

Tomislav Stankovski

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,067
citations

471061

17
h-index

525886

27
g-index

37
all docs

37
docs citations

37
times ranked

757
citing authors

#	ARTICLE	IF	CITATIONS
1	Variability of cardiorespiratory interactions under different breathing patterns. <i>Biomedical Signal Processing and Control</i> , 2022, 71, 103152.	3.5	5
2	Editorial: Synchronization, Swarming and Emergent Behaviors in Complex Networks and Neuroscience. <i>Frontiers in Computational Neuroscience</i> , 2022, 16, 846189.	1.2	0
3	Effects of structural modifications on cluster synchronization patterns. <i>Nonlinear Dynamics</i> , 2022, 108, 3529-3541.	2.7	3
4	Coupling between Blood Pressure and Subarachnoid Space Width Oscillations during Slow Breathing. <i>Entropy</i> , 2021, 23, 113.	1.1	4
5	Cardiorespiratory interactions during three different temperatures – a case report. , 2020, , .		0
6	Time-variability of cardiorespiratory interactions. , 2020, , .		0
7	Time Window Determination for Inference of Time-Varying Dynamics: Application to Cardiorespiratory Interaction. <i>Frontiers in Physiology</i> , 2020, 11, 341.	1.3	8
8	Coupling functions: dynamical interaction mechanisms in the physical, biological and social sciences. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20190039.	1.6	17
9	Synchronization transitions caused by time-varying coupling functions. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20190275.	1.6	21
10	Experimental Realization of the Coupling Function Secure Communications Protocol and Analysis of Its Noise Robustness. <i>IEEE Transactions on Information Forensics and Security</i> , 2018, 13, 2591-2601.	4.5	7
11	Time-varying coupling functions: Dynamical inference and cause of synchronization transitions. <i>Physical Review E</i> , 2017, 95, 022206.	0.8	15
12	Coupling functions: Universal insights into dynamical interaction mechanisms. <i>Reviews of Modern Physics</i> , 2017, 89, .	16.4	196
13	Coherence and Coupling Functions Reveal Microvascular Impairment in Treated Hypertension. <i>Frontiers in Physiology</i> , 2017, 8, 749.	1.3	52
14	Neural Cross-Frequency Coupling Functions. <i>Frontiers in Systems Neuroscience</i> , 2017, 11, 33.	1.2	50
15	Noise robustness of communications provided by coupling-function-encryption and dynamical Bayesian inference. , 2017, , .		0
16	Alterations in the coupling functions between cortical and cardio-respiratory oscillations due to anaesthesia with propofol and sevoflurane. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150186.	1.6	62
17	Detecting Chronotaxic Systems from Single-Variable Time Series with Separable Amplitude and Phase. <i>Entropy</i> , 2015, 17, 4413-4438.	1.1	53
18	The discriminatory value of cardiorespiratory interactions in distinguishing awake from anaesthetised states: a randomised observational study. <i>Anaesthesia</i> , 2015, 70, 1356-1368.	1.8	71

#	ARTICLE	IF	CITATIONS
19	Ageing of the couplings between cardiac, respiratory and myogenic activity in humans. , 2015, 2015, 7366-9.		10
20	Coupling functions in networks of oscillators. New Journal of Physics, 2015, 17, 035002.	1.2	65
21	A tutorial on time-evolving dynamical Bayesian inference. European Physical Journal: Special Topics, 2014, 223, 2685-2703.	1.2	35
22	Cardiorespiratory coupling functions, synchronization and ageing. , 2014, , .		2
23	Coupling Functions Enable Secure Communications. Physical Review X, 2014, 4, .	2.8	25
24	Tackling the Inverse Problem for Non-Autonomous Systems. Springer Theses, 2014, , .	0.0	4
25	The effects of time-varying breathing on human neurophysiological and cardiovascular mechanisms. , 2014, , .		0
26	The heart as a chronotaxic system — Why its rate variability is both complex and simple: Theory and analysis methods. , 2014, , .		0
27	Inverse approach to chronotaxic systems for single-variable time series. Physical Review E, 2014, 89, 032904.	0.8	18
28	Dynamical inference: Where phase synchronization and generalized synchronization meet. Physical Review E, 2014, 89, 062909.	0.8	20
29	Bayesian Inference of Time-Evolving Coupled Systems in the Presence of Noise. Springer Theses, 2014, , 37-74.	0.0	0
30	Evolution of cardiorespiratory interactions with age. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20110622.	1.6	95
31	Time-frequency methods and voluntary ramped-frequency breathing: a powerful combination for exploration of human neurophysiological mechanisms. Journal of Applied Physiology, 2013, 115, 1806-1821.	1.2	26
32	Coupled Nonautonomous Oscillators. Lecture Notes in Mathematics, 2013, , 163-197.	0.1	3
33	Dynamical Bayesian inference of time-evolving interactions: From a pair of coupled oscillators to networks of oscillators. Physical Review E, 2012, 86, 061126.	0.8	50
34	Inference of Time-Evolving Coupled Dynamical Systems in the Presence of Noise. Physical Review Letters, 2012, 109, 024101.	2.9	131
35	Reproducibility of LDF blood flow measurements: Dynamical characterization versus averaging. Microvascular Research, 2011, 82, 274-276.	1.1	17