2019, 9, 3651.	3.3	7
2077	Multifractality of posture modulates multisensory perception of stand-on-ability. PLoS ONE, 2019, 14, e0212220.	2.5	14
2078	The Application of the Extended PoincarÃ© Plot in the Analysis of Physiological Variabilities. Frontiers in Physiology, 2019, 10, 116.	2.8	40
2079	Effects of a Short-Term Cycling Interval Session and Active Recovery on Non-Linear Dynamics of Cardiac Autonomic Activity in Endurance Trained Cyclists. Journal of Clinical Medicine, 2019, 8, 194.	2.4	23
2080	An Analysis of Variability in Power Output During Indoor and Outdoor Cycling Time Trials. International Journal of Sports Physiology and Performance, 2019, 14, 1273-1279.	2.3	9

#	Article	IF	Citations
2081	Years of running experience influences stride-to-stride fluctuations and adaptive response during step frequency perturbations in healthy distance runners. Gait and Posture, 2019, 70, 376-382.	1.4	10
2082	Modeling neuronal avalanches and long-range temporal correlations at the emergence of collective oscillations: Continuously varying exponents mimic M/EEG results. PLoS Computational Biology, 2019, 15, e1006924.	3.2	48
2083	Cryptocurrency momentum effect: DFA and MF-DFA analysis. Physica A: Statistical Mechanics and Its Applications, 2019, 526, 120847.	2.6	48
2084	Kernel density approach to error estimation of MF-DFA measures on time series. Physica A: Statistical Mechanics and Its Applications, 2019, 526, 120863.	2.6	2
2085	Multivariate generalized information entropy of financial time series. Physica A: Statistical Mechanics and Its Applications, 2019, 525, 1212-1223.	2.6	12
2086	Synchronization dynamics modulates stride-to-stride fluctuations when walking to an invariant but not to a fractal-like stimulus. Neuroscience Letters, 2019, 704, 28-35.	2.1	21
2087	Synergy of physics-based reasoning and machine learning in biomedical applications: towards unlimited deep learning with limited data. Advances in Physics: X, 2019, 4, 1582361.	4.1	10
2088	Detection of Congestive Heart Failure Based on LSTM-Based Deep Network via Short-Term RR Intervals. Sensors, 2019, 19, 1502.	3.8	51
2089	Fractal and Long-Memory Traces in PM10 Time Series in Athens, Greece. Environments - MDPI, 2019, 6, 29.	3.3	19
2090	Trait Mindfulness Is Associated With the Self-Similarity of Heart Rate Variability. Frontiers in Psychology, 2019, 10, 314.	2.1	14
2091	Dynamic Multifractality of Seismic Activity in Northeast India. Pure and Applied Geophysics, 2019, 176, 1561-1577.	1.9	3
2092	Estimation of Cardiovascular Variability. Series in Bioengineering, 2019, , 103-119.	0.6	0
2093	Neonatal Skin-to-Skin Contact: Implications for Learning and Autonomic Nervous System Function in Infants With Congenital Heart Disease. Biological Research for Nursing, 2019, 21, 296-306.	1.9	20
2094	Study about vehicles velocities using time causal Information Theory quantifiers. Ad Hoc Networks, 2019, 89, 22-34.	5.5	12
2097	mDFA Detects Abnormality: From Heartbeat to Material Vibration. , 2019, , .		1
2098	On the multifractality of plasma turbulence in the solar wind. Proceedings of the International Astronomical Union, 2019, 15, 371-374.	0.0	0
2099	A Comparative Study of Geoelectric Signals Possibly Associated with the Occurrence of Two Ms > 7 EQs in the South Pacific Coast of Mexico. Entropy, 2019, 21, 1225.	2.2	0
2100	Fractal Time Series Analysis in Non-Stationary Environment. , 2019, , .		14

#	Article	IF	Citations
2101	Generalized theory for detrending moving-average cross-correlation analysis: A practical guide. Chaos, Solitons and Fractals: X, 2019, 3, 100022.	2.1	7
2102	Nonlinear Dynamics of Seismicity and Fault Zone Dynamics Around Large Dams: The Case of Enguri Dam, Caucasus. Proceedings (mdpi), 2019, 24, .	0.2	0
2103	Effect of EKG Sampling Rate on Heart Rate Variability Analysis. , 2019, 2019, 6780-6783.		4
2104	Multi-class Surveillance for Acute Respiratory Distress Syndrome using Belief Functions. , 2019, , .		0
2105	MobiCardio: A Clinical-grade Mobile Health System for Cardiovascular Disease Management. , 2019, , .		12
2106	Mitigation of Ionospheric Scintillation Effects on GNSS Signals with VMD-MFDFA. Remote Sensing, 2019, 11, 2867.	4.0	8
2107	Multifractal detrended fluctuation analysis of heart rate variability predicts short-term outcomes of patients with sepsis. , 2019, , .		1
2108	The effects of match congestion on gait complexity in female collegiate soccer players. Translational Sports Medicine, 2019, 2, 130-137.	1.1	1
2109	Comparable Stride Time Fractal Dynamics and Gait Adaptability in Active Young and Older Adults Under Normal and Asymmetric Walking. Frontiers in Physiology, 2019, 10, 1318.	2.8	10
2110	Comparison of methods for the assessment of nonlinearity in short-term heart rate variability under different physiopathological states. Chaos, 2019, 29, 123114.	2.5	38
2111	A Parkinsonâ€™s Disease Classification Method: An Approach Using Gait Dynamics and Detrended Fluctuation Analysis. , 2019, , .		12
2112	Modeling the Ongoing Dynamics of Short and Long-Range Temporal Correlations in Broadband EEG During Movement. Frontiers in Systems Neuroscience, 2019, 13, 66.	2.5	9
2113	Scaling behaviour in music and cortical dynamics interplay to mediate music listening pleasure. Scientific Reports, 2019, 9, 17700.	3.3	14
2114	Fractal nature of groundwater level fluctuations affected by riparian zone vegetation water use and river stage variations. Scientific Reports, 2019, 9, 15383.	3.3	6
2115	Long-Range Behaviour and Correlation in DFA and DCCA Analysis of Cryptocurrencies. International Journal of Financial Studies, 2019, 7, 51.	2.3	18
2117	Temporal Variability in the Sampling of Vital Sign Data Limits the Accuracy of Patient State Estimation*. Pediatric Critical Care Medicine, 2019, 20, e333-e341.	0.5	12
2118	Analytical representation of Gaussian processes in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="script">A</mml:mi><mml:mtext mathvariant="script">â^’</mml:mtext><mml:mi mathvariant="script">T</mml:mi></mml:mrow></mml:math> plane. Physical Review E, 2019, 100, 062144.	2.1	5
2119	Decreased electrocortical temporal complexity distinguishes sleep from wakefulness. Scientific Reports, 2019, 9, 18457.	3.3	32

#	Article	IF	Citations
2121	Frontier marketsâ€™ efficiency: mutual information and detrended fluctuation analyses. Journal of Economic Interaction and Coordination, 2019, 14, 551-572.	0.7	15
2122	Multifractality of Unperturbed and Asymmetric Locomotion. Journal of Motor Behavior, 2019, 51, 394-405.	0.9	8
2123	Stylised facts for high frequency cryptocurrency data. Physica A: Statistical Mechanics and Its Applications, 2019, 513, 598-612.	2.6	50
2124	Vagal effects of endocrine HPA axis challenges on resting autonomic activity assessed by heart rate variability measures in healthy humans. Psychoneuroendocrinology, 2019, 102, 196-203.	2.7	38
2125	Walking speed and spatiotemporal step mean measures are reliable during feedback-controlled treadmill walking; however, spatiotemporal step variability is not reliable. Journal of Biomechanics, 2019, 83, 221-226.	2.1	16
2126	Visibility graph analysis of speech evoked auditory brainstem response in persistent developmental stuttering. Neuroscience Letters, 2019, 696, 28-32.	2.1	20
2127	The complexityâ€“entropy causality plane based on multivariate multiscale distribution entropy of traffic time series. Nonlinear Dynamics, 2019, 95, 617-629.	5.2	14
2128	Automated EEG Analysis for Neonatal Intensive Care. , 2019, , 240-257.		0
2129	A Review on Nonlinear Methods Using Electroencephalographic Recordings for Emotion Recognition. IEEE Transactions on Affective Computing, 2021, 12, 801-820.	8.3	69
2130	Long-range correlation analysis among non-stationary passive scalar series in the turbulent boundary layer. Physica A: Statistical Mechanics and Its Applications, 2019, 517, 290-296.	2.6	1
2131	Heterogeneity of Scaling of the Observed Global Temperature Data. Journal of Climate, 2019, 32, 349-367.	3.2	12
2132	The influence of reward sensitivity, heart rate dynamics and EEG-delta activity on placebo analgesia. Behavioural Brain Research, 2019, 359, 320-332.	2.2	19
2133	Detection of epileptic seizure employing a novel set of features extracted from multifractal spectrum of electroencephalogram signals. IET Signal Processing, 2019, 13, 157-164.	1.5	24
2134	Multifractal detrended fluctuation analysis of continuous neural time series in primate visual cortex. Journal of Neuroscience Methods, 2019, 312, 84-92.	2.5	12
2135	Fractal behavior of the trajectories of the foot centers of pressure during pregnancy. Biomedical Physics and Engineering Express, 2019, 5, 025007.	1.2	3
2136	Heart rate variability changes in major depressive disorder during sleep: Fractal index correlates with BDI score during REM sleep. Psychiatry Research, 2019, 271, 291-298.	3.3	18
2137	Quantifying the Mind: Worry, Tension, and Anxiety. , 2019, , 353-362.		0
2138	Dynamics of spontaneous alpha activity correlate with language ability in young children. Behavioural Brain Research, 2019, 359, 56-65.	2.2	15

#	Article	IF	Citations
2139	On the design of automatic voice condition analysis systems. Part II: Review of speaker recognition techniques and study on the effects of different variability factors. Biomedical Signal Processing and Control, 2019, 48, 128-143.	5.7	34
2140	An optimal strategy for prediction of sudden cardiac death through a pioneering feature-selection approach from HRV signal. Computer Methods and Programs in Biomedicine, 2019, 169, 19-36.	4.7	48
2141	Transactions on Engineering Technologies. , 2019, , .		0
2142	Electric field dependence of dc conductivity in As2Te3 (in) thin films. Journal of Non-Crystalline Solids, 2019, 503-504, 13-19.	3.1	0
2143	Which heart rate variability index is an independent predictor of mortality in cirrhosis?. Digestive and Liver Disease, 2019, 51, 695-702.	0.9	31
2144	On multifractals: A non-linear study of actigraphy data. Physica A: Statistical Mechanics and Its Applications, 2019, 514, 612-619.	2.6	11
2145	Temporal Scaling Analytical Method to Identify Multiâ€Fractionality in Groundwater Head Fluctuations. Ground Water, 2019, 57, 485-491.	1.3	5
2146	Relationship between stride interval variability and aging: use of linear and non-linear estimators for gait variability assessment in assisted living environments. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 2095-2109.	4.9	6
2147	Wavelet p-Leader Non Gaussian Multiscale Expansions for Heart Rate Variability Analysis in Congestive Heart Failure Patients. IEEE Transactions on Biomedical Engineering, 2019, 66, 80-88.	4.2	12
2148	Non-linear trends and fluctuations in temperature during different growth stages of summer maize in the North China Plain from 1960 to 2014. Theoretical and Applied Climatology, 2019, 135, 61-70.	2.8	1
2149	Cardiovascular impact of intravenous caffeine in preterm infants. Acta Paediatrica, International Journal of Paediatrics, 2019, 108, 423-429.	1.5	14
2150	Precursory Analysis of GPS Time Series for Seismic Hazard Assessment. Pure and Applied Geophysics, 2020, 177, 509-530.	1.9	9
2151	Heart rate variability: Measurement and emerging use in critical care medicine. Journal of the Intensive Care Society, 2020, 21, 148-157.	2.2	51
2152	Heart rate variability is depressed in the early transitional period for newborns with complex congenital heart disease. Clinical Autonomic Research, 2020, 30, 165-172.	2.5	11
2153	Impact of Oxidative Stress on Long-Term Heart Rate Variability: Linear Versus Non-Linear Heart Rate Dynamics. Heart Lung and Circulation, 2020, 29, 1164-1173.	0.4	6
2154	Glottal Activity Detection from the Speech Signal Using Multifractal Analysis. Circuits, Systems, and Signal Processing, 2020, 39, 2118-2150.	2.0	10
2155	Evaluation of missing ordinal pattern and its fractional distribution entropy. Physica A: Statistical Mechanics and Its Applications, 2020, 537, 122317.	2.6	1
2156	Cellular and Extracellular Homeostasis in Fluctuating Mechanical Environments. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2020, , 83-121.	1.0	3

#	Article	IF	Citations
2157	Evaluation of task difficulty based on fluctuation characteristics in writing task. Artificial Life and Robotics, 2020, 25, 17-23.	1.2	2
2159	Correlation properties of heart rate variability during endurance exercise: A systematic review. Annals of Noninvasive Electrocardiology, 2020, 25, e12697.	1.1	47
2160	Sex differences in adolescentsâ€™ cardiac reactivity and recovery under acute stress: The importance of nonlinear measures. Psychophysiology, 2020, 57, e13488.	2.4	3
2161	Targeted Perfusion Therapy in Spinal Cord Trauma. Neurotherapeutics, 2020, 17, 511-521.	4.4	39
2162	Temporal ordering of input modulates connectivity formation in a developmental neuronal network model of the cortex. PLoS ONE, 2020, 15, e0226772.	2.5	7
2163	Detrended fluctuation analysis of seismicity and order parameter fluctuations before the M7.1 Ridgecrest earthquake. Natural Hazards, 2020, 100, 697-711.	3.4	18
2164	Comparison of a portable balance board for measures of persistence in postural sway. Journal of Biomechanics, 2020, 100, 109600.	2.1	3
2165	TTA, a new approach to estimate Hurst exponent with less estimation error and computational time. Physica A: Statistical Mechanics and Its Applications, 2020, 553, 124093.	2.6	14
2166	Influence of glucometric â€˜dynamicalâ€™ variables on duodenalâ€jejunal bypass liner (DJBL) anthropometric and metabolic outcomes. Diabetes/Metabolism Research and Reviews, 2020, 36, e3287.	4.0	3
2167	Analysis of the regularity of the Internet Interdomain Routing dynamics. Physica A: Statistical Mechanics and Its Applications, 2020, 551, 124142.	2.6	5
2168	Heart Rhythm Complexity Predicts Longâ€Term Cardiovascular Outcomes in Peritoneal Dialysis Patients: A Prospective Cohort Study. Journal of the American Heart Association, 2020, 9, e013036.	3.7	8
2169	Fractal Analysis of Data from Seismometer Array Monitoring Virgo Interferometer. Pure and Applied Geophysics, 2020, 177, 2597-2603.	1.9	4
2170	Short-term HRV in young adults for momentary assessment of acute mental stress. Biomedical Signal Processing and Control, 2020, 57, 101746.	5.7	11
2171	Bodywide fluctuations support manual exploration: Fractal fluctuations in posture predict perception of heaviness and length via effortful touch by the hand. Human Movement Science, 2020, 69, 102543.	1.4	26
2172	Identification of short-term and long-term time scales in stock markets and effect of structural break. Physica A: Statistical Mechanics and Its Applications, 2020, 545, 123612.	2.6	10
2173	Age differences in cardiac autonomic regulation during intermittent exercise in the heat. European Journal of Applied Physiology, 2020, 120, 453-465.	2.5	6
2174	Scaling features of priceâ€“volume cross correlation. Physica A: Statistical Mechanics and Its Applications, 2020, 549, 124111.	2.6	5
2175	Fluctuation analysis of electric power loads in Europe: Correlation multifractality vs. Distribution function multifractality. Physica A: Statistical Mechanics and Its Applications, 2020, 545, 123821.	2.6	5

#	Article	IF	Citations
2176	Neonatal Sepsis Alters the Excitability of Regular Spiking Cells in the Nucleus of the Solitary Tract in Rats. Shock, 2020, 54, 265-271.	2.1	4
2177	The effects of extremes and temporal scale on multifractal properties of river flow time series. River Research and Applications, 2020, 36, 171-182.	1.7	10
2178	Power-law scaling behavior of A-phase events during sleep: Normal and pathologic conditions. Biomedical Signal Processing and Control, 2020, 57, 101757.	5.7	2
2179	Prediction of complex oscillations in the dynamics of coupled chaotic systems using transients. Physica A: Statistical Mechanics and Its Applications, 2020, 545, 123818.	2.6	2
2180	Fractal Characterization of ECG signals: Indian Classical Music as stimulus. , 2020, , .		1
2181	Load Magnitude and Locomotion Pattern Alter Locomotor System Function in Healthy Young Adult Women. Frontiers in Bioengineering and Biotechnology, 2020, 8, 582219.	4.1	12
2182	Fractal Correlation Properties of Heart Rate Variability: A New Biomarker for Intensity Distribution in Endurance Exercise and Training Prescription?. Frontiers in Physiology, 2020, 11, 550572.	2.8	43
2183	Gait complexity is acutely restored in older adults when walking to a fractal-like visual stimulus. Human Movement Science, 2020, 74, 102677.	1.4	22
2184	Multiscale dynamics under the lens of permutation entropy. Physica A: Statistical Mechanics and Its Applications, 2020, 559, 125081.	2.6	6
2185	PyBioS: A freeware computer software for analysis of cardiovascular signals. Computer Methods and Programs in Biomedicine, 2020, 197, 105718.	4.7	24
2186	Immersive Virtual Reality to Restore Natural Long-Range Autocorrelations in Parkinsonâ€™s Disease Patientsâ€™ Gait During Treadmill Walking. Frontiers in Physiology, 2020, 11, 572063.	2.8	19
2187	Computerized Analysis of the Ventricular Fibrillation Waveform Allows Identification of Myocardial Infarction: A Proofâ€ofâ€Concept Study for Smart Defibrillator Applications in Cardiac Arrest. Journal of the American Heart Association, 2020, 9, e016727.	3.7	7
2188	Where Do We Stand in the Domestic Dog (Canis familiaris) Positive-Emotion Assessment: A State-of-the-Art Review and Future Directions. Frontiers in Psychology, 2020, 11, 2131.	2.1	13
2189	Self-Affine Analysis of ENSO in Solar Radiation. Energies, 2020, 13, 4816.	3.1	4
2190	Exploring the physical interpretation of long-term memory in hydrology. Stochastic Environmental Research and Risk Assessment, 2020, 34, 2083-2091.	4.0	8
2191	Complex Periodicity and Synchronization. Frontiers in Physiology, 2020, 11, 563068.	2.8	4
2192	Heart rate fragmentation gives novel insights into non-autonomic mechanisms governing beat-to-beat control of the heartâ€™s rhythm. JRSM Cardiovascular Disease, 2020, 9, 204800402094873.	0.7	9
2193	Analysis of heart rate variability to understand the effect of cannabis consumption on Indian male paddy-field workers. Biomedical Signal Processing and Control, 2020, 62, 102072.	5.7	10

#	Article	IF	Citations
2194	Power-Law Exponent Modulated Multiscale Entropy: A Complexity Measure Applied to Physiologic Time Series. IEEE Access, 2020, 8, 112725-112734.	4.2	5
2195	Impact of observational error on heart rate variability analysis. Heliyon, 2020, 6, e03984.	3.2	8
2196	Heart rate variability in older men on the day following prolonged work in the heat. Journal of Occupational and Environmental Hygiene, 2020, 17, 383-389.	1.0	8
2197	Fractal signature of coronaviruses related to severe acute respiratory syndrome. Research on Biomedical Engineering, 2022, 38, 293-297.	2.2	6
2198	Investigating fractal dimension, heart rate variability, and memory during different image sequencing regimes in young adults. Chaos, 2020, 30, 113116.	2.5	3
2199	Core and matrix thalamic sub-populations relate to spatio-temporal cortical connectivity gradients. NeuroImage, 2020, 222, 117224.	4.2	58
2200	Memory Effect in the Spatial Series Based on Diamond and Graphite Crystals. Molecules, 2020, 25, 5387.	3.8	2
2201	Detrended fluctuation analysis of gait dynamics when entraining to music and metronomes at different tempi in persons with multiple sclerosis. Scientific Reports, 2020, 10, 12934.	3.3	8
2202	The Relationship Between Nonlinear Heart Rate Variability and Echocardiographic Indices in Chagas Disease. , 2020, , .		0
2203	A Critical Analysis on Characterizing the Meditation Experience Through the Electroencephalogram. Frontiers in Systems Neuroscience, 2020, 14, 53.	2.5	29
2204	The Advantage of Supine and Standing Heart Rate Variability Analysis to Assess Training Status and Performance in a Walking Ultramarathon. Frontiers in Physiology, 2020, 11, 731.	2.8	4
2205	Detrending-moving-average-based bivariate regression estimator. Physical Review E, 2020, 102, 012218.	2.1	7
2206	Extended detrended fluctuation analysis of electroencephalograms signals during sleep and the opening of the bloodâ€“brain barrier. Chaos, 2020, 30, 073138.	2.5	19
2207	Spectral and Nonlinear Analysis of Electrodermal Activity in Adolescent Anorexia Nervosa. Applied Sciences (Switzerland), 2020, 10, 4514.	2.5	7
2208	Assessment of diurnal variation of stride time variability during continuous, overground walking in healthy young adults. Gait and Posture, 2020, 79, 108-110.	1.4	3
2209	Functional Variability in Team-Handball Players during Balance Is Revealed by Non-Linear Measures and Is Related to Age and Expertise Level. Entropy, 2020, 22, 822.	2.2	8
2210	Analysis of Time Dynamical Features in Intraplate Versus Interplate Seismicity: The Case Study of Iquique Area (Chile). Pure and Applied Geophysics, 2020, 177, 4755-4773.	1.9	8
2211	Scale Features of a Network Echo Mechanism: Case Study for the Different Internet Paths. Journal of Computer Networks and Communications, 2020, 2020, 1-9.	1.6	0

#	Article	IF	Citations
2212	Dynamical heart beat correlations during running. Scientific Reports, 2020, 10, 13627.	3.3	8
2213	Multifractal Analysis of Market Efficiency across Structural Breaks: Implications for the Adaptive Market Hypothesis. Journal of Risk and Financial Management, 2020, 13, 248.	2.3	12
2214	Age-Related Distinctions in EEG Signals during Execution of Motor Tasks Characterized in Terms of Long-Range Correlations. Sensors, 2020, 20, 5843.	3.8	23
2215	A measure of complexity based on the order patterns. Nonlinear Dynamics, 2020, 102, 1925-1938.	5.2	1
2216	Infantsâ€™ gaze exhibits a fractal structure that varies by age and stimulus salience. Scientific Reports, 2020, 10, 17216.	3.3	10
2217	A Multiplex Connectivity Map of Valence-Arousal Emotional Model. IEEE Access, 2020, 8, 170928-170938.	4.2	11
2218	C. elegans episodic swimming is driven by multifractal kinetics. Scientific Reports, 2020, 10, 14775.	3.3	7
2219	Crosscorrelation Analysis between P2P Lending Market and Stock Market in China. Mathematical Problems in Engineering, 2020, 2020, 1-9.	1.1	2
2220	Oceanic thermal structure mediates dive sequences in a foraging seabird. Ecology and Evolution, 2020, 10, 6610-6622.	1.9	15
2221	Entropy Analysis of RR-Time Series From Stress Tests. Frontiers in Physiology, 2020, 11, 981.	2.8	26
2222	The Hurst Exponent of Heart Rate Variability in Neonatal Stress, Based on a Mean-Reverting Fractional LÃ©vy Stable Motion. Fluctuation and Noise Letters, 2020, 19, 2050026.	1.5	6
2223	Time Series Analysis of Photospheric Magnetic Parameters of Flare-Quiet Versus Flaring Active Regions: Scaling Properties of Fluctuations. Solar Physics, 2020, 295, 1.	2.5	2
2224	Usefulness of heart rhythm complexity in heart failure detection and diagnosis. Scientific Reports, 2020, 10, 14916.	3.3	23
2225	Reliability of Electroencephalogram-Based Individual Markers â€“ Case Study*. , 2020, 2020, 276-279.		1
2226	PORTFOLIO MODEL UNDER FRACTAL MARKET BASED ON MEAN-DCCA. Fractals, 2020, 28, 2050142.	3.7	4
2227	Application of the Lomb-Scargle Periodogram to InvestigateHeart Rate Variability during Haemodialysis. Journal of Healthcare Engineering, 2020, 2020, 1-18.	1.9	5
2228	A Tale of Two Layers: The Mutual Relationship between Bitcoin and Lightning Network. Risks, 2020, 8, 129.	2.4	3
2229	Influence of Autocorrelated Rhythmic Auditory Stimulations on Parkinsonâ€™s Disease Gait Variability: Comparison With Other Auditory Rhythm Variabilities and Perspectives. Frontiers in Physiology, 2020, 11, 601721.	2.8	4

#	Article	IF	Citations
2230	Patient, interrupted: MEG oscillation dynamics reveal temporal dysconnectivity in schizophrenia. NeuroImage: Clinical, 2020, 28, 102485.	2.7	10
2231	Efficiency of Price Movements in Futures Markets. Indian Economic Journal, 2020, 68, 193-206.	0.8	1
2232	Heart rhythm complexity as predictors for the prognosis of end-stage renal disease patients undergoing hemodialysis. BMC Nephrology, 2020, 21, 536.	1.8	6
2233	Network Physiology of Exercise: Vision and Perspectives. Frontiers in Physiology, 2020, 11, 611550.	2.8	64
2234	Complexity and Disorder of 1/fÎ± Noises. Entropy, 2020, 22, 1127.	2.2	3
2235	Assessment of the impact of fouling on vessel energy efficiency by analyzing ship automation data. Applied Ocean Research, 2020, 105, 102418.	4.1	11
2236	Detection of Depression and Scaling of Severity Using Six Channel EEG Data. Journal of Medical Systems, 2020, 44, 118.	3.6	44
2237	Detecting cardiac pathologies via machine learning on heart-rate variability time series and related markers. Scientific Reports, 2020, 10, 8845.	3.3	34
2238	Influence Of Performance Level Of Male Runners On Non-linear Dynamics Of Heart Rate Variability During a 10Km Race. International Journal of Performance Analysis in Sport, 2020, 20, 569-583.	1.1	6
2239	Global broadcasting of local fractal fluctuations in a bodywide distributed system supports perception via effortful touch. Chaos, Solitons and Fractals, 2020, 135, 109740.	5.1	25
2240	The effect of persistent U-shaped patterns in RR night-time series on the heart rate variability complexity in healthy humans. Physiological Measurement, 2020, 41, 065001.	2.1	6
2241	Fluctuations of the entropy change under time reversal: Further investigations on identifying the occurrence time of an impending major earthquake. Europhysics Letters, 2020, 130, 29001.	2.0	33
2242	Stylized facts of the carbon emission market in China. Physica A: Statistical Mechanics and Its Applications, 2020, 555, 124739.	2.6	8
2243	A Modified Fluctuation Analysis of Nonstationary Processes. Technical Physics Letters, 2020, 46, 299-302.	0.7	1
2244	Intrinsic activity temporal structure reactivity to behavioural state change is correlated with depressive symptoms. European Journal of Neuroscience, 2020, 52, 4840-4850.	2.6	4
2245	Machine-learning-based diagnostics of EEG pathology. NeuroImage, 2020, 220, 117021.	4.2	119
2246	Non-linear analysis of heart rate variability for evaluating the acute effects of caffeinated beverages in young adults. Cardiology in the Young, 2020, 30, 1018-1023.	0.8	7
2247	The Effect of Translation on Text Coherence: A Quantitative Study. Journal of Quantitative Linguistics, 2022, 29, 151-164.	1.2	1

#	Article	IF	Citations
2248	Signatures of the autonomic nervous system and the heartâ€™s pacemaker cells in canine electrocardiograms and their applications to humans. Scientific Reports, 2020, 10, 9971.	3.3	31
2249	Feature Engineering and Computational Intelligence in ECG Monitoring. , 2020, , .		6
2250	Extended detrended fluctuation analysis of sound-induced changes in brain electrical activity. Chaos, Solitons and Fractals, 2020, 139, 109989.	5.1	15
2251	Editorial: Fractal and Multifractal Facets in the Structure and Dynamics of Physiological Systems and Applications to Homeostatic Control, Disease Diagnosis and Integrated Cyber-Physical Platforms. Frontiers in Physiology, 2020, 11, 447.	2.8	4
2252	Age-Dependent Statistical Changes of Involuntary Head Motion Signatures Across Autism and Controls of the ABIDE Repository. Frontiers in Integrative Neuroscience, 2020, 14, 23.	2.1	10
2253	Differences in reproducibility of gait variability and fractal dynamics according to walking duration. Technology and Health Care, 2020, 28, 383-390.	1.2	3
2254	Multivariate multiscale increment entropy: a complexity measure for detecting flow pattern transition in multiphase flows. Nonlinear Dynamics, 2020, 100, 3853-3865.	5.2	6
2255	Measurement of excitation-inhibition ratio in autism spectrum disorder using critical brain dynamics. Scientific Reports, 2020, 10, 9195.	3.3	102
2256	Skin temperature variability is an independent predictor of survival in patients with cirrhosis. Physiological Reports, 2020, 8, e14452.	1.7	10
2257	Long-Lasting Patterns in 3 kHz Electromagnetic Time Series after the ML = 6.6 Earthquake of 2018-10-25 near Zakynthos, Greece. Geosciences (Switzerland), 2020, 10, 235.	2.2	9
2258	Comparison of fetal heart rate variability by symbolic dynamics at the third trimester of pregnancy and low-risk parturition. Heliyon, 2020, 6, e03485.	3.2	9
2259	Effects of Normobaric Hypoxia on Oxygen Saturation Variability. High Altitude Medicine and Biology, 2020, 21, 76-83.	0.9	15
2260	In and out of synchronyâ€”Behavioral and physiological dynamics of dyadic interpersonal coordination. Psychophysiology, 2020, 57, e13574.	2.4	89
2261	Scale invariance in the series of Chinese-character lengths. International Journal of Modern Physics C, 2020, 31, 2050018.	1.7	0
2262	Slow 0.1 Hz Breathing and Body Posture Induced Perturbations of RRI and Respiratory Signal Complexity and Cardiorespiratory Coupling. Frontiers in Physiology, 2020, 11, 24.	2.8	12
2263	Assessing the Temporal Organization of Walking Variability: A Systematic Review and Consensus Guidelines on Detrended Fluctuation Analysis. Frontiers in Physiology, 2020, 11, 562.	2.8	27
2264	Multifractal analysis of Indian public sector enterprises. Physica A: Statistical Mechanics and Its Applications, 2020, 557, 124881.	2.6	4
2265	Topological Representation of Rare States Using Combination of Persistent Homology and Complexity Measures. , 2020, , .		3

#	Article	IF	Citations
2266	Persistence Analysis and Prediction of Low-Visibility Events at Valladolid Airport, Spain. Symmetry, 2020, 12, 1045.	2.2	20
2267	Detrended fluctuation analysis using orthogonal polynomials. Physical Review E, 2020, 101, 010201.	2.1	4
2268	Cardiovascular Mortality Can Be Predicted by Heart Rate Turbulence in Hemodialysis Patients. Frontiers in Physiology, 2020, 11, 77.	2.8	11
2269	Examining Human Unipedal Quiet Stance: Characterizing Control through Jerk. Computational and Mathematical Methods in Medicine, 2020, 2020, 1-15.	1.3	3
2270	On the Statistical Significance of the Variability Minima of the Order Parameter of Seismicity by Means of Event Coincidence Analysis. Applied Sciences (Switzerland), 2020, 10, 662.	2.5	17
2271	Forecast model for financial time series: An approach based on harmonic oscillators. Physica A: Statistical Mechanics and Its Applications, 2020, 549, 124365.	2.6	7
2272	Auditory and Visual External Cues Have Different Effects on Spatial but Similar Effects on Temporal Measures of Gait Variability. Frontiers in Physiology, 2020, 11, 67.	2.8	23
2273	Detrended fluctuation analysis of cerebrovascular responses to abrupt changes in peripheral arterial pressure in rats. Communications in Nonlinear Science and Numerical Simulation, 2020, 85, 105232.	3.3	26
2274	First evidence that intrinsic fetal heart rate variability exists and is affected by hypoxic pregnancy. Journal of Physiology, 2020, 598, 249-263.	2.9	26
2275	Multifractal behavior in the dynamics of Brazilian inflation indices. Physica A: Statistical Mechanics and Its Applications, 2020, 550, 124158.	2.6	26
2276	Flow as an Embodied State. Informed Awareness of Slackline Walking. Frontiers in Psychology, 2019, 10, 2993.	2.1	14
2277	Long-range dependence, multi-fractality and volume-return causality of Ether market. Chaos, 2020, 30, 011101.	2.5	15
2278	Early identification of cardiac autonomic neuropathy using complexity analysis in children with type 1 diabetes. Journal of Paediatrics and Child Health, 2020, 56, 786-790.	0.8	2
2279	Phase resetting and intermittent control at the edge of stability in a simple biped model generates 1/f-like gait cycle variability. Biological Cybernetics, 2020, 114, 95-111.	1.3	7
2280	Association Factor for Identifying Linear and Nonlinear Correlations in Noisy Conditions. Entropy, 2020, 22, 440.	2.2	3
2281	Nonlinear Methods Most Applied to Heart-Rate Time Series: A Review. Entropy, 2020, 22, 309.	2.2	78
2282	A tutorial on fractal analysis of human movements. , 2020, , 313-344.		4
2283	Heart rate n-variability (HRnV) and its application to risk stratification of chest pain patients in the emergency department. BMC Cardiovascular Disorders, 2020, 20, 168.	1.7	15

#	Article	IF	Citations
2284	How Age, Cognitive Function and Gender Affect Bimanual Force Control. Frontiers in Physiology, 2020, 11, 245.	2.8	12
2285	Fractal Analysis of Human Gait Variability via Stride Interval Time Series. Frontiers in Physiology, 2020, 11, 333.	2.8	37
2286	Correlated power time series of individual wind turbines: A data driven model approach. Journal of Renewable and Sustainable Energy, 2020, 12, .	2.0	10
2287	Baroreceptor denervation reduces inflammatory status but worsens cardiovascular collapse during systemic inflammation. Scientific Reports, 2020, 10, 6990.	3.3	5
2288	Properties of balanced flows with bottlenecks: Common stylized facts in finance and vibration-driven vehicles. Physical Review E, 2020, 101, 042302.	2.1	6
2289	Heart Rate Variability in Children and Adolescents with Cerebral Palsyâ€"A Systematic Literature Review. Journal of Clinical Medicine, 2020, 9, 1141.	2.4	13
2290	Autonomic nervous system maturation in the premature extrauterine milieu. Pediatric Research, 2021, 89, 863-868.	2.3	10
2291	Long-memory traces in $$hbox {PM}_{10}$$ time series in Athens, Greece: investigation through DFA and R/S analysis. Meteorology and Atmospheric Physics, 2021, 133, 261-279.	2.0	11
2292	Estimating Left Ventricle Ejection Fraction Levels Using Circadian Heart Rate Variability Features and Support Vector Regression Models. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 746-754.	6.3	23
2293	Academic Performance Prediction Based on Multisource, Multifeature Behavioral Data. IEEE Access, 2021, 9, 5453-5465.	4.2	28
2294	Delayed association of acute particulate matter 2.5 air pollution exposure with loss of complexity in cardiac rhythm dynamics: insight from detrended fluctuation analysis. Environmental Science and Pollution Research, 2021, 28, 10931-10939.	5.3	3
2295	Complex dynamics of skin sympathetic nerve activities as a prognostic predictor for critically ill patients. Journal of the Formosan Medical Association, 2021, 120, 660-667.	1.7	3
2296	Fragmented sinoatrial dynamics in the prediction of atrial fibrillation: the Multi-Ethnic Study of Atherosclerosis. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H256-H271.	3.2	9
2297	Prolonged Standing Task Affects Adaptability of Postural Control in People With Parkinsonâ€™s Disease. Neurorehabilitation and Neural Repair, 2021, 35, 58-67.	2.9	9
2298	EEG Signal denoising using hybrid approach of Variational Mode Decomposition and wavelets for depression. Biomedical Signal Processing and Control, 2021, 65, 102337.	5.7	47
2299	Flash glucose monitoring data analysed by detrended fluctuation function on betaâ€cell function and diabetes classification. Diabetes, Obesity and Metabolism, 2021, 23, 774-781.	4.4	3
2300	Detection of crossover points in detrended fluctuation analysis: an application to EEG signals of patients with epilepsy. Bioinformatics, 2021, 37, 1278-1284.	4.1	3
2301	Information flux in complex networks: Path to stylized facts. Physica A: Statistical Mechanics and Its Applications, 2021, 566, 125638.	2.6	2

#	Article	IF	Citations
2302	Revisiting the relations between Hurst exponent and fractional differencing parameter for long memory. Physica A: Statistical Mechanics and Its Applications, 2021, 566, 125603.	2.6	11
2303	Analysis of intentional lethal violent crimes: A sliding windows approach. Physica A: Statistical Mechanics and Its Applications, 2021, 567, 125653.	2.6	4
2304	Detrended fluctuation analysis can detect the impairment of heart rate regulation in patients with heart failure with preserved ejection fraction. Journal of Cardiology, 2021, 77, 72-78.	1.9	9
2305	Redundancy among risk predictors derived from heart rate variability and dynamics: ALLSTAR big data analysis. Annals of Noninvasive Electrocardiology, 2021, 26, e12790.	1.1	11
2306	EFFECT OF FILTERS ON MULTIVARIATE MULTIFRACTAL DETRENDED FLUCTUATION ANALYSIS. Fractals, 2021, 29, 2150047.	3.7	5
2307	Are oil and gas futures markets efficient? A multifractal analysis. Applied Economics, 2021, 53, 164-184.	2.2	11
2308	Long memory and crude oilâ€™s price predictability. Annals of Operations Research, 2021, 299, 895-906.	4.1	10
2309	Assessing Postural Instability and Cybersickness Through Linear and Angular Displacement. Human Factors, 2021, 63, 296-311.	3.5	20
2310	Irregular Metronomes as Assistive Devices to Promote Healthy Gait Patterns. , 2021, 2021, .		2
2311	Market Analysis of Blockchain-Based Cryptocurrencies. , 2021, , 135-158.		0
2312	Portable EEG monitoring for older adults with dementia and chronic pain - A feasibility study. Geriatric Nursing, 2021, 42, 124-128.	1.9	9
2313	Fractal and multifractal characterization of in vitro respiratory recordings of the pre-BÃ¶tzinger complex. Brain Multiphysics, 2021, 2, 100026.	2.3	0
2314	Extended detrended fluctuation analysis: effects of nonstationarity and application to sleep data. European Physical Journal Plus, 2021, 136, 1.	2.6	10
2315	Beat-to-beat blood pressure variability: an early predictor of disease and cardiovascular risk. Journal of Hypertension, 2021, 39, 830-845.	0.5	15
2316	Measurement and analysis of heart rate variability. , 2021, , 145-173.		0
2317	A New Detection Method Defining the Aerobic Threshold for Endurance Exercise and Training Prescription Based on Fractal Correlation Properties of Heart Rate Variability. Frontiers in Physiology, 2020, 11, 596567.	2.8	46
2318	Non-linear heart rate dynamics during and after three controlled exercise intensities in healthy men. Physiology International, 2021, 107, 501-512.	1.6	7
2319	Quantitative Assessment of Learning and Retention in Virtual Vocal Function Exercises. Journal of Speech, Language, and Hearing Research, 2021, 64, 1-15.	1.6	6

#	Article	IF	Citations
2320	Interpolating average based detrending fluctuation method for measuring heart rate variability in the menstrual cycle. Multimedia Tools and Applications, 2021, 80, 14191-14211.	3.9	0
2321	Complexity Measures of Heart-Rate Variability in Amyotrophic Lateral Sclerosis with Alternative Pulmonary Capacities. Entropy, 2021, 23, 159.	2.2	2
2322	Digital oximetry biomarkers for assessing respiratory function: standards of measurement, physiological interpretation, and clinical use. Npj Digital Medicine, 2021, 4, 1.	10.9	304
2323	Effects of Sleep Deprivation on the Brain Electrical Activity in Mice. Applied Sciences (Switzerland), 2021, 11, 1182.	2.5	6
2324	Measures of repolarization variability predict ventricular arrhythmogenesis in heptanol-treated Langendorff-perfused mouse hearts. Current Research in Physiology, 2021, 4, 125-134.	1.7	4
2325	Robust Detection of Atrial Arrhythmias Using Sub-modules of Different Feature Predictors. Lecture Notes in Bioengineering, 2021, , 17-28.	0.4	2
2326	Evaluation of handwriting task difficulty based on detrended fluctuation analysis. Artificial Life and Robotics, 2021, 26, 169-175.	1.2	1
2327	Wave-shape oscillatory model for nonstationary periodic time series analysis. , 2021, 3, 99.		10
2328	Influence of Artefact Correction and Recording Device Type on the Practical Application of a Non-Linear Heart Rate Variability Biomarker for Aerobic Threshold Determination. Sensors, 2021, 21, 821.	3.8	24
2329	Prediction of Menstrual Cycle Phase by Wearable Heart Rate Sensor. Advances in Computer and Electrical Engineering Book Series, 2021, , 1-15.	0.3	0
2330	Long-term stability of resting state EEG-based linear and nonlinear measures. International Journal of Psychophysiology, 2021, 159, 83-87.	1.0	5
2331	Optimal Setting for Hurst Index Estimation and Its Application in Chinese Stock Market. IEEE Access, 2021, 9, 93315-93330.	4.2	3
2332	Multiscale adaptive multifractal analysis and its applications. Chaos, 2021, 31, 023115.	2.5	3
2333	Beating Rate Variability of Isolated Mammal Sinoatrial Node Tissue: Insight Into Its Contribution to Heart Rate Variability. Frontiers in Neuroscience, 2020, 14, 614141.	2.8	4
2334	Age-Related Changes in Standing Balance in Preschoolers Using Traditional and Nonlinear Methods. Frontiers in Physiology, 2021, 12, 625553.	2.8	2
2335	An Early Stage Researcher's Primer on Systems Medicine Terminology. Network and Systems Medicine, 2021, 4, 2-50.	2.5	9
2336	Differentiation of fluctuations in uterine contractions associated with Term pregnancies using adaptive fractal features of electromyography signals. Medical Engineering and Physics, 2021, 88, 78-85.	1.7	1
2337	Generalized Hurst Hypothesis: Description of Time-Series in Communication Systems. Mathematics, 2021, 9, 381.	2.2	3

#	Article	IF	Citations
2338	Multifractal detrended fluctuation analysis based on optimized empirical mode decomposition for complex signal analysis. Nonlinear Dynamics, 2021, 103, 2461-2474.	5.2	10
2339	Group housing and social dominance hierarchy affect circadian activity patterns in mice. Royal Society Open Science, 2021, 8, 201985.	2.4	8
2340	Complexity of Body Movements during Sleep in Children with Autism Spectrum Disorder. Entropy, 2021, 23, 418.	2.2	4
2341	CEPS: An Open Access MATLAB Graphical User Interface (GUI) for the Analysis of Complexity and Entropy in Physiological Signals. Entropy, 2021, 23, 321.	2.2	14
2342	Discovery of Hybrid Ensemble Models Resilient to Input Resolution Deterioration. , 2021, , .		2
2344	Structure of variability in scanning movement predicts braille reading performance in children. Scientific Reports, 2021, 11, 7182.	3.3	5
2345	Betting on bitcoin: a profitable trading between directional and shielding strategies. Decisions in Economics and Finance, 0, , 1.	1.8	2
2346	Effect of exercise-heat acclimation on cardiac autonomic modulation in type 2 diabetes: a pilot study. Applied Physiology, Nutrition and Metabolism, 2021, 46, 284-287.	1.9	5
2347	Extreme events in Nagelâ€“Schreckenberg model of traffic flow on complex networks. European Physical Journal: Special Topics, 2021, 230, 3201.	2.6	3
2348	Altered Heart Rate Variability in Patients With Schizophrenia During an Autonomic Nervous Test. Frontiers in Psychiatry, 2021, 12, 626991.	2.6	7
2349	Long-term persistence, invariant time scales and on-off intermittency of fog events. Atmospheric Research, 2021, 252, 105456.	4.1	6
2350	Relationship between gait complexity and pain attention in chronic low back pain. Pain, 2022, 163, e31-e39.	4.2	4
2351	Effects of healthy aging on electrical activity of the brain during motor tasks characterized with wavelets. European Physical Journal Plus, 2021, 136, 1.	2.6	4
2352	Balance dynamics are related to age and levels of expertise. Application in young and adult tennis players. PLoS ONE, 2021, 16, e0249941.	2.5	9
2353	Bearing Fault Diagnosis Approach under Data Quality Issues. Applied Sciences (Switzerland), 2021, 11, 3289.	2.5	6
2354	Effect of a single bout of morning or afternoon exercise on glucose fluctuation in young healthy men. Physiological Reports, 2021, 9, e14784.	1.7	7
2355	Characterization of heart rate variability signal for distinction of meditative and pre-meditative states. Biomedical Signal Processing and Control, 2021, 66, 102414.	5.7	10
2357	A Comprehensive Power Spectral Density Analysis of Astronomical Time Series. II. The Swift/BAT Long Gamma-Ray Bursts. Astrophysical Journal, 2021, 911, 20.	4.5	16

#	Article	IF	Citations
2358	Enhanced multiresolution wavelet analysis of complex dynamics in nonlinear systems. Chaos, 2021, 31, 043110.	2.5	8
2359	Multifractal roots of suprapostural dexterity. Human Movement Science, 2021, 76, 102771.	1.4	16
2360	Testâ€“Retest Reliability and the Effects of Walking Speed on Stride Time Variability During Continuous, Overground Walking in Healthy Young Adults. Journal of Applied Biomechanics, 2021, 37, 102-108.	0.8	3
2361	On the design of automatic voice condition analysis systems. Part III: review of acoustic modelling strategies. Biomedical Signal Processing and Control, 2021, 66, 102049.	5.7	12
2362	SimulaciÃ³n de la dinÃ¡mica cardiaca en estado agudo. Acta Colombiana De Cuidado Intensivo, 2021, 21, 142-151.	0.2	0
2363	A novel study on perceptionâ€“cognition scenario in music using deterministic and non-deterministic approach. Physica A: Statistical Mechanics and Its Applications, 2021, 567, 125682.	2.6	8
2364	Did you know? Using entropy and fractal geometry to quantify fluctuations in physiological outputs. Acta Physiologica, 2021, 233, e13670.	3.8	7
2365	Changes in bloodâ€“brain barrier permeability characterized from electroencephalograms with a combined wavelet and fluctuation analysis. European Physical Journal Plus, 2021, 136, 1.	2.6	6
2366	Enhanced multiresolution wavelet analysis of cerebrovascular dynamics. Chaos, Solitons and Fractals, 2021, 146, 110924.	5.1	4
2367	The role of the autonomic nervous system in the patterns of heart rate fragmentation. Biomedical Signal Processing and Control, 2021, 67, 102526.	5.7	5
2368	Real-Time Estimation of Aerobic Threshold and Exercise Intensity Distribution Using Fractal Correlation Properties of Heart Rate Variability: A Single-Case Field Application in a Former Olympic Triathlete. Frontiers in Sports and Active Living, 2021, 3, 668812.	1.8	12
2369	Machine learning model on heart rate variability metrics identifies asymptomatic toddlers exposed to zika virus during pregnancy. Physiological Measurement, 2021, 42, 055008.	2.1	10
2370	Heart Rate Variability and Clinical Features as Predictors of Atrial Fibrillation Recurrence After Catheter Ablation: A Pilot Study. Frontiers in Physiology, 2021, 12, 672896.	2.8	6
2372	Prediction of echocardiographic parameters in Chagas disease using heart rate variability and machine learning. Biomedical Signal Processing and Control, 2021, 67, 102513.	5.7	8
2373	Open Source Software Tools for Sequential Analysis and Comparison of Heart Rate Variability in Large Cohort Studies. Walailak Journal of Science and Technology, 2021, 18, .	0.5	0
2374	Memory in Ion Channel Kinetics. Acta Biotheoretica, 2021, 69, 697-722.	1.5	8
2375	Entropy and Multifractal-Multiscale Indices of Heart Rate Time Series to Evaluate Intricate Cognitive-Autonomic Interactions. Entropy, 2021, 23, 663.	2.2	7
2376	Dynamics of Long-Range Temporal Correlations in Broadband EEG During Different Motor Execution and Imagery Tasks. Frontiers in Neuroscience, 2021, 15, 660032.	2.8	10

#	Article	IF	Citations
2377	Clustering financial time series to generate a new method of factor neutralization: An empirical study. International Journal of Financial Engineering, 0, , 2141005.	0.5	0
2378	Decrements in Adolescent Cardiac Complexity During Mother-Adolescent Conflicts. Applied Psychophysiology Biofeedback, 2021, 46, 259-270.	1.7	1
2379	Cardiac Autonomic Response to Active Standing in Calcific Aortic Valve Stenosis. Journal of Clinical Medicine, 2021, 10, 2004.	2.4	4
2380	The non-linear relationship between randomness and scaling properties such as fractal dimensions and Hurst exponent in distributed signals. Communications in Nonlinear Science and Numerical Simulation, 2021, 96, 105683.	3.3	5
2381	Easier Said Than Done? Task Difficulty's Influence on Temporal Alignment, Semantic Similarity, and Complexity Matching Between Gestures and Speech. Cognitive Science, 2021, 45, e12989.	1.7	6
2382	A Two-Steps-Ahead Estimator for Bubble Entropy. Entropy, 2021, 23, 761.	2.2	5
2383	Emergence of scale invariance in the dynamics of an ellipsoidal particle on a granular magnetic bath. Physica A: Statistical Mechanics and Its Applications, 2021, 572, 125903.	2.6	1
2384	Efficient feature selection for electroencephalogram-based authentication. , 2021, , .		5
2385	Dollarâ€™s Influence on Crude Oil and Gold Based on MF-DPCCA Method. Discrete Dynamics in Nature and Society, 2021, 2021, 1-10.	0.9	1
2386	The Value of Heart Rhythm Complexity in Identifying High-Risk Pulmonary Hypertension Patients. Entropy, 2021, 23, 753.	2.2	4
2387	Autonomic Nervous System Function in Anorexia Nervosa: A Systematic Review. Frontiers in Neuroscience, 2021, 15, 682208.	2.8	13
2388	Ontogenetic changes in activity, locomotion and behavioural complexity in tadpoles. Biological Journal of the Linnean Society, 2021, 134, 165-176.	1.6	6
2389	Reduced heart rate variability is associated with higher illness burden in bipolar disorder. Journal of Psychosomatic Research, 2021, 145, 110478.	2.6	19
2390	EMG Signals Can Reveal Information Sharing between Consecutive Pedal Cycles. Medicine and Science in Sports and Exercise, 2021, Publish Ahead of Print, 2436-2444.	0.4	1
2391	Heart Rate Variability in Psychology: A Review of HRV Indices and an Analysis Tutorial. Sensors, 2021, 21, 3998.	3.8	86
2392	Scaling Properties and Persistence of Long-Term Solar Activity. Atmosphere, 2021, 12, 733.	2.3	2
2393	Loaded forced-marching shifts mechanical contributions proximally and disrupts stride-to-stride joint work modulation in recruit aged women. Gait and Posture, 2021, 88, 22-27.	1.4	4
2394	Autonomic dysfunction and heart rate variability with Holter monitoring: aÂdiagnostic look at autonomic regulation. Herzschrittmachertherapie Und Elektrophysiologie, 2021, 32, 315-319.	0.8	12

#	Article	IF	Citations
2395	Local Hurst Exponent Computation of Data from Triaxial Seismometers Monitoring KAGRA. Pure and Applied Geophysics, 2021, 178, 3461.	1.9	2
2396	NREM Sleep EEG Characteristics Correlate to the Mild Cognitive Impairment in Patients with Parkinsonism. BioMed Research International, 2021, 2021, 1-10.	1.9	2
2397	Heart rate variability analysis for the assessment of immersive emotional arousal using virtual reality: Comparing real and virtual scenarios. PLoS ONE, 2021, 16, e0254098.	2.5	12
2398	Prediction of mortality among patients with chronic kidney disease: A systematic review. World Journal of Nephrology, 2021, 10, 59-75.	2.0	19
2399	Ischemic Stroke Risk Assessment by Multiscale Entropy Analysis of Heart Rate Variability in Patients with Persistent Atrial Fibrillation. Entropy, 2021, 23, 918.	2.2	1
2400	Identification of Fractal Properties in Geomagnetic Data of Southeast Asian Region during Various Solar Activity Levels. Universe, 2021, 7, 248.	2.5	7
2401	Analysing the resilience of agricultural production systems with ResiPy, the Python production resilience estimation package. SoftwareX, 2021, 15, 100738.	2.6	3
2402	Fractal characteristics-based motor dyskinesia assessment. Biomedical Signal Processing and Control, 2021, 68, 102707.	5.7	3
2403	Differences in heart rate variability and body composition in breast cancer survivors and women without cancer. Scientific Reports, 2021, 11, 14460.	3.3	6
2404	Daily Rhythm of Fractal Cardiac Dynamics Links to Weight Loss Resistance: Interaction with CLOCK 3111T/C Genetic Variant. Nutrients, 2021, 13, 2463.	4.1	2
2405	Diagnosis of rolling element bearing based on multifractal detrended fluctuation analyses and continuous hidden markov model. Journal of Mechanical Science and Technology, 2021, 35, 3313-3322.	1.5	8
2406	Understanding Heart Rate Reactions to Post-Traumatic Stress Disorder (PTSD) Among Veterans: A Naturalistic Study. Human Factors, 2022, 64, 173-187.	3.5	6
2407	Hip Sway in Patients With Hip Osteoarthritis During One-Leg Standing With a Focus on Time Series Data. Motor Control, 2021, 25, 502-518.	0.6	3
2408	Origins of 1/f-like tissue oxygenation fluctuations in the murine cortex. PLoS Biology, 2021, 19, e3001298.	5.6	15
2409	Adaptive Capacities and Complexity of Heart Rate Variability in Patients With Chronic Obstructive Pulmonary Disease Throughout Pulmonary Rehabilitation. Frontiers in Physiology, 2021, 12, 669722.	2.8	2
2410	Omega-3 effects on electrocorticographic patterns of adult Wistar rats exposed to ionizing radiation. Biochemistry and Biophysics Reports, 2021, 26, 100992.	1.3	1
2411	Correlation Properties of Heart Rate Variability during a Marathon Race in Recreational Runners: Potential Biomarker of Complex Regulation during Endurance Exercise. Journal of Sports Science and Medicine, 2021, 20, 557-563.	1.6	8
2412	Quantifying scaling exponents for neurite morphology of in vitro-cultured human iPSC-derived neurons using discrete Loewner evolution: A statisticalâˆ'physical approach to the neuropathology in Alzheimer's disease. Chaos, 2021, 31, 073140.	2.5	3

#	Article	IF	Citations
2413	Comparing estimation techniques for temporal scaling in palaeoclimate time series. Nonlinear Processes in Geophysics, 2021, 28, 311-328.	1.3	5
2414	Multi-fractal DFA analysis of masseter muscles SEMG signal in patients with TMD, pilot study. Biomedical Signal Processing and Control, 2021, 68, 102732.	5.7	4
2415	Prognostic value of heart rate variability in patients with coronary artery disease in the current treatment era. PLoS ONE, 2021, 16, e0254107.	2.5	10
2416	Visualization of RNA secondary structure with pseudoknots. International Journal of Wavelets, Multiresolution and Information Processing, 2022, 20, .	1.3	0
2417	Effects of Cardiac Resynchronization Therapy on Cardio-Respiratory Coupling. Entropy, 2021, 23, 1126.	2.2	1
2418	Asymmetric multiscale multifractal analysis (AMMA) of heart rate variability. Physiological Measurement, 2021, 42, 085003.	2.1	1
2419	Does bariatric surgery improve cardiac autonomic modulation assessed by heart rate variability? A systematic review. Surgery for Obesity and Related Diseases, 2021, 17, 1497-1509.	1.2	6
2420	Fluctuation Dynamics of Radon in Groundwater Prior to the Gansu Earthquake, China (22 July 2013:) Tj ETQq1 1 0.784314 rgBT /Over	1.9	8
2421	Breathing variabilityâ€"implications for anaesthesiology and intensive care. Critical Care, 2021, 25, 280.	5.8	22
2422	BioPyC, an Open-Source Python Toolbox for Offline Electroencephalographic and Physiological Signals Classification. Sensors, 2021, 21, 5740.	3.8	6
2423	How Fast Does the Clock of Finance Run?â€"A Time-Definition Enforcing Stationarity and Quantifying Overnight Duration. Journal of Risk and Financial Management, 2021, 14, 384.	2.3	1
2424	Multimodal Assessment of the Pulse Rate Variability Analysis Module of a Photoplethysmography-Based Telemedicine System. Sensors, 2021, 21, 5544.	3.8	9
2425	Motor Synergies Measurement Reveals the Relevant Role of Variability in Reward-Based Learning. Sensors, 2021, 21, 6448.	3.8	1
2427	Enhanced detection of abnormalities in heart rate variability and dynamics by 7â€day continuous ECG monitoring. Annals of Noninvasive Electrocardiology, 2021, , e12897.	1.1	1
2428	Brain criticality beyond avalanches: open problems and how to approach them. Journal of Physics Complexity, 2021, 2, 031003.	2.2	10
2429	Prediction of Behavioral Improvement Through Resting-State Electroencephalography and Clinical Severity in a Randomized Controlled Trial Testing Bumetanide in Autism Spectrum Disorder. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2023, 8, 251-261.	1.5	16
2430	Effects of ECG Data Length on Heart Rate Variability among Young Healthy Adults. Sensors, 2021, 21, 6286.	3.8	6
2431	Autonomic responses to facial expression tasks in children with autism spectrum disorders: Cross-section study. Research in Developmental Disabilities, 2021, 116, 104034.	2.2	3

#	Article	IF	Citations
2432	Persistent homology of fractional Gaussian noise. Physical Review E, 2021, 104, 034116.	2.1	6
2433	The use of a Detrended Cross-Correlation Analysis on returns from agricultural commodities in the subprime crisis. GEPROS: GestÃ£o Da ProduÃ§Ã£o, OperaÃ§Ãµes E Sistemas, 2021, 16, 119-137.	0.1	0
2434	The temporal pattern and the probability distribution of visual cueing can alter the structure of stride-to-stride variability. Neuroscience Letters, 2021, 763, 136193.	2.1	6
2435	Determining the interactions between postural variability structure and discomfort development using nonlinear analysis techniques during prolonged standing work. Applied Ergonomics, 2021, 96, 103489.	3.1	4
2436	Stochastic resonance in coupled star-networks with power-law heterogeneity. Physica A: Statistical Mechanics and Its Applications, 2021, 580, 126155.	2.6	11
2437	The futility of long-term predictions in bipolar disorder: mood fluctuations are the result of deterministic chaotic processes. International Journal of Bipolar Disorders, 2021, 9, 30.	2.2	4
2438	Cross-correlated fractal components of H-wave amplitude fluctuations in medial gastrocnemius and soleus muscles. Neuroscience Letters, 2021, 765, 136264.	2.1	1
2439	Can high-frequency ECG fluctuations differentiate between healthy and myocardial infarction cases?. Biomedical Engineering Advances, 2021, 2, 100011.	3.8	2
2440	Multiresolution wavelet analysis of noisy datasets with different measures for decomposition coefficients. Physica A: Statistical Mechanics and Its Applications, 2022, 585, 126406.	2.6	6
2441	Sleep Stage Classification Based on Ensemble Decision Tree Technique Using Single-Channel EEG. Lecture Notes in Networks and Systems, 2021, , 249-265.	0.7	0
2442	Using Machine Learning and Wearable Inertial Sensor Data for the Classification of Fractal Gait Patterns in Women and Men During Load Carriage. Procedia Computer Science, 2021, 185, 282-291.	2.0	6
2443	Survival Predictors of Heart Rate Variability After Myocardial Infarction With and Without Low Left Ventricular Ejection Fraction. Frontiers in Neuroscience, 2021, 15, 610955.	2.8	21
2444	Time Series Analysis of Fault Strain Accumulation Around Large Dam: The Case of Enguri Dam, Greater Caucasus. NATO Science for Peace and Security Series C: Environmental Security, 2021, , 185-204.	0.2	2
2445	Synchronization mechanism of clapping rhythms in mutual interacting individuals*. Chinese Physics B, 2021, 30, 010505.	1.4	4
2446	Possibility of robust detrended fluctuation analysis as a method for identifying fractal properties of geomagnetic time series. Journal of Physics: Conference Series, 2021, 1768, 012004.	0.4	1
2448	Biosignal Monitoring and Recording. , 2006, , 288-301.		5
2449	Fractal Methods in Self-Potential Signals Measured in Seismic Areas. , 2005, , 133-178.		4
2450	Scaling and Criticality in Large-Scale Neuronal Activity. Lecture Notes in Physics, 2003, , 324-338.	0.7	4

#	Article	IF	Citations
2451	Long-Range Dependence in Heartbeat Dynamics. Lecture Notes in Physics, 2003, , 339-372.	0.7	4
2452	Fatigue Indicators of Drowsy Drivers Based on Analysis of Physiological Signals. Lecture Notes in Computer Science, 2001, , 62-68.	1.3	15
2453	Fractals in Biology. , 2009, , 3779-3802.		4
2454	Aging as a Process of Complexity Loss. , 2006, , 641-654.		7
2455	Fractal Noise in Breathing. , 1996, , 161-173.		4
2456	Human Walking in Virtual Environments. , 2013, , .		97
2457	VR-Based Assessment and Rehabilitation of Functional Mobility. , 2013, , 333-350.		7
2458	Methodological Issues. , 2014, , 51-118.		2
2459	Fractals in Physiology and Medicine. , 2013, , 171-192.		109
2460	Nonlinear Analysis of Heart Rate Variability in Infants with Apparent Life- Threatening Events. Advances in Experimental Medicine and Biology, 2003, 510, 369-373.	1.6	5
2461	Temporal Correlation in Phrenic Neural Activity. Advances in Experimental Medicine and Biology, 1998, 450, 111-118.	1.6	5
2462	35 Heart Rate Variability. , 2010, , 1513-1674.		5
2463	Combustion Stability Analysis. Mechanical Engineering Series, 2019, , 361-459.	0.2	6
2465	Changes in Heart Rate Dynamics with Menstrual Cycles. Advances in Intelligent Systems and Computing, 2020, , 138-147.	0.6	2
2466	The Effect of Individual Coordination Ability on Cognitive-Load in Tacit Coordination Games. Lecture Notes in Information Systems and Organisation, 2020, , 244-252.	0.6	6
2467	Autonomic Nervous System Dynamics for Mood and Emotional-State Recognition. Series in Bioengineering, 2014, , .	0.6	9
2468	Discriminating Normal from â€œAbnormalâ€•Pregnancy Cases Using an Automated FHR Evaluation Method. Lecture Notes in Computer Science, 2014, , 521-531.	1.3	13
2469	Diminished Vagal and/or Increased Sympathetic Activity in Post-Traumatic Stress Disorder. , 2016, , 1277-1295.		3

#	Article	IF	Citations
2470	Diminished Vagal and/or Increased Sympathetic Activity in Post-Traumatic Stress Disorder. , 2015, , 1-15.		4
2471	Recurrence Quantification as an Analysis of Temporal Coordination with Complex Signals. Springer Proceedings in Mathematics and Statistics, 2014, , 173-186.	0.2	4
2472	Multi-complexity Ensemble Measures for Gait Time Series Analysis: Application to Diagnostics, Monitoring and Biometrics. Advances in Experimental Medicine and Biology, 2015, 823, 107-126.	1.6	9
2473	Studying the Oscillatory Components of Human Skin Microcirculation. , 2015, , 1-15.		3
2474	Generic Ensemble-Based Representation of Global Cardiovascular Dynamics for Personalized Treatment Discovery and Optimization. Lecture Notes in Computer Science, 2016, , 197-207.	1.3	7
2475	Whole-Body Coordination Skill for Dynamic Balancing on a Slackline. Lecture Notes in Computer Science, 2017, , 528-546.	1.3	6
2476	Telemedicine for Dementia-Affected Patients: The AAL-ACCESS Project Experience. Lecture Notes in Electrical Engineering, 2017, , 391-404.	0.4	2
2478	Looking for Biomarkers in Physiological Time Series. , 2018, , 111-131.		14
2479	The Analysis of Variability of Short Data Sets Based on Mahalanobis Distance Calculation and Surrogate Time Series Testing. Contributions To Statistics, 2018, , 275-287.	0.2	1
2481	Forecasting of Ventricular Tachycardia using Scaling Characteristics and Entropy of Heart Rate Time Series. , 2007, , 1001-1004.		2
2482	Scale-Free Features in the Observed Traffic Flow. , 2007, , 709-715.		3
2483	2CTG2: A new system for the antepartum analysis of fetal heart rate. , 2007, , 781-784.		12
2484	Effects of vagal blockade on the complexity of heart rate variability in rats. , 2007, , 26-29.		5
2485	Long-Range Temporal Correlations in the Spontaneous in vivo Activity of Interneuron in the Mouse Hippocampus. Lecture Notes in Computer Science, 2007, , 1339-1344.	1.3	1
2486	Nonlinear Analysis of Physiological Time Series. , 2009, , 307-333.		16
2487	Seasonality Effects on Nonlinear Properties of Hydrometeorological Records. , 2011, , 266-284.		9
2488	Benefits and Pitfalls in Analyzing Noise in Dynamical Systems â€“ On Stochastic Differential Equations and System Identification. Studies in Computational Intelligence, 2010, , 35-68.	0.9	7
2489	Introduction to Seismic Electric Signals. , 2011, , 3-115.		15

#	Article	IF	Citations
2490	Natural Time Analysis of Electrocardiograms. , 2011, , 381-435.		2
2491	Premonitory Symptom of Septic Shock in Heart Rate Variability. IFMBE Proceedings, 2011, , 552-555.	0.3	6
2493	Robust Algorithmic Detection of Cardiac Pathologies from Short Periods of RR Data. Studies in Computational Intelligence, 2013, , 137-153.	0.9	8
2495	Automatic Evaluation of FHR Recordings from CTU-UHB CTG Database. Lecture Notes in Computer Science, 2013, , 47-61.	1.3	20
2496	Universal Multi-complexity Measures for Physiological State Quantification in Intelligent Diagnostics and Monitoring Systems. Communications in Computer and Information Science, 2014, , 76-90.	0.5	3
2497	Fractal and Multifractal Approaches in Physiology. , 2002, , 218-257.		12
2498	Physiological Relevance of Scaling of Heart Phenomena. , 2002, , 258-281.		1
2499	Signal Acquisition and Preprocessing. SpringerBriefs in Bioengineering, 2015, , 17-31.	0.8	1
2502	Detrended Fluctuation Analysis: An Experiment About the Neural-Regulation of the Heart and Motor Vibration. Lecture Notes in Electrical Engineering, 2014, , 665-681.	0.4	2
2503	Emotions from Hindustani Classical Music: An EEG based study including Neural Hysteresis. Signals and Communication Technology, 2018, , 49-72.	0.5	4
2504	Musical Perception and Visual Imagery: Do Musicians visualize while Performing?. Signals and Communication Technology, 2018, , 73-102.	0.5	1
2505	Diminished heart rate variability in type 2 diabetes is exacerbated during exercise-heat stress. Acta Diabetologica, 2020, 57, 899-901.	2.5	5
2506	STATISTICAL PRECURSORS TO SPACE STORM ONSET. , 2005, , 99-112.		3
2507	Fluctuation analysis of the hourly time variability of volcano-magnetic signals recorded at Mt. Etna Volcano, Sicily (Italy). Chaos, Solitons and Fractals, 2005, 23, 1921-1929.	5.1	16
2508	A multifractal description of wind speed records. Chaos, Solitons and Fractals, 2005, 24, 165-173.	5.1	39
2509	Quantification of scaling exponent with Crossover type phenomena for different types of forcing in DC glow discharge plasma. Physica A: Statistical Mechanics and Its Applications, 2018, 490, 300-310.	2.6	6
2510	Advanced State Space Methods for Neural and Clinical Data. , 2015, , .		28
2511	Heart Rate Variability, Homeostasis, and Brain Function. Journal of Psychophysiology, 2012, 26, 178-203.	0.7	46

#	Article	IF	Citations
2512	Evaluation of monofractal and multifractal properties of interâ€beat (Râ€R) intervals in cardiac signals for differentiation between the normal and pathology classes. IET Signal Processing, 2019, 13, 798-805.	1.5	3
2513	Multiâ€fractal detrended fluctuation halfâ€spectrum analysis of HRV. Journal of Engineering, 2019, 2019, 8315-8318.	1.1	7
2514	Restless minds, wandering brains. Advances in Consciousness Research, 2012, , 121-148.	0.2	5
2515	The Prominence of Stationarity in Time Series Forecasting. Journal for Studies in Economics and Econometrics, 2014, 38, 1-16.	0.5	19
2516	Mechanisms in dynamically complex systems. , 2011, , 880-906.		15
2517	Multifractal Analysis of Hemodynamic Behavior. Anesthesiology, 2012, 117, 810-821.	2.5	21
2523	Multifractal spectrum of physiological signals: a mechanism-related approach. Proceedings of SPIE, 2017, , .	0.8	2
2524	Physiological Complexity, Aging, and the Path to Frailty. Science of Aging Knowledge Environment: SAGE KE, 2004, 2004, pe16-pe16.	0.8	200
2525	Debunking Four Long-Standing Misconceptions of Time-Series Distance Measures. , 2020, , .		27
2526	Time Series Analysis Using Fractal and Multifractal Methods. , 2019, , .		3
2527	The Analysis of How Apnea Influences the Autonomic Nervous System Using Short-Term Heart Rate Variability Indices. Journal of Healthcare Engineering, 2020, 2020, 1-8.	1.9	4
2528	Predicting Survival in Heart Failure Case and Control Subjects by Use of Fully Automated Methods for Deriving Nonlinear and Conventional Indices of Heart Rate Dynamics. Circulation, 1997, 96, 842-848.	1.6	417
2529	Heart rate variability: a new tool to predict complications in adult cardiac surgery. Journal of Geriatric Cardiology, 2017, 14, 662-668.	0.2	20
2530	Heart Rate Variability. , 2012, , 1-6.		16
2531	Transitions in effective scaling behavior of accelerometric time series across sleep and wake. Europhysics Letters, 2013, 103, 68002.	2.0	15
2532	Self-similar processes, fractional Brownian motion and statistical inference. Lecture Notes-monograph Series / Institute of Mathematical Statistics, 2004, , 98-125.	1.0	6
2533	Effects of exercise on heart rate variability by time-domain, frequency-domain and non-linear analyses in equine athletes. F1000Research, 0, 8, 147.	1.6	2
2534	Long-Range Correlation in Atomic Vibration Î¿f Chicken Lysozyme Backbone. Acta Physica Polonica A, 2009, 116, 684-686.	0.5	2

#	Article	IF	Citations
2535	Investigation of noises in the EPN weekly time series. Acta Geodynamica Et Geomaterialia, 2015, , 117-126.	0.5	4
2536	Error Correction and the Structure of Inter-Trial Fluctuations in a Redundant Movement Task. PLoS Computational Biology, 2016, 12, e1005118.	3.2	31
2537	Long-Range Correlation in Synchronization and Syncopation Tapping: A Linear Phase Correction Model. PLoS ONE, 2009, 4, e7822.	2.5	26
2538	Clustering Heart Rate Dynamics Is Associated with Î²-Adrenergic Receptor Polymorphisms: Analysis by Information-Based Similarity Index. PLoS ONE, 2011, 6, e19232.	2.5	18
2539	Unexpected Course of Nonlinear Cardiac Interbeat Interval Dynamics during Childhood and Adolescence. PLoS ONE, 2011, 6, e19400.	2.5	34
2540	Scaling Behavior of Human Locomotor Activity Amplitude: Association with Bipolar Disorder. PLoS ONE, 2011, 6, e20650.	2.5	44
2541	Long-Range Temporal Correlations in the EEG Bursts of Human Preterm Babies. PLoS ONE, 2012, 7, e31543.	2.5	26
2542	Interactive Rhythmic Auditory Stimulation Reinstates Natural 1/f Timing in Gait of Parkinson's Patients. PLoS ONE, 2012, 7, e32600.	2.5	154
2543	The Complexity of Standing Postural Control in Older Adults: A Modified Detrended Fluctuation Analysis Based upon the Empirical Mode Decomposition Algorithm. PLoS ONE, 2013, 8, e62585.	2.5	26
2544	The Soluble Guanylate Cyclase Activator BAY 58-2667 Protects against Morbidity and Mortality in Endotoxic Shock by Recoupling Organ Systems. PLoS ONE, 2013, 8, e72155.	2.5	15
2545	A Novel Approach to Predict Sudden Cardiac Death (SCD) Using Nonlinear and Time-Frequency Analyses from HRV Signals. PLoS ONE, 2014, 9, e81896.	2.5	106
2546	Dynamic Structure of Joint-Action Stimulus-Response Activity. PLoS ONE, 2014, 9, e89032.	2.5	14
2547	Morning Surge of Ventricular Arrhythmias in a New Arrhythmogenic Canine Model of Chronic Heart Failure Is Associated with Attenuation of Time-Of-Day Dependence of Heart Rate and Autonomic Adaptation, and Reduced Cardiac Chaos. PLoS ONE, 2014, 9, e105379.	2.5	6
2548	Scale-Free Fluctuations in Behavioral Performance: Delineating Changes in Spontaneous Behavior of Humans with Induced Sleep Deficiency. PLoS ONE, 2014, 9, e107542.	2.5	14
2549	Wistar Rats Resistant to the Hypertensive Effects of Ouabain Exhibit Enhanced Cardiac Vagal Activity and Elevated Plasma Levels of Calcitonin Gene-Related Peptide. PLoS ONE, 2014, 9, e108909.	2.5	12
2550	Relationship between Neural Rhythm Generation Disorders and Physical Disabilities in Parkinsonâ€™s Disease Patientsâ€™ Walking. PLoS ONE, 2014, 9, e112952.	2.5	22
2551	Correlated Variability in the Breathing Pattern and End-Expiratory Lung Volumes in Conscious Humans. PLoS ONE, 2015, 10, e0116317.	2.5	17
2552	Evaluation of a Decision Support System for Obstructive Sleep Apnea with Nonlinear Analysis of Respiratory Signals. PLoS ONE, 2016, 11, e0150163.	2.5	18

#	Article	IF	Citations
2553	Fractional Dynamics of Network Growth Constrained by Aging Node Interactions. PLoS ONE, 2016, 11, e0154983.	2.5	23
2554	Identifying the perceptive users for online social systems. PLoS ONE, 2017, 12, e0178118.	2.5	3
2555	Can Tai Chi training impact fractal stride time dynamics, an index of gait health, in older adults? Cross-sectional and randomized trial studies. PLoS ONE, 2017, 12, e0186212.	2.5	20
2556	Measures of cardiovascular autonomic activity in insomnia disorder: A systematic review. PLoS ONE, 2017, 12, e0186716.	2.5	34
2557	Exploration of neural correlates of movement intention based on characterisation of temporal dependencies in electroencephalography. PLoS ONE, 2018, 13, e0193722.	2.5	12
2558	Evidence of embodied social competence during conversation in high functioning children with autism spectrum disorder. PLoS ONE, 2018, 13, e0193906.	2.5	40
2559	Quantitative detection of sleep apnea with wearable watch device. PLoS ONE, 2020, 15, e0237279.	2.5	28
2560	Analysis of Heart Rate Variability by Applying Nonlinear Methods with Different Approaches for Graphical Representation of Results. International Journal of Advanced Computer Science and Applications, 2015, 6, .	0.7	7
2561	Risk Assessment of Diabetes Mellitus by Chaotic Globals to Heart Rate Variability via Six Power Spectra. Romanian Journal of Diabetes Nutrition and Metabolic Diseases, 2017, 24, 227-236.	0.3	7
2562	Emotion Classification through Nonlinear EEG Analysis Using Machine Learning Methods. International Clinical Neuroscience Journal, 2018, 5, 135-149.	0.1	43
2563	Volatility of fractal and multifractal time series. Israel Journal of Earth Sciences, 2007, 56, 47-56.	0.3	12
2564	Fluctuation in pupil size and spontaneous blinks reflect story transportation. Journal of Eye Movement Research, 2020, 13, .	0.8	4
2565	Asymmetric detrended fluctuation analysis reveals asymmetry in the RR intervals time series. Journal of Applied Mathematics and Computational Mechanics, 2016, 15, 99-106.	0.7	6
2566	Informational and Statistical Analysis of Heart Rate Variability in the Assessment of the Human Vegetative Nervous System Functional State. Sovremennye Tehnologii V Medicine, 2015, 7, 67-72.	1.1	3
2567	Mechanisms involved in brain dysfunction in mechanically ventilated critically ill patients: implications and therapeutics. Annals of Translational Medicine, 2018, 6, 30-30.	1.7	26
2568	Multifractal manifold for rotating machinery fault diagnosis based on detrended fluctuation analysis. Journal of Vibroengineering, 2016, 18, 5153-5173.	1.0	8
2569	Toward a Taxonomy for Analyzing the Heart Rate as a Physiological Indicator of Posttraumatic Stress Disorder: Systematic Review and Development of a Framework. JMIR Mental Health, 2020, 7, e16654.	3.3	9
2570	Use of Virtual Reality to Assess Dynamic Posturography and Sensory Organization: Instrument Validation Study. JMIR Serious Games, 2020, 8, e19580.	3.1	5

#	Article	IF	Citations
2571	Robust Estimation of the Scaling Exponent in Detrended Fluctuation Analysis of Beat Rate Variability. , 0, , .		1
2572	Detrended Fluctuation Analysis of Heart and Respiratory Rhythm in Atrial Fibrillation. , 0, , .		2
2574	The Fractal Primate:. Primate Research, 2014, 30, 95-119.	0.0	13
2575	Corticosterone administration leads to a transient alteration of foraging behaviour and complexity in a diving seabird. Marine Ecology - Progress Series, 2014, 496, 249-262.	1.9	22
2576	Effects of the cold pressor test on cardiac autonomic control in normal subjects. Physiological Research, 2009, 58, 83-91.	0.9	113
2578	Why Brain Criticality Is Clinically Relevant: A Scoping Review. Frontiers in Neural Circuits, 2020, 14, 54.	2.8	95
2579	Different Head-Sway Responses to Optic Flow in Sitting and Standing With a Head-Mounted Display. Frontiers in Psychology, 2020, 11, 577305.	2.1	5
2580	Cardio-Diagnostic Assisting Computer System. Diagnostics, 2020, 10, 322.	2.6	4
2581	Multifractal Detrended Fluctuation Analysis (MF-DFA) of Stock Market Indexes. Empirical Evidence from Seven Central and Eastern European Markets. Sustainability, 2020, 12, 535.	3.2	66
2582	Classification of Epileptic EEG Based on Detrended Fluctuation Analysis and Support Vector Machine. Sheng Wu Wu Li Hsueh Bao, 2011, 27, 175-182.	0.1	5
2583	A Comprehensive Power Spectral Density Analysis of Astronomical Time Series. I. The Fermi-LAT Gamma-Ray Light Curves of Selected Blazars. Astrophysical Journal, Supplement Series, 2020, 250, 1.	7.7	30
2584	Multi-layer Attribute Selection and Classification Algorithm for the Diagnosis of Cardiac Autonomic Neuropathy Based on HRV Attributes. AIMS Medical Science, 2015, 2, 396-409.	0.4	10
2585	Optimal Variability and Complexity. Advances in Business Strategy and Competitive Advantage Book Series, 2013, , 328-351.	0.3	3
2586	The Relationship between Anthropometric Variables and Features of Electromyography Signal for Humanâ€“Computer Interface. Advances in Medical Technologies and Clinical Practice Book Series, 0, , 321-353.	0.3	4
2587	Chaos-based analysis of heart rate variability time series in obstructive sleep apnea subjects. Journal of Medical Signals and Sensors, 2020, 10, 53.	1.0	5
2588	Force variability in the short- and long-term type 2 diabetes mellitus. Journal of Medical Signals and Sensors, 2019, 9, 50.	1.0	7
2589	Nonlinear analysis of electroencephalogram signals while listening to the holy Quran. Journal of Medical Signals and Sensors, 2019, 9, 100.	1.0	9
2590	Complexity and Irregularity in the Brain Oscillations of Depressive Patients: A Systematic Review. Neuropsychiatry, 2017, 07, .	0.4	11

#	Article	IF	Citations
2591	A Sleep Scoring System Using EEG Combined Spectral and Detrended Fluctuation Analysis Features. Journal of Biomedical Science and Engineering, 2014, 07, 584-592.	0.4	3
2592	Linear and Nonlinear Parametric Models in Heart Rate Variability Analysis. , 2017, , 87-116.		1
2595	Title is missing!. Journal of Medical and Biological Engineering, 2010, 30, 277.	1.8	24
2596	Multiscaled Complexity Analysis of EEG Epileptic Seizure Using Entropy-Based Techniques. Archives of Neuroscience, 2018, 5, .	0.3	23
2597	Globally chaotic analysis of Heart Rate Variability during acute auditory stimulus by heavy metal music. Medical Express, 2015, 2, .	0.2	3
2598	RISK APPRAISAL BY NOVEL CHAOTIC GLOBALS TO HRV IN SUBJECTS WITH MALNUTRITION. Journal of Human Growth and Development, 2014, 24, 243.	0.6	11
2599	Comparison of applications of different filter methods for de-noising detrended fluctuation analysis. Wuli Xuebao/Acta Physica Sinica, 2011, 60, 029203.	0.5	9
2600	Performance evaluation of Chinese air temperature simulated by Beijing Climate Center Climate System Model on the basis of the long-range correlation. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 209201.	0.5	10
2601	Performance evaluation of the simulated daily average temperature series in four seasons in China by Beijing Climate Center climate system model. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 049201.	0.5	7
2602	Multi-scale cross-correlation characteristics of void fraction wave propagation for gas-liquid two-phase flows in small diameter pipe. Wuli Xuebao/Acta Physica Sinica, 2016, 65, 010501.	0.5	4
2603	Nonlinear temperature effects on multifractal complexity of metabolic rate of mice. PeerJ, 2016, 4, e2607.	2.0	2
2604	Singularity-Exponent-Domain Image Feature Transform. IEEE Transactions on Image Processing, 2021, 30, 8510-8525.	9.8	6
2605	The effect of age on the heart rate variability of healthy subjects. PLoS ONE, 2021, 16, e0255894.	2.5	36
2606	Broadband Dynamics Rather than Frequency-Specific Rhythms Underlie Prediction Error in the Primate Auditory Cortex. Journal of Neuroscience, 2021, 41, 9374-9391.	3.6	12
2608	pyActigraphy: Open-source python package for actigraphy data visualization and analysis. PLoS Computational Biology, 2021, 17, e1009514.	3.2	25
2609	Increased sympathetic tone is associated with illness burden in bipolar disorder. Journal of Affective Disorders, 2022, 297, 471-476.	4.1	4
2610	Heart rate fragmentation, a novel approach in heart rate variability analysis, is altered in rats 4 and 12Âweeks after myocardial infarction. Medical and Biological Engineering and Computing, 2021, 59, 2373-2382.	2.8	4
2611	Longitudinal study on the effect of surgical weight loss on beat-to-beat blood pressure variability in patients undergoing bariatric surgery: a study protocol. BMJ Open, 2021, 11, e050957.	1.9	0

#	Article	IF	Citations
2612	Methodology for the prediction of paroxysmal atrial fibrillation based on heart rate variability feature analysis. Heliyon, 2021, 7, e08244.	3.2	9
2613	Cell-to-cell mathematical modeling of arrhythmia phenomena in the heart. Mathematics and Computers in Simulation, 2022, 193, 153-172.	4.4	1
2614	Multivariate patterns and longâ€range temporal correlations of alpha oscillations are associated with flexible manipulation of visual working memory representations. European Journal of Neuroscience, 2021, 54, 7260-7273.	2.6	1
2615	Nonlinear Dynamics in the Binary DNA/RNA Coding Problem. , 2001, , 185-193.		1
2616	Analysis of Scaling Exponents of Waken and Sleeping Stage in EEG. Lecture Notes in Computer Science, 2001, , 450-456.	1.3	1
2617	Modelling the Growth Statistics of Economic Organizations. , 2002, , 313-320.		0
2618	Cardiovascular Autonomic Dysregulation. , 2002, , 357-396.		0
2619	Cardiovascular Autonomic Dysregulation. , 2002, , 378-417.		1
2620	Social Networks: From Sexual Networks to Threatened Networks. Lecture Notes in Physics, 2003, , 167-174.	0.7	0
2621	The Breakdown of Fractal Heart Rate Dynamics Predicts Prolonged Postoperative Myocardial Ischemia. Anesthesia and Analgesia, 2004, , 1239-1244.	2.2	32
2622	Towards The Estimation Of The Fractal Dimension Of Heart Rate Variability Data. Internet Journal of Cardiovascular Research, 2005, 2, .	0.0	4
2623	Fractal Modeling of Human Psychomotor Skills Acquisition Process. Lecture Notes in Computer Science, 2007, , 474-482.	1.3	0
2624	A Study on Stride-to-stride Variability by Treadmill Walking. Korean Journal of Sport Biomechanics, 2007, 17, 1-8.	0.1	4
2625	Amelioration of symptoms in neurological disorders by noisy vestibular stimulation. Equilibrium Research, 2008, 67, 58-64.	0.1	2
2626	Wavelet-analysis of multimode dynamics in living systems. , 2008, , .		0
2627	Effects of Walking Speeds and Cognitive Task on Gait Variability. Korean Journal of Sport Biomechanics, 2008, 18, 49-58.	0.1	4
2628	Risk Stratification in Ischemic Heart Failure Patients with Linear and Nonlinear Methods of Heart Rate Variability Analysis. IFMBE Proceedings, 2009, , 1-4.	0.3	0
2629	Correlations in Complex Systems. , 2009, , 1615-1634.		1

#	Article	IF	Citations
2631	Screening of heart diseases with multivariate short-term heart rate variability analysis. IFMBE Proceedings, 2009, , 285-288.	0.3	0
2632	The Fetal Heart Rate Variability due to vibro-acustic stimulation: a complexity analysis. IFMBE Proceedings, 2009, , 1353-1356.	0.3	1
2633	Scaling Exponent for the Healthy and Diseased Heartbeat. Lecture Notes in Electrical Engineering, 2009, , 1-14.	0.4	0
2634	Packet Flow and its Temporal Properties in the Internet. , 2009, , 745-750.		0
2635	Dynamics of Long-Term Activities in Single Neuronal Cell. Seibutsu Butsuri, 2009, 49, 304-305.	0.1	0
2636	Autonomic heart rate control by multifractal tools. IFMBE Proceedings, 2009, , 1846-1849.	0.3	0
2638	Complexity of Boolean Dynamics in Simple Models of Signaling Networks and in Real Genetic Networks. World Scientific Lecture Notes in Complex Systems, 2009, , 79-101.	0.1	0
2639	Temporal Structure of Volatility Fluctuations. , 2010, , 65-77.		0
2640	MODELING COMPLEXITY OF PHYSIOLOGICAL TIME SERIES IN-SILICO. , 2010, , .		0
2642	Automatic Classification of Intrapartal Fetal Heart-Rate Recordings â€“ Can It Compete with Experts?. Lecture Notes in Computer Science, 2010, , 57-66.	1.3	1
2643	Estimation on the Depth of Anesthesia using Linear and Nonlinear Analysis of HRV. Journal of the Korean Institute of Electrical and Electronic Material Engineers, 2010, 23, 76-85.	0.0	0
2644	MATLAB SOFTWARE FOR DETRENDED FLUCTUATION ANALYSIS OF HEART RATE VARIABILITY. , 2010, , .		1
2645	Open Source Software Systems. , 2010, , 439-459.		0
2647	Detrended Fluctuation Analysis of EEG on a Depth of Anestheisa. Journal of the Korea Academia-Industrial Cooperation Society, 2010, 11, 2491-2496.	0.1	1
2648	Autonomic Dysfunction and Risk Stratification Assessed from Heart Rate Pattern. The Open Neurology Journal, 2010, 4, 39-49.	0.4	21
2649	Open Source Software Systems. International Journal of Open Source Software and Processes, 2010, 2, 28-47.	0.6	0
2650	Unanswered Questions. , 2010, , .		0
2651	Food Intake and Heart Rate Variability: Toward a Momentary Biopsychosocial Understanding of Eating Behavior. , 2011, , 845-863.		0

#	Article	IF	Citations
2653	Multi-Objective Physiological Indicators Based on Complementary Complexity Measures: Application to Early Diagnostics and Prediction of Acute Events. , 2011, , 95-105.		1
2654	Septic Shock Prediction by Real Time Monitoring of Heart Rate Variability. IFMBE Proceedings, 2011, , 195-198.	0.3	0
2655	Optimum parameters setting in symbolic dynamics of heart rate variability analysis. Wuli Xuebao/Acta Physica Sinica, 2011, 60, 020509.	0.5	7
2656	Diagnostics of Complex and Rare Abnormalities Using Ensemble Decomposition Learning. , 2011, , 19-26.		0
2657	Low Scaling Exponent during Arrhythmia: Detrended Fluctuation Analysis is a Beneficial Biomedical Computation Tool. , 0, , .		0
2659	Stride Time Variability on the Overground & Treadmill Walking in the healthy adults. Korean Journal of Sport Science, 2011, 22, 1701-1707.	0.2	0
2661	Detrended fluctuation analysis of significant wave height time series. , 2011, , .		1
2662	Scale Invariance in Biology. , 2012, , 361-384.		0
2663	Heart Rate Variability. , 2012, , 97-258.		0
2664	A Unified Approach of Catastrophic Events. , 2011, , 169-195.		0
2665	Time Correlation Laws Inferred from Climatic Records: Long-Range Persistence and Alternative Paradigms. , 0, , .		1
2666	Fractals in Biology. , 2012, , 488-511.		1
2668	Double Crossover Points in the DFA of Heartbeats in Patients with Sleep Apnea. International Journal of Clinical Medicine, 2012, 03, 688-692.	0.2	0
2669	Some Complexity Studies of Electroseismic Signals from Mexican Subduction Zone. , 0, , .		0
2671	Heart Rate Variability Analysis in Ischemic Cardiomyopathy and Aortic Stenosis Patients. , 2012, , 325-354.		0
2672	Heart Rate Variability in the Intensive Care Unit. , 2012, , 203-220.		0
2674	Complexity in Movement Disorders: A Systems Approach to Intervention. , 2013, , 423-443.		0
2675	Fractal-fluctuation analysis of heart rate nonlinear components to parameterize the functional condition. I P Pavlov Russian Medical Biological Herald, 2012, 20, 96.	0.5	1

#	Article	IF	Citations
2676	Detecting Congestive Heart Rate Variability Failure Using PointcarÃ© Trend Analysis Plot. International Journal of Bioscience, Biochemistry, Bioinformatics (IJBBB), 2013, , 566-569.	0.2	0
2677	Seizure Detection in Clinical EEG Based on Multi-feature Integration and SVM. Lecture Notes in Computer Science, 2013, , 418-426.	1.3	1
2678	Analysis of Heart Rate Variability. , 2013, , 51-77.		0
2681	Analysis of Electroencephalogram Signals in Different Sleep Stages using Detrended Fluctuation Analysis. International Journal of Image Graphics and Signal Processing, 2013, 5, 49-55.	1.2	0
2682	Advanced Signal Processing and Modeling for ANS Data. Series in Bioengineering, 2014, , 45-82.	0.6	0
2683	Effect of Wireless Network Radiation on Heart Rate Variability. International Journal of Information and Electronics Engineering, 2014, 4, .	0.2	1
2684	Regression I. Atmospheric and Oceanographic Sciences Library, 2014, , 107-167.	0.1	0
2685	Application of heart rate variability analysis to pain detection for newborns. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 208704.	0.5	2
2688	Persistence Models. Atmospheric and Oceanographic Sciences Library, 2014, , 31-60.	0.1	0
2689	Investigating the long memory property of the Hungarian market pig prices by using detrended fluctuation analys. Journal of Agricultural Informatics, 2013, 4, .	0.3	2
2691	ãƒ'ãƒˆiPSç´°èƒžç"±æ¥ãƒ‹ãƒ¥ãƒ¼ãƒ³ã•ãƒ©ãƒƒãƒˆæµ·é¦¬ç¥žçµŒç´°èƒžã®è‡ªç™ºæ´»å‹•ã«ã‚ˆã‚‹DFAè§£æžã•	Journal of Life Support E	
2692	Conditional fluctuation characteristics of heart rate variability. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 040504.	0.5	0
2693	Diligence in determining the appropriate form of stationarity. Acta Commercii, 2014, 14, .	0.5	1
2695	Detrended Fluctuation Analysis Based on the Affective ECG. Journal of Fiber Bioengineering and Informatics, 2014, 7, 91-102.	0.2	1
2696	Could Non-Linear Heart Rate Variability Analysis of Short RR Intervals Series Give Clinically Valuable Information in Heart Disease?. Journal of Clinical and Experimental Research in Cardiology, 0, , .	0.1	1
2697	Detrended Fluctuation Analysis of Acupuncture based on Neural Electrical Signals. , 0, , .		0
2698	Development of a Remote Monitoring System for Respiratory Analysis. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 193-202.	0.3	2
2699	Analysis for the Fluctuation of the Photoplethysmographic Waveform derived by Temperature Stress of Measuring Position. Transactions of the Korean Institute of Electrical Engineers, 2015, 64, 304-309.	0.1	0

#	Article	IF	Citations
2700	Severe Cardiac Autonomic Derangement and Altered Ventricular Repolarization Pave the Way to Postoperative Atrial Fibrillation. Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery, 2015, 10, 398-405.	0.9	1
2702	Nueva metodologÃa de evaluaciÃ³n del Holter basada en los sistemas dinÃ¡micos y la geometrÃa fractal: confirmaciÃ³n de su aplicabilidad a nivel clÃnico. Revista De La Universidad Industrial De Santander Salud, 2016, 48, 27-36.	0.2	1
2703	A Survey of Data Mining Methods for Automated Diagnosis of Cardiac Autonomic Neuropathy Progression. AIMS Medical Science, 2016, 3, 217-233.	0.4	2
2704	Assessment of Heart Rate Complexity Recovery from Maximal Exercise Using Recurrence Quantification Analysis. Springer Proceedings in Physics, 2016, , 157-168.	0.2	1
2705	Time, Frequency & Complexity Analysis for Recognizing Panic States from Physiologic Time-Series. , 2016, , .		9
2707	Application of Minute Electrical Noise to Muscle Proprioception Modulates Excitability of Alpha Motor Neuron Group. Advanced Biomedical Engineering, 2017, 6, 37-41.	0.6	0
2708	Chile2015: LÃ©vy Flight and Long-Range Correlation Analysis of Earthquake Magnitudes in Chile. , 2017, , 113-122.		0
2709	Studying the Oscillatory Components of Human Skin Microcirculation. , 2017, , 569-582.		1
2710	The study on the parallel processing based time series correlation analysis of RBC membrane flickering in quantitative phase imaging. , 2017, , .		0
2711	Nonlinear Effects of Winter Swimming and Sauna Recreational Activities on the Heart Rate Variability. , 0, , .		0
2712	Tanpura Drone and Brain Response. Signals and Communication Technology, 2018, , 103-116.	0.5	0
2713	Heart Rate Variability as a Useful Parameter in Assessment of Cardiac Rehabilitation Outcome. , 2017, , 297-310.		0
2714	Introduction to ECG Time Series Variability Analysis: A Simple Overview. , 2017, , 1-12.		0
2715	Historical Development of HRV Analysis. , 2017, , 13-74.		0
2716	Comparative Analysis of Estimation Methods of the Physiological Signals Variability. Kibernetika I VyÄislitelÊ¹naÃ¢ Tehnika, 2017, 2017, 5-28.	0.3	2
2717	Monitoring Patients during Neurorehabilitation Following Central or Peripheral Nervous System Injury: Dynamic Difficulty Adaptation. , 2017, , 281-296.		0
2718	Short- and Long-Range Correlations in Beat Rate Variability of Human Pluripotent-Stem-Cell-Derived Cardiomyocytes. , 0, , .		1
2719	Applying Heart Rate Variability in Clinical Practice Following Acute Myocardial Infarction. , 2017, , 389-402.		0

#	Article	IF	Citations
2720	Applying Heart Rate Variability in Clinical Practice Following Acute Myocardial Infarction. , 2017, , 389-402.		0
2721	Heart Rate Dynamics with the Applications into a Quantitative Evaluation of Improvements on Cardiac Stress Endurance after High Intensity Interval Training in Healthy Men. , 0, , .		0
2722	Analysis and Preprocessing of HRVâ€"Kubios HRV Software. , 2017, , 159-186.		0
2723	Linear and Nonlinear Parametric Models in Heart Rate Variability Analysis. , 2017, , 87-116.		0
2724	Visualization of Short-Term Heart Period Variability with Network Tools as a Method for Quantifying Autonomic Drive. , 2017, , 141-158.		0
2725	Gender Differences in Elite Athletes Heart Rate Dynamics Following a Supra Maximal Complex Effort. MOJ Sports Medicine, 2017, 1, .	0.1	0
2726	The Relationship Between Anthropometric Variables and Features of Electromyography Signal for Humanâ€"Computer Interface. , 2018, , 2234-2268.		0
2727	A Novel Method for Detecting the Degree of Fatigue Using Mobile Camera. Communications in Computer and Information Science, 2018, , 524-530.	0.5	1
2728	Color Glasses during Morning Drive for Commuting-Effects on Autonomic Functions, Alertness, and Nocturnal Sleep. International Journal of Environmental Science and Development, 2018, 9, 90-94.	0.6	0
2729	Characterization of vascular dynamics based on experimental recordings with extreme data loss. , 2018, , .		0
2730	Detection of EEG-patterns associated with real and imaginary movements using detrended fluctuation analysis. , 2018, , .		0
2731	As method for understanding the general state of human health. MOJ Gerontology & Geriatrics, 2018, 3, .	0.1	0
2732	Analysis of cerebral vessels dynamics using experimental data with missed segments. , 2018, , .		1
2735	Scaling Features Of Chaotic Dynamics In Interacting Systems Characterized From Noisy Data Sets. , 2018, , .		0
2737	The Heart Rate Variability Multifractality Spectrum and not the Power Spectrum is Altered in Paraplegic Individuals With Low-Level Lesion. , 0, , .		0
2738	Constraints on Joint Degrees of Freedom Affect Human Postural Dynamics: A Pilot Study. Lecture Notes in Computer Science, 2019, , 447-460.	1.3	1
2739	Con tierra de por medio: patrimonio, polÃ±tica y exilio de los GuÌˆell- Comillas en la EspaÃ±a de entreguerras (1918-1945). Hispania - Revista Espanola De Historia, 2019, 78, 787.	0.1	0
2741	Recognizing human movements by processing EEG-signals using multiresolution analysis. , 2019, , .		0

#	Article	IF	Citations
2742	Separation between real and imaginary movements from multichannel EEG signals. , 2019, , .		0
2743	Diagnostic of gastric pre-cancer with complexity analysis. , 2019, , .		0
2748	Alternative Indexes. Studies in Systems, Decision and Control, 2020, , 95-117.	1.0	0
2749	Complexity of Cardiac Autonomic Modulation in Diabetes Mellitus: A New Technique to Perceive Autonomic Dysfunction. Romanian Journal of Diabetes Nutrition and Metabolic Diseases, 2019, 26, 279-291.	0.3	1
2751	Analysis of Cardiorespiratory Variations During Sleep in Shift Workers by Univariate and Multivariate Detrended Fluctuation Analysis. IFMBE Proceedings, 2020, , 164-171.	0.3	0
2753	Control Performance Assessment with Fractional Lower Order Moments. , 2020, , .		2
2754	Deterministic chaos and forecasting in Amazonâ€™s share prices. Equilibrium Quarterly Journal of Economics and Economic Policy, 2020, 15, 253-273.	3.5	0
2755	Quantifying regularity of the Internet Interdomain Routing based on Border Gateway Protocol (BGP) data bases. , 2020, , .		0
2756	Nonlinear Dynamics Methods for Analysis of ECG Signals. , 2020, , .		1
2757	The efficiency of feedback evaluation of the posture control system for tailor-made vestibular rehabilitation. Equilibrium Research, 2020, 79, 182-188.	0.1	0
2758	Chaotic global analysis of heart rate variability following power spectral adjustments during exposure to traffic noise in healthy adult women. Russian Journal of Cardiology, 2020, 25, 3739.	1.4	2
2759	Zamana BaÄŸlÄ± DoÄŸal UÃ§laÅŸma Ã–lÃ§Ã¼mleri ve EÄŸilimden ArÄ±ndÄ±rÄ±lmÄ±ÅŸ Dalgalanma Analizi(EADA): Ã°zmir-Urla Ã–rn... Deu Muhendislik Fakultesi Fen Ve Muhendislik, 2020, 22, 781-792.	0.2	0
2760	Scatter Comparison of Heart Rate Variability Parameters. Advances in Intelligent Systems and Computing, 2022, , 110-117.	0.6	0
2761	Causality analysis in process control based on denoising and periodicity-removing CCM. Journal of Intelligent Manufacturing and Special Equipment, 2020, 1, 25-41.	0.8	4
2762	Multiscale based nonlinear dynamics analysis of heart rate variability signals. PLoS ONE, 2020, 15, e0243441.	2.5	1
2763	TEMPORAL AND FRACTAL BEHAVIOR OF THE CENTER OF PRESSURE IN PARKINSONIAN AND HEALTHY ELDERLY COHORTS DURING QUIET STANDING. Journal of Mechanics in Medicine and Biology, 2020, 20, 2040036.	0.7	0
2764	Online Tool for Dynamical Heart Rate Variability Analysis. , 0, , .		0
2765	Classification of the mechanism of toxicity as applied to human cell line ECV304. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 933-944.	1.6	0

#	Article	IF	Citations
2766	Neuromuscular response to a single session of whole-body vibration in children with cerebral palsy: A pilot study. Clinical Biomechanics, 2020, 80, 105170.	1.2	1
2767	Detection of oriented fractal scaling components in anisotropic two-dimensional trajectories. Scientific Reports, 2020, 10, 21892.	3.3	4
2768	Physiologic systems dynamics, coupling and network interactions across the sleep-wake cycle. , 2022, , 59-100.		1
2769	Elongated Self-propelled Particles Roaming a Closed Arena Present Financial Stylized Facts. Springer Proceedings in Physics, 2020, , 421-427.	0.2	0
2770	Control Performance Assessment of the Disturbance with Fractional Order Dynamics. , 2020, , 255-264.		3
2771	å·§ã¿ã³éŸ³æ¥½å®¶ã®æ¼”å¥ã«ã¿ã‚‰ã‚Œã‚‹æ™‚é–“ã®ã‚†ã‚‰ãŽã‚‚ã¯ã‚™ãƒ«ãƒ¼ã‚¦ã‚™. Journal of the Society of Biomechanisms,	0.0	0
2774	Applications of Heart Rate Variability in Sleep Apnea. , 2020, , 197-213.		0
2775	Augmented: Academic Performance Prediction Based on Digital Campus. Advances in Analytics for Learning and Teaching, 2020, , 193-207.	0.7	0
2776	The Quantitative â€œUniversalâ€•Label and the Universal Distribution Function for Relative Fluctuations. Qualitative Description of Trendless Random Functions. , 2020, , 141-206.		0
2777	Time Series Analysis of Ether Cryptocurrency Prices: Efficiency, Predictability, and Arbitrage on Exchange Rates. , 2020, , 183-196.		3
2778	Towards Prediction of Heart Arrhythmia Onset Using Machine Learning. Lecture Notes in Computer Science, 2020, , 376-389.	1.3	1
2779	The Statistics of Fractional Moments and its Application for Quantitative Reading of Real Data. , 2020, , 87-139.		0
2780	Influence of the hydration on autonomic modulation and cardiorespiratory parameters of coronary heart disease patients submitted to a cardiovascular rehabilitation session: crossover clinical trial protocol. Motriz Revista De Educacao Fisica, 2020, 26, .	0.2	1
2783	Establishing Task-Relevant MVC Protocols for Modelling Sustained Isometric Force Variability: A Manual Control Study. Journal of Functional Morphology and Kinesiology, 2021, 6, 94.	2.4	0
2784	Is gold a hedge or safe haven against oil and currency market movements? A revisit using multifractal approach. Annals of Operations Research, 2022, 313, 367-400.	4.1	16
2786	A Novel Method to Stimulate Lymphatic Clearance of Beta-Amyloid from Mouse Brain Using Noninvasive Music-Induced Opening of the Bloodâ€"Brain Barrier with EEG Markers. Applied Sciences (Switzerland), 2021, 11, 10287.	2.5	3
2788	Spectral Structure and Nonlinear Dynamics Properties of Long-Term Interstitial Fluid Glucose. International Journal of Bioscience, Biochemistry, Bioinformatics (IJBBB), 2020, 10, 137-143.	0.2	0
2791	Statistical physics of human heart rate in health and disease. Understanding Complex Systems, 2009, , 139-154.	0.6	1

#	Article	IF	Citations
2792	The Computation of Atrial Fibrillation Chaos Characteristics Based on Wavelet Analysis. , 2007, , 803-809.		0
2793	The Chaos Model Analysis Based on Time-Varying Fractal Dimension. Lecture Notes in Computer Science, 2007, , 364-369.	1.3	0
2795	Data preparation step for automated diagnosis based on HRV analysis and machine learning. , 2016, , .		0
2796	Use of the Fractal Analysis of Non-stationary Time Series in Mobile Foreign Exchange Trading for M-Learning. Advances in Intelligent Systems and Computing, 2021, , 950-961.	0.6	2
2797	Heart rate variability classification using deep learning with dimensional reduction. , 2020, , .		0
2798	Multiscale detrended cross-correlation of EEG and RR intervals during focal epilepsy. , 2020, , .		1
2799	Non-linear heart rate variability and risk stratification in cardiovascular disease. Indian Pacing and Electrophysiology Journal, 2005, 5, 210-20.	0.6	52
2802	Mortality Prediction in ICUs Using A Novel Time-Slicing Cox Regression Method. AMIA ... Annual Symposium proceedings, 2015, 2015, 1289-95.	0.2	5
2803	Role of Stress in Cardiac Arrhythmias. Journal of Atrial Fibrillation, 2013, 5, 834.	0.5	3
2804	Frequency Variation of Ventricular Fibrillation May Help Predict Successful Defibrillation in a Rat Model of Cardiac Arrest. Journal of Acute Medicine, 2019, 9, 49-58.	0.2	0
2805	Temporal dynamics of cortical activity and postural control in response to the first levodopa dose of the day in people with Parkinsonâ€™s disease. Brain Research, 2022, 1775, 147727.	2.2	4
2806	Long-range correlation analysis of high frequency prefrontal electroencephalogram oscillations for dynamic emotion recognition. Biomedical Signal Processing and Control, 2022, 72, 103291.	5.7	9
2807	Scale-dependent roughness parameters for topography analysis. Applied Surface Science Advances, 2022, 7, 100190.	6.8	10
2808	Toward Intelligent Car Comfort Sensing: New Dataset and Analysis of Annotated Physiological Metrics. , 2021, , .		3
2809	Autonomic Modulation in Duchenne Muscular Dystrophy During a Computer Task: A Prospective Transversal Controlled Trial Assessment by Non-linear Techniques. Frontiers in Neurology, 2021, 12, 720282.	2.4	2
2810	Inferring long memory using extreme events. Chaos, 2021, 31, 113131.	2.5	3
2811	Heart rate variability and subsequent psychological distress among family members of intensive care unit patients. Journal of International Medical Research, 2021, 49, 030006052110578.	1.0	1
2813	Biochaos in cardiac rhythms. European Physical Journal: Special Topics, 2022, 231, 833-845.	2.6	4

#	Article	IF	Citations
2814	A stochastic mixed effects model to assess treatment effects and fluctuations in homeâ€measured peak expiratory flow and the association with exacerbation risk in asthma. CPT: Pharmacometrics and Systems Pharmacology, 2022, 11, 212-224.	2.5	2
2815	Does instructing attentional focus direction affect static single leg balance performance?. International Journal of Sports Science and Coaching, 0, , 174795412110585.	1.4	1
2816	Association between nocturnal heart rate variability and incident cardiovascular disease events: The HypnoLaus population-based study. Heart Rhythm, 2022, 19, 632-639.	0.7	14
2817	Application of oxygen saturation variability analysis for the detection of exacerbation in individuals with COPD: A proofâ€ofâ€conceptstudy. Physiological Reports, 2021, 9, e15132.	1.7	9
2818	Topographic Analysis of Cognitive Load in Tacit Coordination Games Based on Electrophysiological Measurements. Lecture Notes in Information Systems and Organisation, 2021, , 162-171.	0.6	6
2819	MFDFA: Efficient multifractal detrended fluctuation analysis in python. Computer Physics Communications, 2022, 273, 108254.	7.5	21
2820	Long term correlation and inhomogeneity of the inverted pendulum sway time-series under the intermittent control paradigm. Communications in Nonlinear Science and Numerical Simulation, 2022, 108, 106198.	3.3	10
2821	Detrended Fluctuation Analysis Used in Heart Rate Variability to Assess the Depth of Anesthesia. , 2020, , .		0
2822	Dynamical Heart Beat Correlations During Complex Tasks - A Case Study in Automobile Driving. , 2021, , .		0
2823	Bubble Entropy of Fractional Gaussian Noise and Fractional Brownian Motion. , 2021, , .		0
2824	Modeling maintenance and repair: The matrix loaded. , 2022, , 229-255.		0
2825	Multifractal analysis of birdsong and its correlation structure. Physical Review E, 2022, 105, 014118.	2.1	1
2826	Classification of Weld Seam Width Based on Detrended Fluctuation Analysis, t-Distributed Stochastic Neighbor Embedding, and Support Vector Machine. Journal of Materials Engineering and Performance, 0, , 1.	2.5	1
2827	Intrinsic dynamics and topography of sensory input systems. Cerebral Cortex, 2022, 32, 4592-4604.	2.9	10
2828	Signal processing for cardiovascular applications in p-health. , 2022, , 85-118.		0
2829	Acoustic Response Characteristics of Lithium Cobaltate/Graphite Battery during Cycling. Journal of the Electrochemical Society, 2022, 169, 030511.	2.9	6
2831	Multiple timescales in bacterial growth homeostasis. IScience, 2022, 25, 103678.	4.1	6
2832	The Evaluation of Mean-Detrended Cross-Correlation Analysis Portfolio Strategy for Multiple risk Assets. Evaluation Review, 2022, 46, 138-164.	1.0	4

#	Article	IF	Citations
2833	Concurrent Evolution of Biomechanical and Physiological Parameters With Running-Induced Acute Fatigue. Frontiers in Physiology, 2022, 13, 814172.	2.8	9
2834	Fluctuation Analysis of the Dynamics of Systems with Time-Varying Characteristics. Technical Physics Letters, 2021, 47, 463-465.	0.7	0
2835	Stimulation and Control of Homeostasis. Open Journal of Biophysics, 2022, 12, 89-131.	0.5	3
2836	Epileptic Seizure Classification Using Spiking Neural Network fromÂEEG Signals. Lecture Notes in Electrical Engineering, 2022, , 297-306.	0.4	1
2837	A Heart Rate Variability-Based Paroxysmal Atrial Fibrillation Prediction System. Applied Sciences (Switzerland), 2022, 12, 2387.	2.5	4
2838	Fractional Processes and Their Statistical Inference: An Overview. Journal of the Indian Institute of Science, 0, , .	1.9	0
2839	Examining Long-Range Temporal Dependence in Experience Sampling Reports of Mind Wandering. Computational Brain & Behavior, 0, , 1.	1.7	0
2840	Postural control strategies are revealed by the complexity of fractional components of COP. Journal of Neurophysiology, 2022, 127, 1289-1297.	1.8	5
2841	Validity of detrended fluctuation analysis of heart rate variability to determine intensity thresholds in elite cyclists. European Journal of Sport Science, 2023, 23, 580-587.	2.7	12
2842	The Movesense Medical Sensor Chest Belt Device as Single Channel ECG for RR Interval Detection and HRV Analysis during Resting State and Incremental Exercise: A Cross-Sectional Validation Study. Sensors, 2022, 22, 2032.	3.8	18
2843	The impact of age, type 2 diabetes and hypertension on heart rate variability during rest and exercise at increasing levels of heat stress. European Journal of Applied Physiology, 2022, 122, 1249-1259.	2.5	3
2844	Quantification of Cardiovascular Regulation Applying Heart Rate Variability Analyses for Different Warm and Moist Chest Compresses in Healthy Subjects. , 2022, 28, 268-277.		0
2845	Effects of Supplemental Oxygen on Cardiovascular and Respiratory Interactions by Extended Partial Directed Coherence in Idiopathic Pulmonary Fibrosis. Frontiers in Network Physiology, 2022, 2, .	1.8	3
2846	Phase transitions detected in complex time series by multifractal detrended fluctuation analysis. International Journal of Modern Physics B, 0, , .	2.0	0
2847	Glycaemia dynamics in gestational diabetes mellitus. Biochimica Et Biophysica Acta - General Subjects, 2022, 1866, 130134.	2.4	6
2848	Separating Neural Oscillations from Aperiodic 1/f Activity: Challenges and Recommendations. Neuroinformatics, 2022, 20, 991-1012.	2.8	61
2849	Persistence in complex systems. Physics Reports, 2022, 957, 1-73.	25.6	24
2850	Extended detrended cross-correlation analysis of nonstationary processes. Chaos, Solitons and Fractals, 2022, 157, 111972.	5.1	3

#	Article	IF	Citations
2851	Complexity and Persistence of Price Time Series of the European Electricity Spot Market. , 2022, 1, .		10
2852	ANALYSIS OF HRV FOR POSTURAL CHANGE OF YOUNG ADULTS USING SIGNAL PROCESSING METHODS. Biomedical Engineering - Applications, Basis and Communications, 0, , .	0.6	1
2853	Respiratory pattern complexity in newly-diagnosed asthmatic patients. Respiratory Physiology and Neurobiology, 2022, 300, 103873.	1.6	1
2854	Spectral Electroencephalographic and Heart Rate Variability features enhance identification of medicated/non-medicated Parkinsonâ€™s disease patients. , 2021, 2021, 5846-5849.		1
2855	Analysis of Stop Consonants and Vowels in Indian Languages: A Multifractal Approach. , 2021, , .		1
2856	Deep Learning with Noise Data Augmentation and Detrended Fluctuation Analysis for Physical Action Classification by Brain-Computer Interface. , 2021, , .		2
2857	Neurotechnology and AI Approach for Early Dementia Onset Biomarker from EEG in Emotional Stimulus Evaluation Task. , 2021, 2021, 6675-6678.		6
2858	STXBP1 Syndrome Is Characterized by Inhibition-Dominated Dynamics of Resting-State EEG. Frontiers in Physiology, 2021, 12, 775172.	2.8	14
2859	Network oscillations imply the highest cognitive workload and lowest cognitive control during idea generation in open-ended creation tasks. Scientific Reports, 2021, 11, 24277.	3.3	12
2861	Measuring and Locating Zones of Chaos and Irregularity by Application of High Spectral Chaotic Global Variants. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, .	1.7	3
2862	Theoretical Study and Numerical Experiment on the Influence of Trend Changes on Correlation Coefficient. Atmosphere, 2022, 13, 66.	2.3	0
2863	Spatial Multi-Criterion Decision Making (SMDM) Drought Assessment and Sustainability over East Africa from 1982 to 2015. Remote Sensing, 2021, 13, 5067.	4.0	6
2865	Variational Embedding Multiscale Sample Entropy: A Tool for Complexity Analysis of Multichannel Systems. Entropy, 2022, 24, 26.	2.2	8
2866	Alterations in Patients With First-Episode Depression in the Eyes-Open and Eyes-Closed Conditions: A Resting-State EEG Study. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 1019-1029.	4.9	6
2867	Ergodic descriptors of non-ergodic stochastic processes. Journal of the Royal Society Interface, 2022, 19, 20220095.	3.4	10
2868	The mechanistic and prognostic implications of heart rate variability analysis in patients with cirrhosis. Physiological Reports, 2022, 10, e15261.	1.7	4
2869	Linear, Non-Linear and Wavelet Analysis of Cardiac Health Using Heart Rate Signals. , 2007, , 355-375.		0
2911	Detrended fluctuation analysis of genome-wide copy number profiles of glioblastomas using array-based comparative genomic hybridization. Neuro-Oncology, 2004, 6, 281-289.	1.2	7

#	Article	IF	Citations
2914	Identification and Classification of Physical Fatigue in Construction Workers Using Linear and Nonlinear Heart Rate Variability Measurements. SSRN Electronic Journal, 0, , .	0.4	0
2915	Multifractal Mice: Operationalising Dimensions of Readiness-to-hand via a Feature of Hand Movement. , 2022, , .		3
2916	Heart rate variability based physical exertion monitoring for manual material handling tasks. International Journal of Industrial Ergonomics, 2022, 89, 103301.	2.6	7
2917	Bumetanide Effects on Resting-State EEG in Tuberous Sclerosis Complex in Relation to Clinical Outcome: An Open-Label Study. Frontiers in Neuroscience, 2022, 16, .	2.8	3
2918	Longitudinally Tracking Maternal Autonomic Modulation During Normal Pregnancy With Comprehensive Heart Rate Variability Analyses. Frontiers in Physiology, 2022, 13, .	2.8	7
2919	Two dimensional searching paths exhibit fractal distribution that change with food availability (Normalized Difference Infrared Index, NDII). Ecological Indicators, 2022, 139, 108940.	6.3	0
2920	Covid-19 Automatic Test through Human Breathing. , 2021, , .		0
2921	Decreased Postural Complexity in Overweight to Obese Children and Adolescents: A Cross-Sectional Study. Frontiers in Human Neuroscience, 2022, 16, 850548.	2.0	2
2924	Computational Approaches and Tools as Applied to the Study of Rhythms and Chaos in Biology. Methods in Molecular Biology, 2022, , 277-341.	0.9	4
2925	Heart rate variability comparison between young males after 4â€“6Âweeks from the end of SARS-CoV-2 infection and controls. Scientific Reports, 2022, 12, .	3.3	12
2926	Machine Learning and Cointegration for Structural Health Monitoring of a Model Under Environmental Effects. SSRN Electronic Journal, 0, , .	0.4	0
2927	Prediction of Menstrual Cycle Phase by Wearable Heart Rate Sensor. , 2022, , 528-543.		0
2929	Predictive Capacity of Beat-to-Beat Blood Pressure Variability for Cardioautonomic and Vascular Dysfunction in Early Metabolic Challenge. Frontiers in Pharmacology, 0, 13, .	3.5	2
2930	Heart Rate Variability in Healthy Subjects During Monitored, Short-Term Stress Followed by 24-hour Cardiac Monitoring. Frontiers in Physiology, 0, 13, .	2.8	4
2931	Active force generation contributes to the complexity of spontaneous activity and to the response to stretch of murine cardiomyocyte cultures. Journal of Physiology, 0, , .	2.9	0
2932	A Single Session of SMR-Neurofeedback Training Improves Selective Attention Emerging from a Dynamic Structuring of Brainâ€“Heart Interplay. Brain Sciences, 2022, 12, 794.	2.3	0
2933	Novel and robust auxiliary indicators to ankle-brachial index using multi-site pulse arrival time and detrended fluctuation analysis for peripheral arterial disease assessment. Biomedical Signal Processing and Control, 2022, 77, 103865.	5.7	1
2934	Remote Drowsiness Detection Based on the mmWave FMCW Radar. IEEE Sensors Journal, 2022, 22, 15222-15234.	4.7	6

#	Article	IF	Citations
2935	Emergence of heartbeat frailty in advanced age I: perspectives from life-long EKG recordings in adult mice. GeroScience, 2022, 44, 2801-2830.	4.6	8
2936	Acute oxygen desaturation characterizes pulmonary aspiration in patients with gastroesophageal reflux disease and laryngopharyngeal reflux. Physiological Reports, 2022, 10, .	1.7	1
2937	Heart rate variability as a biomarker in patients with Chronic Chagas Cardiomyopathy with or without concomitant digestive involvement and its relationship with the Rassi score. BioMedical Engineering OnLine, 2022, 21, .	2.7	5
2938	The Influence of a Vibrotactile Biofeedback System on Postural Dynamics during Single-leg Standing in Healthy Older Adults. Neuroscience Letters, 2022, , 136807.	2.1	1
2939	Chronotropic Response and Heart Rate Variability before and after a 160 m Walking Test in Young, Middle-Aged, Frail, and Non-Frail Older Adults. International Journal of Environmental Research and Public Health, 2022, 19, 8413.	2.6	4
2940	Overnight sleeping heart rate variability of Army recruits during a 12-week basic military training course. European Journal of Applied Physiology, 2022, 122, 2135-2144.	2.5	1
2941	Runoff variation and response to precipitation on multi-spatial and temporal scales in the southern Tibetan Plateau. Journal of Hydrology: Regional Studies, 2022, 42, 101157.	2.4	3
2942	On the fractal geometry of gait dynamics in different neuro-degenerative diseases. Physics in Medicine, 2022, 14, 100050.	1.3	10
2943	Measuring fractal dynamics of FECG signals to determine the complexity of fetal heart rate. Chaos, Solitons and Fractals: X, 2022, 9, 100083.	2.1	5
2944	Fractal Time Series Analysis by Using Entropy and Hurst Exponent. , 2022, , .		2
2945	Cardio-Hypothalamic-Pituitary Coupling during Rest and in Response to Exercise. Entropy, 2022, 24, 1045.	2.2	2
2946	A Giant Falls: The Impact of Evergrande on Asian Stock Indexes. Journal of Risk and Financial Management, 2022, 15, 326.	2.3	1
2947	Practices and Applications of Heart Rate Variability Monitoring in Endurance Athletes. International Journal of Sports Medicine, 2023, 44, 9-19.	1.7	10
2948	Omega-3 fatty acids and autonomic function in adolescents with anorexia: A randomized trial. Pediatric Research, 0, , .	2.3	1
2949	Are morphologies of SERS active substrates multifractals? An inâ€depth study from multifractal detrended fluctuation analysis. Journal of Raman Spectroscopy, 2022, 53, 2031-2043.	2.5	0
2950	Brain entropy, fractal dimensions and predictability: A review of complexity measures for EEG in healthy and neuropsychiatric populations. European Journal of Neuroscience, 2022, 56, 5047-5069.	2.6	40
2951	The association between continuous ambulatory heart rate, heart rate variability, and 24-h rhythms of heart rate with familial longevity and aging. Aging, 2022, 14, 7223-7239.	3.1	1
2952	Economic Choice and Heart Rate Fractal Scaling Indicate That Cognitive Effort Is Reduced by Depression and Boosted by Sad Mood. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2023, 8, 687-694.	1.5	6

#	Article	IF	Citations
2953	Associations between heart rate asymmetry expression and asymmetric detrended fluctuation analysis results. Medical and Biological Engineering and Computing, 0, , .	2.8	1
2954	Association of the Heart Rate Variability Response to Active Standing with the Severity of Calcific Aortic Valve Disease: Novel Insights of a Neurocardiovascular Pathology. Journal of Clinical Medicine, 2022, 11, 4771.	2.4	1
2955	Detrending Moving Average, Power Spectral Density, and Coherence: Three EEG-Based Methods to Assess Emotion Irradiation during Facial Perception. Applied Sciences (Switzerland), 2022, 12, 7849.	2.5	3
2956	On the Spatial Distribution of Temporal Complexity in Resting State and Task Functional MRI. Entropy, 2022, 24, 1148.	2.2	3
2957	TraTSA: A Transprecision Framework for Efficient Time Series Analysis. Journal of Computational Science, 2022, 63, 101784.	2.9	1
2958	On the fractal geometry of different heart rhythms. Chaos, Solitons and Fractals: X, 2022, 9, 100085.	2.1	4
2959	Four Methods to Distinguish between Fractal Dimensions in Time Series through Recurrence Quantification Analysis. Entropy, 2022, 24, 1314.	2.2	1
2960	Correlation between heart rate variability and polysomnography-derived scores of obstructive sleep apnea. Frontiers in Network Physiology, 0, 2, .	1.8	2
2961	Usefulness of Surface Electromyography Complexity Analyses to Assess the Effects of Warm-Up and Stretching during Maximal and Sub-Maximal Hamstring Contractions: A Cross-Over, Randomized, Single-Blind Trial. Biology, 2022, 11, 1337.	2.8	4
2962	Nonlinear analysis of postural changes related to the movement interventions during prolonged standing task. Ergonomics, 2023, 66, 939-953.	2.1	1
2963	Fractal and multifractal descriptors restore ergodicity broken by non-Gaussianity in time series. Chaos, Solitons and Fractals, 2022, 163, 112568.	5.1	7
2964	Do the global grain spot markets exhibit multifractal nature?. Chaos, Solitons and Fractals, 2022, 164, 112663.	5.1	22
2965	Exploratory Cross-Frequency Coupling and Scaling Analysis of Neuronal Oscillations Stimulated by Emotional Images: An Evidence From EEG. IEEE Transactions on Cognitive and Developmental Systems, 2023, 15, 1732-1743.	3.8	0
2966	Hurst Exponent. Encyclopedia of Earth Sciences Series, 2022, , 1-6.	0.1	0
2967	Discovery of early-alert indicators using hybrid ensemble learning and generative physics-based models. , 2022, , .		1
2968	Exploration of the Severity of Hepatic Encephalopathy Deterioration Process Through Dynamics of the EEG Band Power time series. , 2022, , .		0
2969	Functional electrical stimulation driven by a brainâ€“computer interface in acute and subacute stroke patients impacts beta power and long-range temporal correlation. , 2022, , .		1
2970	Validity of the Polar H10 Sensor for Heart Rate Variability Analysis during Resting State and Incremental Exercise in Recreational Men and Women. Sensors, 2022, 22, 6536.	3.8	32

#	Article	IF	Citations
2971	Leveraging Neural-Networks, Boosting and Domain-Knowledge to Discover Physiological Indicators with Minimal Sensitivity to Data Resolution. , 2022, , .		0
2972	Methods for Mathematical Analysis of Simulated and Real Fractal Processes with Application in Cardiology. Mathematics, 2022, 10, 3427.	2.2	1
2973	Analysis of detrended fluctuation function derived from continuous glucose monitoring may assist in distinguishing latent autoimmune diabetes in adults from T2DM. Frontiers in Endocrinology, 0, 13, .	3.5	0
2974	Weakened Sustained Attention and Increased Cognitive Effort after Total Sleep Deprivation: A Virtual Reality Ecological Study. International Journal of Human-Computer Interaction, 0, , 1-10.	4.8	1
2975	Targeting autonomic nervous system as a biomarker of well-ageing in the prevention of stroke. Frontiers in Aging Neuroscience, 0, 14, .	3.4	7
2976	Contact.engineeringâ€"Create, analyze and publish digital surface twins from topography measurements across many scales. Surface Topography: Metrology and Properties, 2022, 10, 035032.	1.6	7
2978	Autocorrelation of wind speed: A sliding window approach. Physica A: Statistical Mechanics and Its Applications, 2022, , 128213.	2.6	2
2979	ECG and Heart Rate Variability in Sleep-Related Breathing Disorders. Advances in Experimental Medicine and Biology, 2022, , 159-183.	1.6	1
2980	CyberCoach: a Wearable Biofeedback System for Runners. , 2022, , .		0
2981	TÃ¼rkiye YaÄŸÄ±ÅŸ Åžiddeti Serilerinin Homojenlik Analizi. SÃ¼rdÃ¼rÃ¼lebilir MÃ¼hendislik UygulamalarÄ± Ve Teknolojik GeliÅŸmeler Dergisi, 0, , .	0.5	0
2982	Comparing measurements of head motion and centre of pressure for body sway induced by optic flow on a head-mounted display. Frontiers in Virtual Reality, 0, 3, .	3.7	0
2983	Detecting Metabolic Thresholds from Nonlinear Analysis of Heart Rate Time Series: A Review. International Journal of Environmental Research and Public Health, 2022, 19, 12719.	2.6	5
2984	Temporal and spatial goal-directed reaching in upper limb prosthesis users. Experimental Brain Research, 2022, 240, 3011-3021.	1.5	2
2985	Validation of a non-linear index of heart rate variability to determine aerobic and anaerobic thresholds during incremental cycling exercise in women. European Journal of Applied Physiology, 2023, 123, 299-309.	2.5	8
2986	Stride-to-stride time intervals are independently affected by the temporal pattern and probability distribution of visual cues. Neuroscience Letters, 2023, 792, 136909.	2.1	3
2987	The Hemisphere of the Brain in Which a Stroke Has Occurred Visible in the Heart Rate Variability. Life, 2022, 12, 1659.	2.4	4
2988	Multiscale-Multifractal Assessment ofÂHeart Rate Variability inÂShift Workers byÂDetrended Fluctuation Analysis. IFMBE Proceedings, 2023, , 324-331.	0.3	0
2989	A Simplistic and Novel Technique for ECG Signal Pre-Processing. IETE Journal of Research, 0, , 1-12.	2.6	9

#	Article	IF	Citations
2990	Development and validation of the food cue responsivity scale. Physiology and Behavior, 2023, 258, 114028.	2.1	1
2991	Structure of PoincarÃ© plots revealed by their graph analysis and low pass filtering of the RRI time series. Biomedical Signal Processing and Control, 2023, 80, 104352.	5.7	0
2992	Fractal angle modality patterns in RRI and respiration signal of healthy subjects responding to orthostasis and slow breathing. , 2022, , .		1
2993	Sensitivity Estimations in Favor of Using Inter-fractal Angle in Detrended Fluctuation Analysis. , 2022, , .		0
2994	Signatures of illness in children requiring unplanned intubation in the pediatric intensive care unit: A retrospective cohort machine-learning study. Frontiers in Pediatrics, 0, 10, .	1.9	0
2995	Exposure, but not timing of exposure, to a sulfonylurea herbicide alters larval development and behaviour in an amphibian species. Aquatic Toxicology, 2023, 254, 106355.	4.0	1
2996	On the scaling properties of oscillatory modes with balanced energy. Frontiers in Network Physiology, 0, 2, .	1.8	0
2997	Intermittency of Rock Fractured Surfaces: A Power Law. Water (Switzerland), 2022, 14, 3662.	2.7	1
2998	Extended detrended cross-correlation analysis of electrocorticograms. European Physical Journal: Special Topics, 0, , .	2.6	1
2999	Multiscale entropy and fluctuation analyses of complex signals. European Physical Journal: Special Topics, 0, , .	2.6	1
3000	Cross-correlation analysis at multiple resolutions. European Physical Journal: Special Topics, 0, , .	2.6	1
3001	Application of the Loewner Equation for Neurite Outgrowth Mechanism. , 0, , .		0
3002	Multiresolution wavelet analysis of transients: numerical simulations and application to EEG. European Physical Journal: Special Topics, 0, , .	2.6	1
3004	Investigation of long memory in concrete fracture through acoustic emission time series analysis under monotonic and fatigue loading. Engineering Fracture Mechanics, 2023, 277, 108975.	4.3	6
3005	é‹žç·šå½¢æ™‚ç³»åˆ—è§£æžã«ã‚ˆã‚‹å‹•ä½œã®è³ªã®è©•ä¾¡ã¨è¨ºæ–ï¼šåŒ»ç™‚ãƒ»ã‚¹ãƒãƒ¼ãƒ„åˆ†é‡Žã¸ã®å¿œç”¨. Journal of the Societ	0.0	0
3006	When Heart Beats Differently in Depression: Review of Nonlinear Heart Rate Variability Measures. JMIR Mental Health, 0, 10, e40342.	3.3	5
3007	Differentiating acute from chronic insomnia with machine learning from actigraphy time series data. Frontiers in Network Physiology, 0, 2, .	1.8	2
3008	Fractal Properties of Heart Rate Dynamics: A New Biomarker for Anesthesiaâ€"Biphasic Changes in General Anesthesia and Decrease in Spinal Anesthesia. Sensors, 2022, 22, 9258.	3.8	0

#	Article	IF	Citations
3009	Feature Selection for Continuous within- and Cross-User EEG-Based Emotion Recognition. Sensors, 2022, 22, 9282.	3.8	0
3010	Evaluation of the effects of dexamethasone in modulating breathing pattern decomplexification in rats with 2-chloroethyl ethyl sulfide-induced lung injury. , 2022, 125, 596-601.		0
3011	Fractal correlation properties of HRV as a noninvasive biomarker to assess the physiological status of triathletes during simulated warm-up sessions at low exercise intensity: a pilot study. BMC Sports Science, Medicine and Rehabilitation, 2022, 14, .	1.7	5
3012	Homology groups of embedded fractional Brownian motion. Physical Review E, 2022, 106, .	2.1	0
3013	Wrist accelerometer temporal analysis as a prognostic tool for aged care residents: A subâ€study of the <scp>ReMInDAR</scp> trial. Journal of the American Geriatrics Society, 2023, 71, 1124-1133.	2.6	1
3014	Evaluation of writing motion using principal component analysis and scaling analysis. Artificial Life and Robotics, 0, , .	1.2	0
3016	Physical activity, balance, and bicycling in older adults. PLoS ONE, 2022, 17, e0273880.	2.5	2
3017	The use of non-linear tools to analyze the variability of force production as an index of fatigue: A systematic review. Frontiers in Physiology, 0, 13, .	2.8	2
3018	Early transient dysautonomia predicts the risk of infantile epileptic spasm syndrome onset: A prospective cohort study. Frontiers in Neurology, 0, 13, .	2.4	1
3019	Characterization of trial duration in traditional and emerging postural control measures. Journal of Biomechanics, 2023, 147, 111438.	2.1	2
3020	Teleconnections among tipping elements in the Earth system. Nature Climate Change, 2023, 13, 67-74.	18.8	19
3021	Heart Rate Variability in Individuals with Down Syndrome: A Scoping Review with Methodological Considerations. International Journal of Environmental Research and Public Health, 2023, 20, 941.	2.6	1
3022	Ensemble of Heterogeneous Base Classifiers for Human Gait Recognition. Sensors, 2023, 23, 508.	3.8	6
3023	Temporal Structure in Sensorimotor Variability: A Stable Trait, But What For?. Computational Brain & Behavior, 0, , .	1.7	1
3024	Scale-Free Dynamics in Instantaneous Alpha Frequency Fluctuations: Validation, Testâ€“Retest Reliability and Its Relationship with Task Manipulations. Brain Topography, 0, , .	1.8	0
3025	Effects of Motor Task Difficulty on Postural Control Complexity during Dual Tasks in Young Adults: A Nonlinear Approach. Sensors, 2023, 23, 628.	3.8	8
3026	Changes in Maternal Heart Rate and Autonomic Regulation following the Antenatal Administration of Corticosteroids: A Secondary Analysis. Journal of Clinical Medicine, 2023, 12, 588.	2.4	0
3027	LightFFNet: MDD Prediction on EEG Quantitative Biomarkers. , 2022, , .		0

#	Article	IF	Citations
3028	Extended Detrended Fluctuation Analysis of Coarse-Grained Time Series. Diagnostics, 2023, 13, 93.	2.6	0
3030	Heart rate variability is not suitable as a surrogate marker for pain intensity in patients with chronic pain. Pain, 2023, 164, 1741-1749.	4.2	3
3031	Characterization of Anesthesia in Rats from EEG in Terms of Long-Range Correlations. Diagnostics, 2023, 13, 426.	2.6	2
3032	Assessing 1D Hydrodynamic Modeling of JÃªcar River Behavior in Mancha Oriental Aquifer Domain (SE) Tj ETQq1 1 0.784314 rgBT /Ov	2.7	0
3034	Assessing proprioception through time-variability properties of acceleration. Frontiers in Physiology, 0, 14, .	2.8	1
3035	TO DRAW OR NOT TO DRAW: UNDERSTANDING THE TEMPORAL ORGANIZATION OF DRAWING BEHAVIOR USING FRACTAL ANALYSES. Fractals, 0, , .	3.7	0
3036	Peripheral blood flow estimated by laser doppler flowmetry provides additional information about sleep state beyond that provided by pulse rate variability. Frontiers in Physiology, 0, 14, .	2.8	0
3037	A Novel Feature for Fault Classification of Rotating Machinery: Ternary Approximate Entropy for Original, Shuffle and Surrogate Data. Machines, 2023, 11, 172.	2.2	0
3038	Fluctuations of the Center of Pressure in Autism Spectrum Disorder. Advances in Neurodevelopmental Disorders, 0, , .	1.1	0
3039	Fractal Pattern Identification from Wearable Inertial and Electromyographic Signals Data during Walking. , 2022, , .		0
3040	Heart rate variability in different sleep stages is associated with metabolic function and glycemic control in type 2 diabetes mellitus. Frontiers in Physiology, 0, 14, .	2.8	2
3041	Statistics of Winding Angle and Loewner Driving Force of Neurite Curves. Journal of the Physical Society of Japan, 2023, 92, .	1.6	0
3042	The effect of musk incense stick aroma inhalation on different features of electroencephalogram signals and working memory for use in neurofeedback training. Biomedical Signal Processing and Control, 2023, 83, 104658.	5.7	0
3043	Multifractal descriptors ergodically characterize non-ergodic multiplicative cascade processes. Physica A: Statistical Mechanics and Its Applications, 2023, 617, 128651.	2.6	5
3044	Relationships between changes in lateral vestibulospinal tract excitability and postural control by dynamic balance intervention in healthy individuals: A preliminary study. Frontiers in Human Neuroscience, 0, 17, .	2.0	3
3045	Online detrended fluctuation analysis and improved empirical wavelet transform for real-time oscillations detection in industrial control loops. Computers and Chemical Engineering, 2023, 172, 108173.	3.8	1
3046	One-Leg Stance Postural Sway Is Not Benefited by Bicycle Motocross Practice in Elite Riders. Journal of Functional Morphology and Kinesiology, 2023, 8, 25.	2.4	0
3047	Human Motor Noise Assessed by Electromagnetic Sensors and Its Relationship with the Degrees of Freedom Involved in Movement Control. Sensors, 2023, 23, 2256.	3.8	1

#	Article	IF	Citations
3048	Systemic Signals Induced by Single and Combined Abiotic Stimuli in Common Bean Plants. Plants, 2023, 12, 924.	3.5	4
3049	The Role of Heart Rate Variability (HRV) in Different Hypertensive Syndromes. Diagnostics, 2023, 13, 785.	2.6	8
3050	Age Prediction in Healthy Subjects Using RR Intervals and Heart Rate Variability: A Pilot Study Based on Deep Learning. Applied Sciences (Switzerland), 2023, 13, 2932.	2.5	1
3051	Multidimensional fractal scaling analysis using higher order moving average polynomials and its fast algorithm. Signal Processing, 2023, 208, 108997.	3.7	0
3052	Increased exposure of coastal cities to sea-level rise due to internal climate variability. Nature Climate Change, 2023, 13, 367-374.	18.8	7
3054	FRACTAL RADIOPHYSICS. Part 2. FRACTAL AND MULTIFRACTAL ANALYSIS METHODS OF SIGNALS AND PROCESSES. Radio Physics and Radio Astronomy, 2023, 28, 5-70.	0.3	1
3055	Smartwatch-derived heart rate variability: a head-to-head comparison with the gold standard in cardiovascular disease. European Heart Journal Digital Health, 2023, 4, 155-164.	1.7	3
3056	Time-resolved correlation of distributed brain activity tracks E-I balance and accounts for diverse scale-free phenomena. Cell Reports, 2023, 42, 112254.	6.4	3
3057	The role of teleconnections and solar activity on the discharge of tropical river systems within the Niger basin. Environmental Monitoring and Assessment, 2023, 195, .	2.7	1
3058	Research on Fatigue Assessment Algorithm based on ECG and Multi-source Physiological Signals. , 2022, , .		0
3059	Computer Aided Detection of Major Depressive Disorder (MDD) Using Electroencephalogram Signals. IEEE Access, 2023, 11, 41133-41141.	4.2	4
3060	Effects of marathon training on heart rate variability during submaximal running: a comparison of analysis techniques. Sport Sciences for Health, 2024, 20, 47-54.	1.3	0
3061	Differential Fractal and Circadian Patterns in Motor Activity in Spontaneously Hypertensive Rats at the Stage of Prehypertension. Advanced Biology, 0, , .	2.5	0
3062	Nonlinear analysis of heart rate variability signals in meditative state: a review and perspective. BioMedical Engineering OnLine, 2023, 22, .	2.7	0
3063	Visibility Graph Analysis of Heartbeat Time Series: Comparison of Young vs. Old, Healthy vs. Diseased, Rest vs. Exercise, and Sedentary vs. Active. Entropy, 2023, 25, 677.	2.2	0
3064	On the distinct differences in autonomic regulation between pregnant and non-pregnant women - a heart rate variability analysis. Physiological Measurement, 0, , .	2.1	2
3065	Correlation between electroencephalographic markers in the healthy brain. Scientific Reports, 2023, 13, .	3.3	2
3066	Correlates of Person-Specific Rates of Change in Sensor-Derived Physical Activity Metrics of Daily Living in the Rush Memory and Aging Project. Sensors, 2023, 23, 4152.	3.8	3

#	Article	IF	Citations
3068	Combining Heart Rate Variability and Oximetry to Improve Apneic Event Screening in Non-Desaturating Patients. Sensors, 2023, 23, 4267.	3.8	1
3069	Evaluation of the Methods for Nonlinear Analysis of Heart Rate Variability. Fractal and Fractional, 2023, 7, 388.	3.3	0
3070	Response of cross-correlations between high PM2.5 and O3 with increasing time scales to the COVID-19: different trends in BTH and PRD. Environmental Monitoring and Assessment, 2023, 195, .	2.7	0
3071	Quantifying the Effect of Driving Factors on Spring Discharge in an Industrialized Karst Watershed. Journal of Hydrologic Engineering - ASCE, 2023, 28, .	1.9	0
3072	Identification and Classification of Physical Fatigue in Construction Workers Using Linear and Nonlinear Heart Rate Variability Measurements. Journal of Construction Engineering and Management - ASCE, 2023, 149, .	3.8	4
3073	Understanding Intraday Oil Price Dynamics during the COVID-19 Pandemic: New Evidence from Oil and Stock Investor Sentiments. Energy Journal, 2024, 45, 77-105.	1.7	2
3074	Heart rate variability parameters were not associated with 30-day all-cause mortality in intensive care unit patients with or without atrial fibrillation: A Retrospective Study of the MIMIC-IV Database. Shock, 0, Publish Ahead of Print, .	2.1	0
3075	Analysis of region of interest (RoI) of brain for detection of depression using EEG signal. Multimedia Tools and Applications, 2024, 83, 763-786.	3.9	2
3076	Whether the updates of dynamical processes can improve the performance of BCCâ€CSM model to reproduce the longâ€range correlation of the daily temperature?. International Journal of Climatology, 2023, 43, 4368-4378.	3.5	1
3077	Ergodic characterization of nonergodic anomalous diffusion processes. Physical Review Research, 2023, 5, .	3.6	4
3078	Heart Rate Variability as a Translational Dynamic Biomarker of Altered Autonomic Function in Health and Psychiatric Disease. Biomedicines, 2023, 11, 1591.	3.2	1
3079	Analysis of fractal properties of horizontal component of Earthâ€™s magnetic field of different geomagnetic conditions using MFDFA. Advances in Space Research, 2023, 72, 2391-2405.	2.6	2
3080	A novel intelligent approach for predicting meteorological drought based on satellite-based precipitation product: Application of an EMD-DFA-DBN hybrid model. Computers and Electronics in Agriculture, 2023, 211, 107946.	7.7	4
3081	Multiscale Analysis and Prediction of Sea Level in the Northern South China Sea Based on Tide Gauge and Satellite Data. Journal of Marine Science and Engineering, 2023, 11, 1203.	2.6	1
3082	Temporal Correlations inÂtheÂMagnitude Time Series Before andÂAfter theÂMinimum ofÂtheÂOrder Parameter Fluctuations ofÂSeismicity. , 2023, , 55-76.		0
3083	Minimum ofÂtheÂSeismicity Entropy Change Under Time Reversal Before Major Earthquakes inÂNatural Time Analysis. , 2023, , 119-151.		0
3084	From pre-processing to advanced dynamic modeling of pupil data. Behavior Research Methods, 0, , .	4.0	8
3085	Water drinking during aerobic exercise improves the recovery of non-linear heart rate dynamics in coronary artery disease: crossover clinical trial. Frontiers in Neuroscience, 0, 17, .	2.8	0

#	Article	IF	Citations
3086	The nonlinearity of pupil diameter fluctuations in an insight task as criteria for detecting children who solve the problem from those who do not. Frontiers in Psychology, 0, 14, .	2.1	0
3087	Crossâ€country high impedance fault diagnosis scheme for unbalanced distribution network employing detrended crossâ€correlation. IET Generation, Transmission and Distribution, 0, , .	2.5	2
3088	Spatial and temporal heterogeneity of air pollution in East Africa. Science of the Total Environment, 2023, 886, 163734.	8.0	2
3089	Monitoring Blood Pressure Variability via Chaotic Global Metrics using Local Field Potential Oscillations. Chaos Theory and Applications:, 0, , .	2.6	0
3090	Prediction ofÂVentricular Tachyarrhythmia Using Deep Learning. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 51-60.	0.3	0
3091	Temporal complexity measure of reaction time series: Operational versus event time. Brain and Behavior, 2023, 13, .	2.2	6
3092	Maximal Memory Capacity Near the Edge of Chaos in Balanced Cortical E-I Networks. Neural Computation, 2023, 35, 1430-1462.	2.2	0
3093	Hurst Exponent. Encyclopedia of Earth Sciences Series, 2023, , 620-625.	0.1	0
3094	Multifractal Features and Dynamical Thresholds of Temperature Extremes in Bangladesh. Fractal and Fractional, 2023, 7, 540.	3.3	0
3095	Analysis of the fractal characteristics for combustion instability in a premixed natural gas engine. Applied Thermal Engineering, 2023, 233, 121177.	6.0	1
3096	Fractal Methods in Nonequilibrium Systems. , 0, , .		0
3097	Heart Rate Variability-Derived Thresholds for Exercise Intensity Prescription in Endurance Sports: A Systematic Review of Interrelations and Agreement with Different Ventilatory and Blood Lactate Thresholds. Sports Medicine - Open, 2023, 9, .	3.1	4
3098	Using the photoplethysmography method to monitor age-related changes in the cardiovascular system. Frontiers in Physiology, 0, 14, .	2.8	1
3099	Indices from visibility graph complexity of spontaneous speech signal: An efficient nonlinear tool for Alzheimer's disease diagnosis. Chaos, Solitons and Fractals, 2023, 174, 113829.	5.1	2
3100	DFA as a window into postural dynamics supporting task performance: does choice of step size matter?. Frontiers in Network Physiology, 0, 3, .	1.8	0
3101	CARDIAC AUTONOMIC MODULATION IN INDIVIDUALS WITH CONTROLLED AND UNCOMPLICATED HYPERTENSION DURING EXERCISE-HEAT STRESS. Applied Physiology, Nutrition and Metabolism, 0, , .	1.9	0
3102	Deep learning for obstructive sleep apnea diagnosis based on single channel oximetry. Nature Communications, 2023, 14, .	12.8	3
3103	Temporal Feature Extraction and Machine Learning for Classification of Sleep Stages Using Telemetry Polysomnography. Brain Sciences, 2023, 13, 1201.	2.3	1

#	Article	IF	Citations
3104	Comparison of the effects of rhythmic vibrotactile stimulations and rhythmic auditory stimulations on Parkinson's disease patientsâ€™ gait variability: a pilot study. Acta Neurologica Belgica, 2024, 124, 161-168.	1.1	0
3105	Face2PPG: An Unsupervised Pipeline for Blood Volume Pulse Extraction From Faces. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 5530-5541.	6.3	7
3106	Temporal organization of stride-to-stride variations contradicts predictive models for sensorimotor control of footfalls during walking. PLoS ONE, 2023, 18, e0290324.	2.5	2
3107	DETERMINING THE MOST POWERFUL FEATURES IN THE DESIGN OF AN AUTOMATIC SLEEP STAGING SYSTEM. Konya Journal of Engineering Sciences, 0, , 783-800.	0.3	0
3108	Fractal Patterns in Groundwater Radon Disturbances Prior to the Great 7.9 Mw Wenchuan Earthquake, China. Geosciences (Switzerland), 2023, 13, 268.	2.2	0
3109	Entropy-Based Multifractal Testing of Heart Rate Variability during Cognitive-Autonomic Interplay. Entropy, 2023, 25, 1364.	2.2	0
3110	A Review of Methods and Applications for a Heart Rate Variability Analysis. Algorithms, 2023, 16, 433.	2.1	0
3111	Autonomous neural network activation during religious worship experiences using heart rate variability measurements. Religion, Brain and Behavior, 0, , 1-22.	0.7	0
3112	Fractal complexity alternations in paroxysmal atrial fibrillation patients with and without recurrence after pulmonary vein isolation. Annals of Noninvasive Electrocardiology, 2023, 28, .	1.1	0
3113	Heart rate variability as a marker and predictor of inflammation, nosocomial infection, and sepsis â€“ A systematic review. Autonomic Neuroscience: Basic and Clinical, 2023, 249, 103116.	2.8	1
3114	Toward economic function of elite social networks. Chinese Journal of Physics, 2023, 85, 776-785.	3.9	0
3115	Entropy and fractal analysis of brain-related neurophysiological signals in Alzheimerâ€™s and Parkinsonâ€™s disease. Journal of Neural Engineering, 2023, 20, 051001.	3.5	1
3116	Social andÂNon-social Reward Learning Contexts forÂDetection ofÂMajor Depressive Disorder Using EEG: A Machine Learning Approach. Lecture Notes in Computer Science, 2023, , 369-382.	1.3	0
3117	Effects of the hierarchical lockdown control measure on the dynamic mechanism of individualsâ€™ locomotor activities. Chaos, Solitons and Fractals, 2023, 175, 113980.	5.1	0
3118	Signal Variability Comparative Analysis of Healthy Early- and Late-Pubertal Children during Cardiopulmonary Exercise Testing. Medicine and Science in Sports and Exercise, 2024, 56, 287-296.	0.4	0
3119	A Multivariate Method for Dynamic System Analysis: Multivariate Detrended Fluctuation Analysis Using Generalized Variance. Topics in Cognitive Science, 0, , .	1.9	0
3120	A heartbeat-interval time series analysis, Modified Detrended Fluctuation Analysis, mDFA, distinguishes between stressed- and happy-heartbeats, from invertebrate animals to humans. , 0, , .		0
3121	Overview of methods and available tools used in complex brain disorders. Open Research Europe, 0, 3, 152.	2.0	1

#	Article	IF	Citations
3122	Mouse tracking performance: A new approach to analyzing continuous mouse tracking data. Behavior Research Methods, 0, , .	4.0	0
3123	Analysis of tachograms from subjects on stress test, a multifractal approach. AIP Conference Proceedings, 2023, , .	0.4	0
3126	Onset Estimation of Delayed Cerebral Ischemia by Detecting Change Points in a Time Series of Heart Rate Variability Parameters. , 2023, , .		0
3127	Arctic weather variability and connectivity. Nature Communications, 2023, 14, .	12.8	0
3128	Multifractality in stride-to-stride variations reveals that walking involves more movement tuning and adjusting than running. Frontiers in Network Physiology, 0, 3, .	1.8	1
3129	Multifractal foundations of biomarker discovery for heart disease and stroke. Scientific Reports, 2023, 13, .	3.3	1
3130	USE OF THE GINI COEFFICIENT FOR THE ANALYSIS OF HEART RATE VARIABILITY IN SICK AND HEALTHY INDIVIDUALS. , 0, , .		0
3131	A guide to Whittle maximum likelihood estimator in MATLAB. Frontiers in Network Physiology, 0, 3, .	1.8	0
3132	Approaches for Assessing Circadian Rest-Activity Patterns Using Actigraphy in Cohort and Population-Based Studies. Current Sleep Medicine Reports, 2023, 9, 247-256.	1.4	3
3133	Quantifying non-Gaussian intermittent fluctuations in physiology: Multiscale probability density function analysis using the Savitzky-Golay detrending. Physical Review Research, 2023, 5, .	3.6	1
3134	NONAN GaitPrint: An IMU gait database of healthy young adults. Scientific Data, 2023, 10, .	5.3	0
3135	Heart rhythm complexity analysis in patients with inferior ST-elevation myocardial infarction. Scientific Reports, 2023, 13, .	3.3	0
3136	Multifractal Auditory Stimulation Promotes the Effect of Multifractal Torso Sway on Spatial Perception: Evidence from Distance Perception by Blindwalking. Ecological Psychology, 2023, 35, 136-182.	1.1	1
3137	Characterizing EEG signals of meditative states using persistent homology and Hodge spectral entropy. Biomedical Signal Processing and Control, 2024, 89, 105779.	5.7	0
3138	NLDyn - An open source MATLAB toolbox for the univariate and multivariate nonlinear dynamical analysis of physiological data. Computer Methods and Programs in Biomedicine, 2024, 243, 107941.	4.7	0
3139	Inter-day reliability of heart rate complexity and variability metrics in healthy highly active younger and older adults. European Journal of Applied Physiology, 0, , .	2.5	0
3141	Multimodal coupling and HRV assessment characterize autonomic functional changes in congestive heart failure patients with sinus rhythm or severe arrhythmia. Biomedical Signal Processing and Control, 2024, 89, 105764.	5.7	0
3142	Multifractal analysis of the Southern Oscillation Index. Journal of Atmospheric and Solar-Terrestrial Physics, 2024, 254, 106161.	1.6	0

#	Article	IF	Citations
3143	The effectiveness of time domain and nonlinear heart rate variability metrics in ultraâ€short time series. Physiological Reports, 2023, 11, .	1.7	0
3144	Statistical analysis of local fluctuations in the signal profile: application to electrocorticograms. European Physical Journal: Special Topics, 0, , .	2.6	0
3145	Spatiotemporal Gait Variability in Children Aged 2 to 10 Decreases throughout Pre-Adolescence. Biomechanics, 2023, 3, 571-582.	1.2	0
3146	Classification of ECG signals based on local fractal feature. Multimedia Tools and Applications, 0, , .	3.9	0
3147	Sex differences in the fractal dynamics of force control during maximal handgrip. Neuroscience Letters, 2024, 820, 137588.	2.1	0
3148	Temporal stability and correlation of EEG markers and depression questionnaires scores in healthy people. Scientific Reports, 2023, 13, .	3.3	0
3149	Modifications of long-term heart rate variability produced in an experimental model of diet-induced metabolic syndrome. Interface Focus, 2023, 13, .	3.0	1
3150	Anesthesia effects in rat electrocorticograms characterized using detrended fluctuation analysis and its extension. European Physical Journal: Special Topics, 0, , .	2.6	1
3151	Short and long-range correlations in single-channel currents from inwardly rectifying K<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si128.svg" display="inline" id="d1e613"><mml:msup><mml:mrow /><mml:mrow><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math> channels. Chaos, Solitons and Fractals, 2024, 178, 114333.	5.1	1
3152	Effects of Constant and Time-Varying Display Lag on DVP and Cybersickness When Making Head-Movements in Virtual Reality. International Journal of Human-Computer Interaction, 0, , 1-18.	4.8	0
3153	Estimation of physiological exercise thresholds based on dynamical correlation properties of heart rate variability. Frontiers in Physiology, 0, 14, .	2.8	0
3155	The inverse problem for cardiac arrhythmias. Chaos, 2023, 33, .	2.5	0
3156	Early exposure to mercury and cardiovascular function of seven-year old children in Guadeloupe (French West Indies). Environmental Research, 2024, 246, 117955.	7.5	0
3157	Classification of drought severity in contiguous USA during the past 21 years using fractal geometry. Eurasip Journal on Advances in Signal Processing, 2024, 2024, .	1.7	0
3158	CVRanalysis: a free software for analyzing cardiac, vascular and respiratory interactions. Frontiers in Physiology, 0, 14, .	2.8	0
3159	EMD and VMD in Pre-Movement EEG Signal Analysis: A Hybrid Mode Selection to Classify Upper Limb Complex Movements Using Statistical Features. , 2023, , .		0
3161	The utility of heart rate and heart rate variability to identify limits of tolerance to moderate-intensity work in the heat: a secondary analysis. Applied Physiology, Nutrition and Metabolism, 2024, 49, 539-546.	1.9	0
3162	Elastic Shakedown and Roughness Evolution in Repeated Elasticâ€“Plastic Contact. Tribology Letters, 2024, 72, .	2.6	1

#	Article	IF	Citations
3163	Testing the â€˜differences in virtual and physical head poseâ€™ and â€˜subjective vertical conflictâ€™ accounts of cybersickness. Virtual Reality, 2024, 28, .	6.1	0
3165	Linear multifractional stable motion for modeling of fluid-filled regions in retinal optical coherence tomography images. Chaos, Solitons and Fractals, 2024, 180, 114486.	5.1	0
3166	An extensive quantitative analysis of the effects of errors in beat-to-beat intervals on all commonly used HRV parameters. Scientific Reports, 2024, 14, .	3.3	0
3169	Long-range temporal correlations in resting state alpha oscillations in major depressive disorder and obsessive-compulsive disorder. Frontiers in Neuroinformatics, 0, 18, .	2.5	0
3170	Relationship between extreme climate and vegetation in arid and semi-arid mountains in China: A case study of the Qilian Mountains. Agricultural and Forest Meteorology, 2024, 348, 109938.	4.8	0
3171	From Cognitive Agents to Cognitive Systems: Theoretical, Methodological, and Empirical Developments of van Gelder's (1998) â€œDynamical Hypothesisâ€• Topics in Cognitive Science, 0, , .	1.9	0
3172	Detection of long-range correlation causing multifractality in H time series of geomagnetic field over the Northern Hemisphere during quiet geomagnetic conditions. Advances in Space Research, 2024, 73, 5098-5113.	2.6	0
3173	Heart rate dynamics and asymmetry during sympathetic activity stimulation and post-stimulation recovery in ski mountaineersâ€”a pilot exploratory study. Frontiers in Sports and Active Living, 0, 6, .	1.8	0
3174	Monitoring autonomic responses in Parkinsonâ€™s disease individuals: non-linear and chaotic global metrics of heart rate variability. International Journal of Neuroscience, 0, , 1-11.	1.6	0
3175	Combining detrended cross-correlation analysis with Riemannian geometry-based classification for improved brain-computer interface performance. Frontiers in Neuroscience, 0, 18, .	2.8	0
3176	Assessing Motor Variability during Squat: The Reliability of Inertial Devices in Resistance Training. Sensors, 2024, 24, 1951.	3.8	0
3177	Dietary restriction modulates ultradian rhythms and autocorrelation properties in mice behavior. Communications Biology, 2024, 7, .	4.4	0
3179	Complexity synchronization in emergent intelligence. Scientific Reports, 2024, 14, .	3.3	0
3180	Investigating the Loess Plateauâ€™s coevolution of precipitation and natural vegetation cover. Environmental Earth Sciences, 2024, 83, .	2.7	0