

Vlasta Bari

List of Articles by Year in descending order

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84

PR articles

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PR citations

344718

20

PR h-index

305005

38

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163

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2174

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296494

23

h-index

1773

citing authors

#	ARTICLE	IF	CITATIONS
1	Joint Analysis of Cardiovascular Control and Shear Wave Elastography to Determine Carotid Plaque Vulnerability. <i>Journal of Clinical Medicine</i> , 2025, 14, 648.	2.5	1
2	A model-based spectral directional approach reveals the long-term impact of COVID-19 on cardiorespiratory control and baroreflex. <i>BioMedical Engineering OnLine</i> , 2025, 24, .	2.7	5
3	The impact of stenosis treatment on the hemodynamic crosstalk between carotid arteries. <i>Scientific Reports</i> , 2025, 15, .	3.4	0
4	Cardiac autonomic profile, perceived stress and environmental comfort in healthy employees during remote and in-office work. <i>Scientific Reports</i> , 2024, 14, .	3.4	2
5	Autonomic Function and Baroreflex Control in COVID-19 Patients Admitted to the Intensive Care Unit. <i>Journal of Clinical Medicine</i> , 2024, 13, 2228.	2.5	3
6	On the validity of the state space correspondence strategy based on k-nearest neighbor cross-predictability in assessing directionality in stochastic systems: Application to cardiorespiratory coupling estimation. <i>Chaos</i> , 2024, 34, .	2.6	12
7	Impact of surgical aortic valve replacement and transcatheter aortic valve implantation on cardiovascular and cerebrovascular controls: A pilot study. <i>Physiological Reports</i> , 2024, 12, .	1.6	4
8	Pre- and Post-Operative Cognitive Assessment in Patients Undergoing Surgical Aortic Valve Replacement: Insights from the PEARL Project. <i>NeuroSci</i> , 2024, 5, 485-500.	1.9	0
9	Comparison of the impact of carotid endarterectomy and stenting on autonomic and baroreflex regulations: a one-year follow-up randomized study. <i>Scientific Reports</i> , 2024, 14, .	3.4	1
10	Characterization of cardiorespiratory coupling via a variability-based multi-method approach: Application to postural orthostatic tachycardia syndrome. <i>Chaos</i> , 2024, 34, .	2.6	5
11	Changes of the cardiac baroreflex bandwidth during postural challenges. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2023, 324, R601-R612.	2.4	10
12	On the Different Abilities of Cross-Sample Entropy and K-Nearest-Neighbor Cross-Unpredictability in Assessing Dynamic Cardiorespiratory and Cerebrovascular Interactions. <i>Entropy</i> , 2023, 25, 599.	1.7	15
13	Evaluation of cardiovascular and cerebrovascular control mechanisms in postural orthostatic tachycardia syndrome via conditional transfer entropy: the impact of the respiratory signal type. <i>Physiological Measurement</i> , 2023, 44, 064001.	2.6	11
14	Concomitant evaluation of cardiovascular and cerebrovascular controls via Geweke spectral causality to assess the propensity to postural syncope. <i>Medical and Biological Engineering and Computing</i> , 2023, 61, 3141-3157.	2.3	15
15	Characterization of cardiovascular and cerebrovascular controls via spectral causality analysis in patients undergoing surgical aortic valve replacement during a three-month follow-up. <i>Physiological Measurement</i> , 2023, 44, 094001.	2.6	10
16	The degree of engagement of cardiac and sympathetic arms of the baroreflex does not depend on the absolute value and sign of arterial pressure variations. <i>Physiological Measurement</i> , 2023, 44, 114002.	2.6	4
17	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.	3.0	29
18	Categorizing the Role of Respiration in Cardiovascular and Cerebrovascular Variability Interactions. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 2065-2076.	3.2	32

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19	Monitoring the Evolution of Asynchrony between Mean Arterial Pressure and Mean Cerebral Blood Flow via Cross-Entropy Methods. <i>Entropy</i> , 2022, 24, 80.	1.7	13
20	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.	3.0	6
21	Spectral decomposition of cerebrovascular and cardiovascular interactions in patients prone to postural syncope and healthy controls. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2022, 242, 103021.	3.0	27
22	Lack of association between heart period variability asymmetry and respiratory sinus arrhythmia in healthy and chronic heart failure individuals. <i>PLoS ONE</i> , 2021, 16, e0247145.	2.3	11
23	Impact of propofol general anesthesia on cardiovascular and cerebrovascular closed loop variability interactions. <i>Biomedical Signal Processing and Control</i> , 2021, 68, 102735.	5.0	20
24	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, .	2.5	12
25	Are Strategies Favoring Pattern Matching a Viable Way to Improve Complexity Estimation Based on Sample Entropy?. <i>Entropy</i> , 2020, 22, 724.	1.7	5
26	Comparison of symbolization strategies for complexity assessment of spontaneous variability in individuals with signs of cardiovascular control impairment. <i>Biomedical Signal Processing and Control</i> , 2020, 62, 102128.	5.0	7
27	Evaluation of the impact of surgical aortic valve replacement on short-term cardiovascular and cerebrovascular controls through spontaneous variability analysis. <i>PLoS ONE</i> , 2020, 15, e0243869.	2.3	17
28	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.	3.2	39
29	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.	2.4	26
30	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, .	2.8	26
31	Causality analysis reveals the link between cerebrovascular control and acute kidney dysfunction after coronary artery bypass grafting. <i>Physiological Measurement</i> , 2019, 40, 064006.	2.6	20
32	Information-domain method for the quantification of the complexity of the sympathetic baroreflex regulation in healthy subjects and amyotrophic lateral sclerosis patients. <i>Physiological Measurement</i> , 2019, 40, 034004.	2.6	4
33	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.	2.6	4
34	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, .	2.8	26
35	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, .	2.8	16
36	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.	2.2	19

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37	Paced Breathing Increases the Redundancy of Cardiorespiratory Control in Healthy Individuals and Chronic Heart Failure Patients. <i>Entropy</i> , 2018, 20, 949.	1.7	23
38	Comparison between probabilistic and Wiener's Granger causality in assessing modifications of the cardiac baroreflex control with age. <i>Physiological Measurement</i> , 2018, 39, 104004.	2.6	7
39	Peripheral Resistance Baroreflex During Incremental Bicycle Ergometer Exercise: Characterization and Correlation With Cardiac Baroreflex. <i>Frontiers in Physiology</i> , 2018, 9, .	2.8	23
40	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.	2.3	18
41	Association between autonomic control indexes and mortality in subjects admitted to intensive care unit. <i>Scientific Reports</i> , 2018, 8, .	3.4	19
42	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.	3.2	27
43	Mechanical ventilatory modes and cardioventilatory phase synchronization in acute respiratory failure patients. <i>Physiological Measurement</i> , 2017, 38, 895-911.	2.6	19
44	Assessing the evolution of redundancy/synergy of spontaneous variability regulation with age. <i>Physiological Measurement</i> , 2017, 38, 940-958.	2.6	15
45	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.	2.6	56
46	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.	2.5	18
47	A network physiology approach to the assessment of the link between sinoatrial and ventricular cardiac controls. <i>Physiological Measurement</i> , 2017, 38, 1472-1489.	2.6	20
48	Assessing multiscale complexity of short heart rate variability series through a model-based linear approach. <i>Chaos</i> , 2017, 27, .	2.6	22
49	Semi-quantitative evaluation of signal intensity and contrast-enhancement in Modic changes. <i>European Radiology Experimental</i> , 2017, 1, .	3.2	4
50	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.	3.2	62
51	Baroreflex sensitivity and outcomes following coronary surgery. <i>PLoS ONE</i> , 2017, 12, e0175008.	2.3	37
52	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> , 2017, 56, 1241-1252.	2.3	19
53	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, .	2.8	63
54	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.	2.5	51

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55	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.	2.4	54
56	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.	2.6	16
57	Conditional Self-Entropy and Conditional Joint Transfer Entropy in Heart Period Variability during Graded Postural Challenge. <i>PLoS ONE</i> , 2015, 10, e0132851.	2.3	63
58	Complexity analyses show two distinct types of nonlinear dynamics in short heart period variability recordings. <i>Frontiers in Physiology</i> , 2015, 6, .	2.8	16
59	Disentangling cardiovascular control mechanisms during head-down tilt via joint transfer entropy and self-entropy decompositions. <i>Frontiers in Physiology</i> , 2015, 6, .	2.8	32
60	A Refined Multiscale Self-Entropy Approach for the Assessment of Cardiac Control Complexity: Application to Long QT Syndrome Type 1 Patients. <i>Entropy</i> , 2015, 17, 7768-7785.	1.7	5
61	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.	2.3	77
62	Limits of permutation-based entropies in assessing complexity of short heart period variability. <i>Physiological Measurement</i> , 2015, 36, 755-765.	2.6	28
63	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.	2.5	27
64	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.	2.3	113
65	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.	2.3	36
66	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.	1.7	12
67	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.	2.8	39
68	Effect of the Postural Challenge on the Dependence of the Cardiovascular Control Complexity on Age. <i>Entropy</i> , 2014, 16, 6686-6704.	1.7	46
69	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.	2.6	13
70	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.	3.0	14
71	Information domain analysis of the spontaneous baroreflex during pharmacological challenges. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 178, 67-75.	3.0	16
72	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.	3.0	16

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73	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.	2.5	75
74	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.	2.8	100
75	Model-based assessment of baroreflex and cardiopulmonary couplings during graded head-up tilt. <i>Computers in Biology and Medicine</i> , 2012, 42, 298-305.	6.3	105
76	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.	3.2	112
77	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.	0.9	45
78	Non-stationarities significantly distort short-term spectral, symbolic and entropy heart rate variability indices. <i>Physiological Measurement</i> , 2011, 32, 1775-1786.	2.6	163
79	Masked arterial hypertension in a 64-year-old man with primary aldosteronism. <i>Blood Pressure</i> , 0, , 1-5.	1.7	0
80	Model-based spectral causality of cardiovascular variability interactions during head-down tilt. <i>Physiological Measurement</i> , 0, , .	2.6	5
81	Identifying and preliminary validating patient clusters in coronary artery bypass grafting: integrating autonomic function with clinical and demographic data for personalized care. <i>European Journal of Cardiovascular Nursing</i> , 0, 24, 898-910.	1.3	3
82	Evaluating directionality via cross-predictability and cloud size ratio methods: application to cerebrovascular dynamic interactions during active orthostatism. <i>European Physical Journal: Special Topics</i> , 0, , .	2.0	0
83	Assessment of cerebrovascular interactions and control in coronary artery disease patients undergoing anaesthesia through bivariate predictability measures. <i>Medical and Biological Engineering and Computing</i> , 0, , .	2.3	0
84	Amplitude symbolic analysis: a tool for the evaluation of the autonomic function complementary to traditional symbolic approach. <i>Computers in Biology and Medicine</i> , 0, 203, 111473.	6.3	0