

Vlasta Bari

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

1,912
citations

279487

23
h-index

301761

39
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124
all docs

124
docs citations

124
times ranked

1424
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-stationarities significantly distort short-term spectral, symbolic and entropy heart rate variability indices. <i>Physiological Measurement</i> , 2011, 32, 1775-1786.	1.2	151
2	Accounting for Respiration is Necessary to Reliably Infer Granger Causality From Cardiovascular Variability Series. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 832-841.	2.5	103
3	Model-based assessment of baroreflex and cardiopulmonary couplings during graded head-up tilt. <i>Computers in Biology and Medicine</i> , 2012, 42, 298-305.	3.9	97
4	Effect of Age on Complexity and Causality of the Cardiovascular Control: Comparison between Model-Based and Model-Free Approaches. <i>PLoS ONE</i> , 2014, 9, e89463.	1.1	86
5	Model-based causal closed-loop approach to the estimate of baroreflex sensitivity during propofol anesthesia in patients undergoing coronary artery bypass graft. <i>Journal of Applied Physiology</i> , 2013, 115, 1032-1042.	1.2	83
6	Autonomic Control of Heart Rate and QT Interval Variability Influences Arrhythmic Risk in Long QT Syndrome Type 1. <i>Journal of the American College of Cardiology</i> , 2015, 65, 367-374.	1.2	70
7	Short-term complexity indexes of heart period and systolic arterial pressure variabilities provide complementary information. <i>Journal of Applied Physiology</i> , 2012, 113, 1810-1820.	1.2	68
8	Cardiovascular control and time domain Granger causality: insights from selective autonomic blockade. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120161.	1.6	62
9	K-nearest-neighbor conditional entropy approach for the assessment of the short-term complexity of cardiovascular control. <i>Physiological Measurement</i> , 2013, 34, 17-33.	1.2	52
10	Simultaneous Characterization of Sympathetic and Cardiac Arms of the Baroreflex through Sequence Techniques during Incremental Head-Up Tilt. <i>Frontiers in Physiology</i> , 2016, 7, 438.	1.3	51
11	Conditional Self-Entropy and Conditional Joint Transfer Entropy in Heart Period Variability during Graded Postural Challenge. <i>PLoS ONE</i> , 2015, 10, e0132851.	1.1	49
12	Are Nonlinear Model-Free Conditional Entropy Approaches for the Assessment of Cardiac Control Complexity Superior to the Linear Model-Based One?. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 1287-1296.	2.5	47
13	Calibrated variability of muscle sympathetic nerve activity during graded head-up tilt in humans and its link with noradrenaline data and cardiovascular rhythms. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R1134-R1143.	0.9	43
14	Frequency domain assessment of the coupling strength between ventricular repolarization duration and heart period during graded head-up tilt. <i>Journal of Electrocardiology</i> , 2011, 44, 662-668.	0.4	41
15	Effect of the Postural Challenge on the Dependence of the Cardiovascular Control Complexity on Age. <i>Entropy</i> , 2014, 16, 6686-6704.	1.1	40
16	Nonlinear effects of respiration on the crosstalk between cardiovascular and cerebrovascular control systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150179.	1.6	40
17	Cerebrovascular and cardiovascular variability interactions investigated through conditional joint transfer entropy in subjects prone to postural syncope. <i>Physiological Measurement</i> , 2017, 38, 976-991.	1.2	38
18	Multiscale Complexity Analysis of the Cardiac Control Identifies Asymptomatic and Symptomatic Patients in Long QT Syndrome Type 1. <i>PLoS ONE</i> , 2014, 9, e93808.	1.1	35

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19	On the Relevance of Computing a Local Version of Sample Entropy in Cardiovascular Control Analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 623-631.	2.5	35
20	Effects of mechanical stimulation of the feet on gait and cardiovascular autonomic control in Parkinson's disease. <i>Journal of Applied Physiology</i> , 2014, 116, 495-503.	1.2	31
21	Univariate and multivariate conditional entropy measures for the characterization of short-term cardiovascular complexity under physiological stress. <i>Physiological Measurement</i> , 2018, 39, 014002.	1.2	31
22	Disentangling cardiovascular control mechanisms during head-down tilt via joint transfer entropy and self-entropy decompositions. <i>Frontiers in Physiology</i> , 2015, 6, 301.	1.3	29
23	Baroreflex sensitivity and outcomes following coronary surgery. <i>PLoS ONE</i> , 2017, 12, e0175008.	1.1	26
24	Conditional symbolic analysis detects nonlinear influences of respiration on cardiovascular control in humans. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140096.	1.6	24
25	Limits of permutation-based entropies in assessing complexity of short heart period variability. <i>Physiological Measurement</i> , 2015, 36, 755-765.	1.2	23
26	Peripheral Resistance Baroreflex During Incremental Bicycle Ergometer Exercise: Characterization and Correlation With Cardiac Baroreflex. <i>Frontiers in Physiology</i> , 2018, 9, 688.	1.3	22
27	Separating arterial pressure increases and decreases in assessing cardiac baroreflex sensitivity via sequence and bivariate phase-rectified signal averaging techniques. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 1241-1252.	1.6	19
28	Cardiac baroreflex hysteresis is one of the determinants of the heart period variability asymmetry. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019, 317, R539-R551.	0.9	19
29	Characterization of the Asymmetry of the Cardiac and Sympathetic Arms of the Baroreflex From Spontaneous Variability During Incremental Head-Up Tilt. <i>Frontiers in Physiology</i> , 2019, 10, 342.	1.3	19
30	Mechanical ventilatory modes and cardioventilatory phase synchronization in acute respiratory failure patients. <i>Physiological Measurement</i> , 2017, 38, 895-911.	1.2	18
31	A network physiology approach to the assessment of the link between sinoatrial and ventricular cardiac controls. <i>Physiological Measurement</i> , 2017, 38, 1472-1489.	1.2	18
32	Assessing multiscale complexity of short heart rate variability series through a model-based linear approach. <i>Chaos</i> , 2017, 27, 093901.	1.0	18
33	Association between autonomic control indexes and mortality in subjects admitted to intensive care unit. <i>Scientific Reports</i> , 2018, 8, 3486.	1.6	18
34	Assessing the strength of cardiac and sympathetic baroreflex controls via transfer entropy during orthostatic challenge. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160290.	1.6	16
35	Comparison of Causal and Non-causal Strategies for the Assessment of Baroreflex Sensitivity in Predicting Acute Kidney Dysfunction After Coronary Artery Bypass Grafting. <i>Frontiers in Physiology</i> , 2019, 10, 1319.	1.3	16
36	Dynamic cerebrovascular autoregulation in patients prone to postural syncope: Comparison of techniques assessing the autoregulation index from spontaneous variability series. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2022, 237, 102920.	1.4	16

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37	Information domain analysis of the spontaneous baroreflex during pharmacological challenges. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 178, 67-75.	1.4	15
38	Complexity analyses show two distinct types of nonlinear dynamics in short heart period variability recordings. <i>Frontiers in Physiology</i> , 2015, 6, 71.	1.3	15
39	Quantifying Net Synergy/Redundancy of Spontaneous Variability Regulation via Predictability and Transfer Entropy Decomposition Frameworks. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 2628-2638.	2.5	15
40	Coherence analysis overestimates the role of baroreflex in governing the interactions between heart period and systolic arterial pressure variabilities during general anesthesia. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 178, 83-88.	1.4	14
41	Effect of variations of the complexity of the target variable on the assessment of Wiener's Granger causality in cardiovascular control studies. <i>Physiological Measurement</i> , 2016, 37, 276-290.	1.2	14
42	Assessing the evolution of redundancy/synergy of spontaneous variability regulation with age. <i>Physiological Measurement</i> , 2017, 38, 940-958.	1.2	14
43	Paced Breathing Increases the Redundancy of Cardiorespiratory Control in Healthy Individuals and Chronic Heart Failure Patients. <i>Entropy</i> , 2018, 20, 949.	1.1	14
44	Causality analysis reveals the link between cerebrovascular control and acute kidney dysfunction after coronary artery bypass grafting. <i>Physiological Measurement</i> , 2019, 40, 064006.	1.2	14
45	Concomitant Evaluation of Heart Period and QT Interval Variability Spectral Markers to Typify Cardiac Control in Humans and Rats. <i>Frontiers in Physiology</i> , 2019, 10, 1478.	1.3	14
46	Categorizing the Role of Respiration in Cardiovascular and Cerebrovascular Variability Interactions. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 2065-2076.	2.5	14
47	Characterization of the cardiovascular control during modified head-up tilt test in healthy adult humans. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 179, 166-169.	1.4	13
48	Model-based directional analysis of cardiovascular variability identifies patients developing atrial fibrillation after coronary artery bypass grafting. <i>International Journal of Cardiology</i> , 2018, 258, 97-102.	0.8	13
49	The combined effects of the microcirculatory status and cardiopulmonary bypass on platelet count and function during cardiac surgery. <i>Clinical Hemorheology and Microcirculation</i> , 2018, 70, 327-337.	0.9	13
50	Low-Pass Filtering Approach via Empirical Mode Decomposition Improves Short-Scale Entropy-Based Complexity Estimation of QT Interval Variability in Long QT Syndrome Type 1 Patients. <i>Entropy</i> , 2014, 16, 4839-4854.	1.1	12
51	From neurovascular coupling to neurovascular cascade: a study on neural, autonomic and vascular transients in attention. <i>Physiological Measurement</i> , 2012, 33, 1379-1397.	1.2	10
52	Optimizing phase variability threshold for automated synchrogram analysis of cardiorespiratory interactions in amateur cyclists. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200251.	1.6	10
53	Model-free causality analysis of cardiovascular variability detects the amelioration of autonomic control in Parkinson's disease patients undergoing mechanical stimulation. <i>Physiological Measurement</i> , 2014, 35, 1397-1408.	1.2	9
54	Impact of propofol general anesthesia on cardiovascular and cerebrovascular closed loop variability interactions. <i>Biomedical Signal Processing and Control</i> , 2021, 68, 102735.	3.5	9

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55	Evaluation of the impact of surgical aortic valve replacement on short-term cardiovascular and cerebrovascular controls through spontaneous variability analysis. PLoS ONE, 2020, 15, e0243869.	1.1	9
56	Monitoring the Evolution of Asynchrony between Mean Arterial Pressure and Mean Cerebral Blood Flow via Cross-Entropy Methods. Entropy, 2022, 24, 80.	1.1	9
57	Study of neurovascular and autonomic response in a divided attention test by means of EEG, ECG and NIRS signals. , 2011, 2011, 1403-6.		7
58	Lack of association between heart period variability asymmetry and respiratory sinus arrhythmia in healthy and chronic heart failure individuals. PLoS ONE, 2021, 16, e0247145.	1.1	7
59	Comparison between probabilistic and Wienerâ€™Granger causality in assessing modifications of the cardiac baroreflex control with age. Physiological Measurement, 2018, 39, 104004.	1.2	6
60	Evaluation of the correlation between cardiac and sympathetic baroreflex sensitivity before orthostatic syncope. , 2015, 2015, 2063-6.		5
61	Comparison of symbolization strategies for complexity assessment of spontaneous variability in individuals with signs of cardiovascular control impairment. Biomedical Signal Processing and Control, 2020, 62, 102128.	3.5	5
62	Refined multiscale entropy analysis of heart period and QT interval variabilities in long QT syndrome type-1 patients. , 2013, 2013, 5554-7.		4
63	Entropy-based complexity of the cardiovascular control in Parkinson disease: Comparison between binning and k-nearest-neighbor approaches. , 2013, 2013, 5045-8.		4
64	Directionality in cardiovascular variability interactions during head-down tilt test. , 2014, 2014, 6008-11.		4
65	A Refined Multiscale Self-Entropy Approach for the Assessment of Cardiac Control Complexity: Application to Long QT Syndrome Type 1 Patients. Entropy, 2015, 17, 7768-7785.	1.1	4
66	General anesthesia reduces the information exchange between heart and circulation. , 2015, 2015, 4029-32.		4
67	Cardiovascular control indexes in amyotrophic lateral sclerosis patients and their relation with clinical markers. , 2015, 2015, 2055-8.		4
68	Multiscale Decomposition of Cardiovascular and Cardiorespiratory Information Transfer under General Anesthesia*. , 2018, 2018, 4607-4610.		4
69	Information-domain method for the quantification of the complexity of the sympathetic baroreflex regulation in healthy subjects and amyotrophic lateral sclerosis patients. Physiological Measurement, 2019, 40, 034004.	1.2	4
70	Are Strategies Favoring Pattern Matching a Viable Way to Improve Complexity Estimation Based on Sample Entropy?. Entropy, 2020, 22, 724.	1.1	4
71	Granger causality in cardiovascular variability series: Comparison between model-based and model-free approaches. , 2012, 2012, 3684-7.		3
72	Semi-quantitative evaluation of signal intensity and contrast-enhancement in Modic changes. European Radiology Experimental, 2017, 1, 5.	1.7	3

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73	Short-term multiscale complexity analysis of cardiovascular variability improves low cardiac output syndrome risk stratification after coronary artery bypass grafting. <i>Physiological Measurement</i> , 2019, 40, 044001.	1.2	3
74	Working in the Office and Smart Working Differently Impact on the Cardiac Autonomic Control. , 2021, , .		3
75	Correlation Between Baroreflex Sensitivity and Cerebral Autoregulation Index in Healthy Subjects. , 2021, , .		3
76	Exploring metrics for the characterization of the cerebral autoregulation during head-up tilt and propofol general anesthesia. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2022, 242, 103011.	1.4	3
77	Cardiovascular interactions assessed via conditional joint transfer entropy in patients developing atrial fibrillation after coronary artery bypass graft surgery. , 2016, 2016, 2937-2940.		2
78	Short-Term Model-Based Multiscale Complexity Analysis of Cardiac Control Provides Complementary Information to Single-Scale Approaches. , 2018, 2018, 4848-4851.		2
79	Postoperative Modifications of Cardiovascular Control and Baroreflex Sensitivity in Patients Undergoing Surgical Aortic Valve Replacement. , 2020, , .		2
80	Complexity of Spontaneous QT Variability Unrelated to RR Variations and Respiration During Graded Orthostatic Challenge. , 0, , .		2
81	Time, frequency and information domain analysis of heart period and QT variability in asymptomatic long QT syndrome type 2 patients. , 2015, 2015, 294-7.		1
82	Evaluating the association between cardiac and peripheral resistance arms of the baroreflex. , 2017, 2017, 3114-3117.		1
83	Multiscale Complexity Analysis of Short QT Interval Variability Series Stratifies the Arrhythmic Risk of Long QT Syndrome Type 1 Patients. , 2018, , .		1
84	Assessment of the Coupling Strength of Cardiovascular Control via Joint Symbolic Analysis during Postural Challenge in Recreational Athletes. , 2019, 2019, 2011-2014.		1
85	Strength and Latency of the HP-SAP Closed Loop Variability Interactions in Subjects Prone to Develop Postural Syncope*. , 2019, 2019, 2003-2006.		1
86	Strength and Latency of Mean Cerebral Blood Flow Velocity and Mean Arterial Pressure Coupling during Propofol General Anesthesia in Subjects Undergoing Coronary Artery Bypass Graft. , 2020, , .		1
87	An Empirical Mode Decomposition Approach to Assess the Strength of Heart Period-Systolic Arterial Pressure Variability Interactions. , 2020, 2020, 2573-2576.		1
88	Complexity and Nonlinearities of Short-Term Cardiovascular and Cerebrovascular Controls after Surgical Aortic Valve Replacement. , 2020, 2020, 2569-2572.		1
89	Effects of Inspiratory Muscle Training and Postural Challenge on Cardiorespiratory Coupling in Amateur Athletes. , 2020, , .		1
90	Symbolic Analysis of Heart Period and QT Interval Variabilities in LQT1 Patients. <i>IFMBE Proceedings</i> , 2014, , 531-534.	0.2	1

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91	Propofol General Anesthesia Decreases the Coupling Strength Between Mean Arterial Blood Pressure and Mean Cerebral Blood Flow Velocity in Patients Undergoing Coronary Artery Bypass Grafting. , 0, , .		1
92	Causal Analysis Is Needed to Evaluate Cardiorespiratory Interaction Alterations in Postural Orthostatic Tachycardia Syndrome Patients. , 2021, , .		1
93	Gender Differences in Short-Term Multiscale Complexity of the Heart Rate Variability. , 2021, , .		1
94	Assessing Correlation between Heart Rate Variability Markers Based on Laguerre Expansion and Direct Measures of Sympathetic Activity during Incremental Head-up Tilt. , 2021, 2021, 5411-5414.		1
95	Role of respiration in setting causality among cardiovascular variability series. , 2011, 2011, 5923-6.		0
96	Short-term complexity of cardiovascular oscillations during orthostatic change in aging. , 2014, , .		0
97	Assessment of sympathetic baroreflex control during orthostatic challenge before and after prolonged head-down bed rest. , 2014, , .		0
98	Empirical mode decomposition approach to the estimation of cardiac baroreflex sensitivity in patients undergoing coronary artery bypass graft surgery. , 2014, , .		0
99	Comparison between permutation and coarse-grained entropy approaches for the assessment of short-term complexity of heart period variability. , 2014, , .		0
100	Filtering approach based on empirical mode decomposition improves the assessment of short scale complexity in long QT syndrome type 1 population. , 2014, 2014, 6671-4.		0
101	Baroreflex response to orthostatic challenge: Effect of aging. , 2014, , .		0
102	Wiener-Granger causality in QT-HP variability interactions. , 2015, 2015, 1781-4.		0
103	Comparison between K-nearest-neighbor approaches for conditional entropy estimation: Application to the assessment of the cardiac control in amyotrophic lateral sclerosis patients. , 2016, 2016, 2933-2936.		0
104	Towards the identification of subjects prone to develop atrial fibrillation after coronary artery bypass graft surgery via univariate and multivariate complexity analysis of heart period variability. , 2017, 2017, 3126-3129.		0
105	Impact of Nonstationarities on Short Heart Rate Variability Recordings During Obstructive Sleep Apnea. , 0, , .		0
106	Comparison between Cardiac Baroreflex Sensitivity Estimates Derived from Sequence and Phase Rectified Signal Averaging Techniques During Head-up Tilt. , 2017, , .		0
107	Comparison of Different Strategies to Assess Cardiac Baroreflex Sensitivity Based on Transfer Function Technique in Patients Undergoing General Anesthesia. , 2018, 2018, 2780-2783.		0
108	Assessing Synergy/Redundancy of Baroreflex and Non-Baroreflex Components of the Cardiac Control during Sleep. , 2019, 2019, 4953-4956.		0

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109	Cardiovascular Coupling during Postural Challenge in Athletes and Non-Athletes. , 2020, , .		0
110	On the Utility of Increasing the Number of Matches in Computing Sample Entropy over Short Cardiovascular Variability Series. , 2020, , .		0
111	Do Respiratory Sinus Arrhythmia and Respiratory Phase Durations Impact Heart Rate Variability Asymmetry in Healthy Subjects?. , 2020, , .		0
112	Stratifying the Risk of Developing Atrial Fibrillation after Coronary Artery Bypass Graft Surgery Using Heart Rate Asymmetry Indexes. , 0, , .		0
113	Asymmetry Assessment of Cardiac and Sympathetic Arms of the Baroreflex. , 0, , .		0
114	Computation of Mean Cerebral Blood Flow Velocity for the Assessment of Cerebral Autoregulation: Comparison of Different Strategies. , 0, , .		0
115	Quantifying Redundant/Synergistic Interactions between Cardiorespiratory Reflexes and Cardiac Control Mechanisms During Light-to-Moderate Bicycle Exercise. , 0, , .		0
116	Frequency Domain Heart Period and QT Interval Variability Markers Are Linked to Arrhythmic Risk in Long QT Syndrome Type 2. , 0, , .		0
117	QT Interval Variability and QT-HP Coupling Strength in Amyotrophic Lateral Sclerosis Patients. , 0, , .		0
118	QT-RR Relation Is Different in Humans and Rats. , 0, , .		0
119	Masked arterial hypertension in a 64-year-old man with primary aldosteronism. Blood Pressure, 2021, , 1-5.	0.7	0
120	Transfer Function Gain Between Heart Period and QT Variabilities Increases During Sympathetic Activation Induced by Head-up Tilt. , 2021, , .		0
121	The Magnitude of the Postural Challenge Impacts on the Exponential Decay of the Baroreflex Impulse Response. , 2021, , .		0
122	Respiration is a Confounder of the Closed Loop Relationship Between Mean Arterial Pressure and Mean Cerebral Blood Flow. , 2021, 2021, 5403-5406.		0