

Heart rate variability: Standards of measurement, physiological use

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Assessment of the Dysautonomia Presence in Parkinson disease through Cardiovascular Signal Analysis. Revista Mexicana De Ingenieria Biomedica, 2017, 38, 141-154.	0.1	0
3	Vocalization of heart rate variability. , 0, , .		0
4	Heart rate variability measurements during exercise test may improve the diagnosis of ischemic heart disease. , 0, , .		2
5	Robust extraction of autonomous nervous profile using a non-invasive method. , 0, , .		0
6	Diagnostic value of combined parameters derived from ambulatory electrocardiography for detecting coronary artery disease in the chest pain patients. Pakistan Journal of Medical Sciences, 1969, 30, 1331-5.	0.3	6
7	Heart rate variability. Journal of Electrocardiology, 1995, 28, 245-251.	0.4	13
8	Heart rate variability:Two eras of investigation. Journal of Cardiac Failure, 1996, 2, 193-196.	0.7	1
9	Postural tachycardia syndrome: time frequency mapping. Journal of the Autonomic Nervous System, 1996, 61, 313-320.	1.9	30
10	Effects of metronome breathing on the assessment of autonomic control using heart rate variability. , 0, , .		0
11	Comparison of autoregressive and Fourier transform based techniques for estimating RR interval spectra. , 0, , .		6
12	Aldosterone blockade reduces vascular collagen turnover, improves heart rate variability and reduces early morning rise in heart rate in heart failure patients. Cardiovascular Research, 1997, 35, 30-34.	1.8	289
13	Effects of physical training on heart rate variability in diabetic patients with various degrees of cardiovascular autonomic neuropathy. Cardiovascular Research, 1997, 34, 206-214.	1.8	95
14	Calcium antagonist treatment, sympathetic activity and platelet function. European Heart Journal, 1997, 18, 36-50.	1.0	37
15	Combining neuro-fuzzy and chaos methods for intelligent time series analysis-case study of heart rate variability. , 0, , .		3
16	Improved interpolation of unevenly sampled heart rate signals. , 0, , .		5
17	Heart Rate Variability in Patients with Daytime Sleepiness Suspected of Having Sleep Apnoea Syndrome: A Receiver-Operating Characteristic Analysis. Clinical Science, 1997, 92, 335-343.	1.8	27
18	The Catastrophe of Measurement Error in Heart Rate Variability. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 19-24.	0.4	0
19	Autonomic Function Assessment using Analysis of Heart Rate Variability. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 13-18.	0.4	0

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20	The influence of QRS width on the outcome of heart rate variability. , 0, , .		0
21	Heart rate variability: measurement error or chaos. , 0, , .		1
22	Nonlinear mechanisms of cardiovascular control: we know they're there, but can we see them?. , 0, , .		2
23	Heart-rate variability in chronic traumatic brain injury. <i>Brain Injury</i> , 1997, 11, 445-453.	0.6	76
24	Heart rate variability as an index of autonomic heart regulation in acute myocardial infarction patients. , 0, , .		2
25	A comparison between the peak ear pulse derivative and the R-R interval variabilities. , 0, , .		0
26	Quantitative beat-to-beat analysis of heart rate dynamics during dipyridamole echocardiographic test [ECG analysis]. , 0, , .		1
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28	Comparison between iodine 123 metaiodobenzylguanidine scintigraphy and heart rate variability for the assessment of cardiac sympathetic activity in mild to moderate heart failure. <i>American Heart Journal</i> , 1997, 134, 456-458.	1.2	21
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1945	Hilbert-Huang Transform for Analysis of Heart Rate Variability in Cardiac Health. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2011, 8, 1557-1567.	1.9	69
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1948	Cardiovascular autonomic responses to head-up tilt in gestational hypertension and normal pregnancy. Blood Pressure, 2011, 20, 84-91.	0.7	8
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1987	The Utility of the Small Rodent Electrocardiogram in Toxicology. <i>Toxicological Sciences</i> , 2011, 121, 11-30.	1.4	89
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2034	Cyclical modulation of human ventricular repolarization by respiration. <i>Frontiers in Physiology</i> , 2012, 3, 379.	1.3	25

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2038	Heart rate variability changes at 2400 m altitude predicts acute mountain sickness on further ascent at 3000â€“4300 m altitudes. <i>Frontiers in Physiology</i> , 2012, 3, 336.	1.3	38
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2041	Autonomic Modulation Following Exercise is Impaired in HIV Patients. <i>International Journal of Sports Medicine</i> , 2012, 33, 320-324.	0.8	13
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2048	Electrophysiological efficacy of Epicor high-intensity focused ultrasound. <i>European Journal of Cardio-thoracic Surgery</i> , 2012, 42, 129-134.	0.6	18
2049	Blood Pressure Responses to Acute and Chronic Exercise Are Related in Prehypertension. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 1644-1652.	0.2	175
2050	Linear and nonlinear measures of fetal heart rate patterns evaluated on very short fetal magnetocardiograms. <i>Physiological Measurement</i> , 2012, 33, 1563-1583.	1.2	12
2051	Why excessive sleepiness may persist in OSA patients receiving adequate CPAP treatment. <i>European Respiratory Journal</i> , 2012, 39, 227-228.	3.1	1
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2054	Cardiorespiratory coupling during sleep in difficult-to-control asthmatic patients. , 2012, 2012, 3652-5.		2
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2058	Spectral and coherence analysis of the variabilities of heart rate, stroke volume, and systolic blood pressure in exercise stress tests. , 2012, , .		1
2059	Doseâ€ response effects of exercise training on the subjective sleep quality of postmenopausal women: exploratory analyses of a randomised controlled trial. <i>BMJ Open</i> , 2012, 2, e001044.	0.8	71
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2065	Sleep-wake and circadian-dependent variation of cardiorespiratory coherence. , 2012, 2012, 3817-20.		3
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2067	Proposal of sleep-promoting robot using vibratory pressure and sound stimulation. , 2012, , .		0
2068	Preliminary analysis of physiological changes of nursing students during training. , 2012, 2012, 3772-5.		4
2070	Azelinidipine attenuates glomerular damage in Dahl salt-sensitive rats by suppressing sympathetic nerve activity. <i>Hypertension Research</i> , 2012, 35, 348-355.	1.5	17
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2073	Impact of Pubertal Development and Physical Activity on Heart Rate Variability in Overweight and Obese Children in Taiwan. <i>Journal of School Nursing</i> , 2012, 28, 284-290.	0.9	22
2074	Predictors of heart rate variability and its prognostic significance in chronic kidney disease. <i>Nephrology Dialysis Transplantation</i> , 2012, 27, 700-709.	0.4	103
2075	Increased heart rate variability during nondirective meditation. <i>European Journal of Preventive Cardiology</i> , 2012, 19, 773-780.	0.8	45
2076	Diabetic Autonomic Imbalance and Glycemic Variability. <i>Journal of Diabetes Science and Technology</i> , 2012, 6, 1207-1215.	1.3	59
2077	Brazilian Longitudinal Study of Adult Health (ELSA-Brasil): Objectives and Design. <i>American Journal of Epidemiology</i> , 2012, 175, 315-324.	1.6	558
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2080	The Study of Spectral Analysis of Heart Rate Variability in Different Blood Pressure Types in Euvolemic Peritoneal Dialysis Patients. <i>Renal Failure</i> , 2012, 34, 722-726.	0.8	3
2081	A motion-sensing enabled personalized exercise system for cardiac rehabilitation. , 2012, , .		3
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2084	Assessment of Maternal Heart-Rate Variability during Labor Using Wavelet-Based Power Spectral Analysis. <i>Gynecologic and Obstetric Investigation</i> , 2012, 74, 35-40.	0.7	10
2085	Influence of Antipsychotic Agents on Heart Rate Variability in Male WKY Rats: Implications for Cardiovascular Safety. <i>Neuropsychobiology</i> , 2012, 65, 216-226.	0.9	6
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2087	No relation between coronary artery disease or electrocardiographic markers of disease in middle age and prenatal exposure to the Dutch famine of 1944-5. <i>Heart</i> , 2012, 98, 1653-1659.	1.2	33
2088	Human Embryonic and Induced Pluripotent Stem Cell-Derived Cardiomyocytes Exhibit Beat Rate Variability and Power-Law Behavior. <i>Circulation</i> , 2012, 125, 883-893.	1.6	114
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2092	Changes in Heart Rate Variability of Depressed Patients after Electroconvulsive Therapy. <i>Cardiovascular Psychiatry and Neurology</i> , 2012, 2012, 1-8.	0.8	5
2093	The Effect of Gag Reflex on Cardiac Sympatovagal Tone. <i>Oman Medical Journal</i> , 2012, 27, 249-250.	0.3	6
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2098	Spectral analysis of HRV in the assessment of autonomic function on normal subject. , 2012, , .		0
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2102	Neuro-industrial engineering: the new stage of modern IE - from the human-oriented perspective. <i>International Journal of Services Operations and Informatics</i> , 2012, 7, 150.	0.2	7
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2449	Cardiovascular autonomic dysfunction in non-obese diabetic mice. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 177, 143-147.	1.4	7
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2469	Outcome of patients with normal and decreased heart rate variability after coronary artery bypass grafting surgery. <i>International Journal of Cardiology</i> , 2013, 166, 516-518.	0.8	30
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2935	Symbolic dynamic and frequency analysis in foetal monitoring. , 2014, , .		34
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2948	Natural resistance: Exposure to nature and self-regulation, mood, and physiology after ego-depletion. <i>Journal of Environmental Psychology</i> , 2014, 40, 167-178.	2.3	86
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3827	Mortality salience in virtual reality experiences and its effects on users' attitudes towards risk. <i>International Journal of Human Computer Studies</i> , 2017, 101, 10-22.	3.7	47
3828	Cardiac Autonomic Dysfunction and Incidence of Atrial Fibrillation. <i>Journal of the American College of Cardiology</i> , 2017, 69, 291-299.	1.2	114
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3833	Captopril does not Potentiate Post-Exercise Hypotension: A Randomized Crossover Study. <i>International Journal of Sports Medicine</i> , 2017, 38, 270-277.	0.8	14
3834	The role of autonomic nervous system in susceptibility and resilience to stress. <i>Current Opinion in Behavioral Sciences</i> , 2017, 14, 102-107.	2.0	11
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3861	The relationship between right ventricular deformation and heart rate variability in asymptomatic diabetic patients. <i>Journal of Diabetes and Its Complications</i> , 2017, 31, 1152-1157.	1.2	9
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3867	Inducing unconscious stress: Cardiovascular activity in response to subliminal presentation of threatening and neutral words. <i>Psychophysiology</i> , 2017, 54, 1498-1511.	1.2	7
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3871	The Spectrum of Ambulatory Electrocardiographic Monitoring. <i>Heart Lung and Circulation</i> , 2017, 26, 1160-1174.	0.2	11
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3883	Genome-wide association study of heart rate and its variability in Hispanic/Latino cohorts. <i>Heart Rhythm</i> , 2017, 14, 1675-1684.	0.3	18
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3898	Relaxation with Immersive Natural Scenes Presented Using Virtual Reality. <i>Aerospace Medicine and Human Performance</i> , 2017, 88, 520-526.	0.2	211
3899	Analysis of heart rate variability and risk factors for SUDEP in patients with drug-resistant epilepsy. <i>Epilepsy and Behavior</i> , 2017, 71, 60-64.	0.9	38
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3907	Children's behavioral inhibition and anxiety disorder symptom severity: The role of individual differences in respiratory sinus arrhythmia. <i>Behaviour Research and Therapy</i> , 2017, 93, 38-46.	1.6	15
3908	Heart rate variability and cordance in rapid eye movement sleep as biomarkers of depression and treatment response. <i>Journal of Psychiatric Research</i> , 2017, 92, 64-73.	1.5	21
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3912	Repeated Measurements of Markers of Autonomic Tone Over a Training Season in Eventing Horses. <i>Journal of Equine Veterinary Science</i> , 2017, 53, 38-44.	0.4	7
3914	Flexible parasympathetic responses to sadness facilitate spontaneous affect regulation. <i>Psychophysiology</i> , 2017, 54, 1054-1069.	1.2	36
3915	Carotid intima-media thickness is associated with media rather than intima thickness. <i>Atherosclerosis</i> , 2017, 261, 169-171.	0.4	6
3916	Heart rate variability parameters in horses distinguish atrial fibrillation from sinus rhythm before and after successful electrical cardioversion. <i>Equine Veterinary Journal</i> , 2017, 49, 723-728.	0.9	20
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3930	Evaluation of cognitive behavior among deaf subjects with video game as intervention. <i>Cognitive Systems Research</i> , 2017, 42, 42-57.	1.9	8
3931	Autonomic function in adults with allergic rhinitis and its association with disease severity and duration. <i>Annals of Allergy, Asthma and Immunology</i> , 2017, 118, 174-178.	0.5	9
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3933	A biological perspective on differences and similarities between burnout and depression. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 73, 112-122.	2.9	35
3934	Estimation of blood pressure variability during orthostatic test using instantaneous photoplethysmogram frequency and pulse arrival time. <i>Biomedical Signal Processing and Control</i> , 2017, 32, 82-89.	3.5	9
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3937	Oscillatory patterns in heart rate variability and complexity: A meta-analysis. <i>Biomedical Signal Processing and Control</i> , 2017, 33, 66-71.	3.5	3
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3943	Heart rate turbulence after ventricular premature beats in healthy Doberman pinschers and those with dilated cardiomyopathy. <i>Journal of Veterinary Cardiology</i> , 2017, 19, 421-432.	0.3	6
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3951	The autonomic nervous system as a therapeutic target in heart failure: a scientific position statement from the Translational Research Committee of the Heart Failure Association of the European Society of Cardiology. <i>European Journal of Heart Failure</i> , 2017, 19, 1361-1378.	2.9	115
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3954	Improved detection of congestive heart failure via probabilistic symbolic pattern recognition and heart rate variability metrics. <i>International Journal of Medical Informatics</i> , 2017, 108, 55-63.	1.6	29
3955	An investigation of fetal behavioural states during maternal sleep in healthy late gestation pregnancy: an observational study. <i>Journal of Physiology</i> , 2017, 595, 7441-7450.	1.3	31
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3957	Effect of chewing or compressing food on autonomic nervous activity in older adults. <i>Gerodontology</i> , 2017, 34, 434-440.	0.8	13
3958	Impairment of heart rhythm complexity in patients with drug-resistant epilepsy: An assessment with multiscale entropy analysis. <i>Epilepsy Research</i> , 2017, 138, 11-17.	0.8	9
3959	Cardiac Autonomic Dysfunction in Offspring of Hypertensive Parents During Exercise. <i>International Journal of Sports Medicine</i> , 2017, 38, 1105-1110.	0.8	6
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3964	Simultaneous monitoring of maternal and fetal heart rate variability during labor in relation with fetal gender. <i>Developmental Psychobiology</i> , 2017, 59, 832-839.	0.9	8
3965	Plastics and cardiovascular health: phthalates may disrupt heart rate variability and cardiovascular reactivity. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 313, H1044-H1053.	1.5	50
3966	Physiological Markers of Interpersonal Stress Generation in Depression. <i>Clinical Psychological Science</i> , 2017, 5, 911-929.	2.4	12
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3969	Peripheral physiological responses to subliminally presented negative affective stimuli: A systematic review. <i>Biological Psychology</i> , 2017, 129, 131-153.	1.1	32
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3971	Pain Prediction From ECG in Vascular Surgery. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2017, 5, 1-10.	2.2	11
3972	Quality Assessment of Interaction Techniques in Immersive Virtual Environments Using Physiological Measures. , 2017, , .		0
3973	Design and implementation of a real time stress monitoring system with the help of ECG using Matlab tool. , 2017, , .		4
3974	Face cooling increases blood pressure during central hypovolemia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 313, R594-R600.	0.9	10
3975	Heart Rate Variability Analysis with the R package RHRV. <i>Use R!</i> , 2017, , .	0.3	60
3976	Inter-individual differences in heart rate variability are associated with inter-individual differences in mind-reading. <i>Scientific Reports</i> , 2017, 7, 11557.	1.6	36
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4328	Effects of Remote Ischaemic Conditioning on Heart Rate Variability and Cardiac Function in Patients With Mild Ischaemic Heart Failure. <i>Heart Lung and Circulation</i> , 2018, 27, 477-483.	0.2	18

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4332	BioPad: Leveraging off-the-Shelf Video Games for Stress Self-Regulation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 47-55.	3.9	17
4333	Validation of Heart Rate Monitor Polar RS800 for Heart Rate Variability Analysis During Exercise. <i>Journal of Strength and Conditioning Research</i> , 2018, 32, 716-725.	1.0	95
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4335	Advances in Affective and Pleasurable Design. <i>Advances in Intelligent Systems and Computing</i> , 2018, , .	0.5	2
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4352	Acute effects of whole body vibration on heart rate variability in elderly people. <i>Journal of Bodywork and Movement Therapies</i> , 2018, 22, 618-621.	0.5	13
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4355	Effect of spontaneous saliva swallowing on short-term heart rate variability (HRV) and reliability of <sc>HRV</sc> analysis. <i>Clinical Physiology and Functional Imaging</i> , 2018, 38, 710-717.	0.5	5
4356	Cognitive Performance Enhancement: Do Biofeedback and Neurofeedback Work?. <i>Journal of Cognitive Enhancement: Towards the Integration of Theory and Practice</i> , 2018, 2, 12-42.	0.8	18
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4358	The impact of sleep disordered breathing on cardiovascular health in overweight children. <i>Sleep Medicine</i> , 2018, 41, 58-68.	0.8	25
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4372	Ambulatory blood pressure results and heart rate variability in patients with premature ventricular contractions. <i>Clinical and Experimental Hypertension</i> , 2018, 40, 251-256.	0.5	16
4373	Autonomic function and pressure pain threshold following thoracic mobilization in asymptomatic subjects: A randomized controlled trial. <i>Journal of Bodywork and Movement Therapies</i> , 2018, 22, 313-320.	0.5	13
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4377	Cortical Structures Associated With Human Blood Pressure Control. <i>JAMA Neurology</i> , 2018, 75, 194.	4.5	52
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4382	Evidence of reduced parasympathetic autonomic regulation in inflammatory joint disease: A meta-analyses study. <i>Seminars in Arthritis and Rheumatism</i> , 2018, 48, 134-140.	1.6	22
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4403	Converging evidence that subliminal evaluative conditioning does not affect self-esteem or cardiovascular activity. <i>Stress and Health</i> , 2018, 34, 235-246.	1.4	8
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4411	The Relation of Parental Emotion Regulation to Child Autism Spectrum Disorder Core Symptoms: The Moderating Role of Child Cardiac Vagal Activity. <i>Frontiers in Psychology</i> , 2018, 9, 2480.	1.1	4
4412	Remote Decision Support System for Diagnosis of the Arterial Hypertension. , 2018, , .		0
4413	Novel Algorithms to Monitor Continuous Cardiac Activity with a Video Camera. , 2018, , .		1
4414	Emotion Inference of Game Users with Heart Rate Wristbands and Artificial Neural Networks. , 2018, , .		1
4415	Influence of neural mobilization in the sympathetic slump position on the behavior of the autonomic nervous system. <i>Research on Biomedical Engineering</i> , 2018, 34, 329-336.	1.5	3
4416	Obstructive Sleep Apnea Detection Using Lomb-Scargle Periodogram Method. , 2018, , .		0
4417	Autonomic influences related to frequent ventricular premature beats in patients without structural heart disease. <i>Medicine (United States)</i> , 2018, 97, e11489.	0.4	12
4418	Regression Modelling for Stress Detection in Humans by assessing most prominent Thermal Signature. , 2018, , .		1
4419	Positive Effects of Diaphragmatic Breathing on Physiological Stress Reactivity in Varsity Athletes. <i>Journal of Clinical Sport Psychology</i> , 2018, 12, 27-38.	0.6	14

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4421	Traffic-Related Particulate Matter and Cardiometabolic Syndrome: A Review. <i>Atmosphere</i> , 2018, 9, 336.	1.0	27
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4425	The Application of Motor Imagery to Neurorehabilitation. , 0, , .		3
4427	Exploring the Usage of Commercial Bio-Sensors for Multitasking Detection. , 2018, , .		3
4428	Evaluation of emotional excitation during standardized endotracheal intubation in simulated conditions. <i>Annals of Intensive Care</i> , 2018, 8, 117.	2.2	6
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4433	Method and instrumentation for the study of individual human sensitivity to microwave irradiation in the frequency range of modern mobile communications. <i>Procedia Computer Science</i> , 2018, 145, 506-511.	1.2	0
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4435	Study to Determine the Effectiveness of Deep Learning Classifiers for ECG Based Driver Fatigue Classification. , 2018, , .		18
4436	Short-term autonomic nervous system and experiential responses during a labyrinth walk. <i>Cogent Psychology</i> , 2018, 5, 1495036.	0.6	3
4437	Effect of Septoplasty on the Heart Rate Variability in Patients With Nasal Septum Deviation. <i>Journal of Craniofacial Surgery</i> , 2018, 29, 445-448.	0.3	9
4438	Use of Virtual Reality for the Evaluation of Human-Robot Interaction Systems in Complex Scenarios. , 2018, , .		15

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4442	A New Sympathovagal Balance Index from Electrodermal Activity and Instantaneous Vagal Dynamics: A Preliminary Cold Pressor Study. , 2018, 2018, 3068-3071.		11
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4456	An Exploration of Behind-the-Ear ECG Signals From a Single Ear Using Inkjet Printed Conformal Tattoo Electrodes. , 2018, 2018, 1283-1286.		9

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4473	Influence of polypharmacy on heart rate variability in older adults at the Hiroshima Atomic Bomb Survivors Recuperation Research Center, Japan. PLoS ONE, 2018, 13, e0209081.	1.1	3
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4888	Assessment of high coherent states using heart rate variability, pulse transit time and respiratory signals. <i>Biomedical Physics and Engineering Express</i> , 2019, 5, 045008.	0.6	0
4889	Cardiac glial cells release neurotrophic S100B upon catheter-based treatment of atrial fibrillation. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	57
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5567	Relation of vascular dilator function and cardiac autonomic function with coronary angiography findings in patients with non-ST segment elevation acute coronary syndrome. <i>European Heart Journal: Acute Cardiovascular Care</i> , 2021, 10, 164-169.	0.4	2
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