

Andrea Marchi

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,008
citations

471509

17
h-index

454955

30
g-index

54
all docs

54
docs citations

54
times ranked

950
citing authors

#	ARTICLE	IF	CITATIONS
1	Association between autonomic control indexes and mortality in subjects admitted to intensive care unit. <i>Scientific Reports</i> , 2018, 8, 3486.	3.3	18
2	Mechanical ventilatory modes and cardioventilatory phase synchronization in acute respiratory failure patients. <i>Physiological Measurement</i> , 2017, 38, 895-911.	2.1	18
3	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.	3.4	16
4	Pulse photoplethysmographic amplitude and heart rate variability during laparoscopic cholecystectomy. <i>European Journal of Anaesthesiology</i> , 2017, 34, 526-533.	1.7	6
5	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.	4.2	47
6	Effects of laparoscopic radical prostatectomy on intraoperative autonomic nervous system control of hemodynamics. <i>Minerva Anestesiologica</i> , 2017, 83, 1265-1273.	1.0	8
7	The degree of cardiac baroreflex involvement during active standing is associated with the quality of life in fibromyalgia patients. <i>PLoS ONE</i> , 2017, 12, e0179500.	2.5	6
8	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.	2.8	51
9	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.	3.4	40
10	Cardiovascular interactions assessed via conditional joint transfer entropy in patients developing atrial fibrillation after coronary artery bypass graft surgery. , 2016, 2016, 2937-2940.		2
11	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
12	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.	1.8	43
13	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.	2.1	14
14	Cardiovascular Variability Analysis and Baroreflex Estimation in Patients with Type 2 Diabetes in Absence of Any Manifest Neuropathy. <i>PLoS ONE</i> , 2016, 11, e0148903.	2.5	32
15	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
16	Evaluation of the correlation between cardiac and sympathetic baroreflex sensitivity before orthostatic syncope. , 2015, 2015, 2063-6.		5
17	Pulse Photoplethysmographic Analysis Estimates the Sympathetic Activity Directed to Heart and Vessels. <i>Anesthesiology</i> , 2015, 123, 336-345.	2.5	15
18	Conditional Self-Entropy and Conditional Joint Transfer Entropy in Heart Period Variability during Graded Postural Challenge. <i>PLoS ONE</i> , 2015, 10, e0132851.	2.5	49

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19	Complexity analyses show two distinct types of nonlinear dynamics in short heart period variability recordings. <i>Frontiers in Physiology</i> , 2015, 6, 71.	2.8	15
20	Disentangling cardiovascular control mechanisms during head-down tilt via joint transfer entropy and self-entropy decompositions. <i>Frontiers in Physiology</i> , 2015, 6, 301.	2.8	29
21	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.	2.2	4
22	Cardiovascular parameters and neural sympathetic discharge variability before orthostatic syncope: role of sympathetic baroreflex control to the vessels. <i>Physiological Measurement</i> , 2015, 36, 633-641.	2.1	27
23	General anesthesia reduces the information exchange between heart and circulation. , 2015, 2015, 4029-32.		4
24	Wiener-Granger causality in QT-HP variability interactions. , 2015, 2015, 1781-4.		0
25	Cardiovascular control indexes in amyotrophic lateral sclerosis patients and their relation with clinical markers. , 2015, 2015, 2055-8.		4
26	Limits of permutation-based entropies in assessing complexity of short heart period variability. <i>Physiological Measurement</i> , 2015, 36, 755-765.	2.1	23
27	Univariate and bivariate symbolic analyses of cardiovascular variability differentiate general anesthesia procedures. <i>Physiological Measurement</i> , 2015, 36, 715-726.	2.1	8
28	Cardiovascular control in women with fibromyalgia syndrome: do causal methods provide nonredundant information compared with more traditional approaches?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 309, R79-R84.	1.8	14
29	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.	3.4	24
30	Influence of Gravitational Sympathetic Stimulation on the Surgical Plethysmographic Index. <i>Physiological Research</i> , 2015, 64, 183-189.	0.9	2
31	Relationship between sympathetic activity and pain intensity in fibromyalgia. <i>Clinical and Experimental Rheumatology</i> , 2015, 33, S53-7.	0.8	33
32	Effects of a hydrotherapy programme on symbolic and complexity dynamics of heart rate variability and aerobic capacity in fibromyalgia patients. <i>Clinical and Experimental Rheumatology</i> , 2015, 33, S73-81.	0.8	7
33	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.	2.5	86
34	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.	2.5	35
35	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.	2.2	12
36	Effect of the Postural Challenge on the Dependence of the Cardiovascular Control Complexity on Age. <i>Entropy</i> , 2014, 16, 6686-6704.	2.2	40

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37	Short-term complexity of cardiovascular oscillations during orthostatic change in aging. , 2014, , .		0
38	Assessment of sympathetic baroreflex control during orthostatic challenge before and after prolonged head-down bed rest. , 2014, , .		0
39	Empirical mode decomposition approach to the estimation of cardiac baroreflex sensitivity in patients undergoing coronary artery bypass graft surgery. , 2014, , .		0
40	Comparison between permutation and coarse-grained entropy approaches for the assessment of short-term complexity of heart period variability. , 2014, , .		0
41	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
42	Directionality in cardiovascular variability interactions during head-down tilt test. , 2014, 2014, 6008-11.		4
43	Model-free causality analysis of cardiovascular variability detects the amelioration of autonomic control in Parkinson's disease patients undergoing mechanical stimulation. Physiological Measurement, 2014, 35, 1397-1408.	2.1	9
44	Symbolic Analysis of Heart Period and QT Interval Variabilities in LQT1 Patients. IFMBE Proceedings, 2014, , 531-534.	0.3	1
45	Characterization of the cardiovascular control during modified head-up tilt test in healthy adult humans. Autonomic Neuroscience: Basic and Clinical, 2013, 179, 166-169.	2.8	13
46	Information domain analysis of the spontaneous baroreflex during pharmacological challenges. Autonomic Neuroscience: Basic and Clinical, 2013, 178, 67-75.	2.8	15
47	K-nearest-neighbor conditional entropy approach for the assessment of the short-term complexity of cardiovascular control. Physiological Measurement, 2013, 34, 17-33.	2.1	52
48	Coherence analysis overestimates the role of baroreflex in governing the interactions between heart period and systolic arterial pressure variabilities during general anesthesia. Autonomic Neuroscience: Basic and Clinical, 2013, 178, 83-88.	2.8	14
49	Refined multiscale entropy analysis of heart period and QT interval variabilities in long QT syndrome type-1 patients. , 2013, 2013, 5554-7.		4
50	Entropy-based complexity of the cardiovascular control in Parkinson disease: Comparison between binning and k-nearest-neighbor approaches. , 2013, 2013, 5045-8.		4
51	Model-based causal closed-loop approach to the estimate of baroreflex sensitivity during propofol anesthesia in patients undergoing coronary artery bypass graft. Journal of Applied Physiology, 2013, 115, 1032-1042.	2.5	83
52	Short-term complexity indexes of heart period and systolic arterial pressure variabilities provide complementary information. Journal of Applied Physiology, 2012, 113, 1810-1820.	2.5	68