

Andrea Marchi

List of Publications by Year in descending order

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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	Effect of Age on Complexity and Causality of the Cardiovascular Control: Comparison between Model-Based and Model-Free Approaches. PLoS ONE, 2014, 9, e89463.	2.5	86
2	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
3	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
4	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
5	Simultaneous Characterization of Sympathetic and Cardiac Arms of the Baroreflex through Sequence Techniques during Incremental Head-Up Tilt. Frontiers in Physiology, 2016, 7, 438.	2.8	51
6	Conditional Self-Entropy and Conditional Joint Transfer Entropy in Heart Period Variability during Graded Postural Challenge. PLoS ONE, 2015, 10, e0132851.	2.5	49
7	Are Nonlinear Model-Free Conditional Entropy Approaches for the Assessment of Cardiac Control Complexity Superior to the Linear Model-Based One?. IEEE Transactions on Biomedical Engineering, 2017, 64, 1287-1296.	4.2	47
8	Calibrated variability of muscle sympathetic nerve activity during graded head-up tilt in humans and its link with noradrenaline data and cardiovascular rhythms. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 310, R1134-R1143.	1.8	43
9	Effect of the Postural Challenge on the Dependence of the Cardiovascular Control Complexity on Age. Entropy, 2014, 16, 6686-6704.	2.2	40
10	Nonlinear effects of respiration on the crosstalk between cardiovascular and cerebrovascular control systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150179.	3.4	40
11	Multiscale Complexity Analysis of the Cardiac Control Identifies Asymptomatic and Symptomatic Patients in Long QT Syndrome Type 1. PLoS ONE, 2014, 9, e93808.	2.5	35
12	Relationship between sympathetic activity and pain intensity in fibromyalgia. Clinical and Experimental Rheumatology, 2015, 33, S53-7.	0.8	33
13	Cardiovascular Variability Analysis and Baroreflex Estimation in Patients with Type 2 Diabetes in Absence of Any Manifest Neuropathy. PLoS ONE, 2016, 11, e0148903.	2.5	32
14	Disentangling cardiovascular control mechanisms during head-down tilt via joint transfer entropy and self-entropy decompositions. Frontiers in Physiology, 2015, 6, 301.	2.8	29
15	Cardiovascular parameters and neural sympathetic discharge variability before orthostatic syncope: role of sympathetic baroreflex control to the vessels. Physiological Measurement, 2015, 36, 633-641.	2.1	27
16	Conditional symbolic analysis detects nonlinear influences of respiration on cardiovascular control in humans. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140096.	3.4	24
17	Limits of permutation-based entropies in assessing complexity of short heart period variability. Physiological Measurement, 2015, 36, 755-765.	2.1	23
18	Mechanical ventilatory modes and cardioventilatory phase synchronization in acute respiratory failure patients. Physiological Measurement, 2017, 38, 895-911.	2.1	18

#	ARTICLE	IF	CITATIONS
19	Association between autonomic control indexes and mortality in subjects admitted to intensive care unit. <i>Scientific Reports</i> , 2018, 8, 3486.	3.3	18
20	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
21	Information domain analysis of the spontaneous baroreflex during pharmacological challenges. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 178, 67-75.	2.8	15
22	Pulse Photoplethysmographic Analysis Estimates the Sympathetic Activity Directed to Heart and Vessels. <i>Anesthesiology</i> , 2015, 123, 336-345.	2.5	15
23	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
24	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.	2.8	14
25	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
26	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
27	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.	2.8	13
28	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
29	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.	2.1	9
30	Univariate and bivariate symbolic analyses of cardiovascular variability differentiate general anesthesia procedures. <i>Physiological Measurement</i> , 2015, 36, 715-726.	2.1	8
31	Effects of laparoscopic radical prostatectomy on intraoperative autonomic nervous system control of hemodynamics. <i>Minerva Anestesiologica</i> , 2017, 83, 1265-1273.	1.0	8
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	Pulse photoplethysmographic amplitude and heart rate variability during laparoscopic cholecystectomy. <i>European Journal of Anaesthesiology</i> , 2017, 34, 526-533.	1.7	6
34	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
35	Evaluation of the correlation between cardiac and sympathetic baroreflex sensitivity before orthostatic syncope. , 2015, 2015, 2063-6.		5
36	Refined multiscale entropy analysis of heart period and QT interval variabilities in long QT syndrome type-1 patients. , 2013, 2013, 5554-7.		4

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37	Entropy-based complexity of the cardiovascular control in Parkinson disease: Comparison between binning and k-nearest-neighbor approaches. , 2013, 2013, 5045-8.		4
38	Directionality in cardiovascular variability interactions during head-down tilt test. , 2014, 2014, 6008-11.		4
39	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.	2.2	4
40	General anesthesia reduces the information exchange between heart and circulation. , 2015, 2015, 4029-32.		4
41	Cardiovascular control indexes in amyotrophic lateral sclerosis patients and their relation with clinical markers. , 2015, 2015, 2055-8.		4
42	Cardiovascular interactions assessed via conditional joint transfer entropy in patients developing atrial fibrillation after coronary artery bypass graft surgery. , 2016, 2016, 2937-2940.		2
43	Influence of Gravitational Sympathetic Stimulation on the Surgical Plethysmographic Index. Physiological Research, 2015, 64, 183-189.	0.9	2
44	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
45	Symbolic Analysis of Heart Period and QT Interval Variabilities in LQT1 Patients. IFMBE Proceedings, 2014, , 531-534.	0.3	1
46	Short-term complexity of cardiovascular oscillations during orthostatic change in aging. , 2014, , .		0
47	Assessment of sympathetic baroreflex control during orthostatic challenge before and after prolonged head-down bed rest. , 2014, , .		0
48	Empirical mode decomposition approach to the estimation of cardiac baroreflex sensitivity in patients undergoing coronary artery bypass graft surgery. , 2014, , .		0
49	Comparison between permutation and coarse-grained entropy approaches for the assessment of short-term complexity of heart period variability. , 2014, , .		0
50	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
51	Wiener-Granger causality in QT-HP variability interactions. , 2015, 2015, 1781-4.		0
52	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