

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	Coupling functions: Universal insights into dynamical interaction mechanisms. <i>Reviews of Modern Physics</i> , 2017, 89, .	16.4	196
2	Inference of Time-Evolving Coupled Dynamical Systems in the Presence of Noise. <i>Physical Review Letters</i> , 2012, 109, 024101.	2.9	131
3	Evolution of cardiorespiratory interactions with age. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20110622.	1.6	95
4	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
5	Coupling functions in networks of oscillators. <i>New Journal of Physics</i> , 2015, 17, 035002.	1.2	65
6	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
7	Detecting Chronotaxic Systems from Single-Variable Time Series with Separable Amplitude and Phase. <i>Entropy</i> , 2015, 17, 4413-4438.	1.1	53
8	Coherence and Coupling Functions Reveal Microvascular Impairment in Treated Hypertension. <i>Frontiers in Physiology</i> , 2017, 8, 749.	1.3	52
9	Dynamical Bayesian inference of time-evolving interactions: From a pair of coupled oscillators to networks of oscillators. <i>Physical Review E</i> , 2012, 86, 061126.	0.8	50
10	Neural Cross-Frequency Coupling Functions. <i>Frontiers in Systems Neuroscience</i> , 2017, 11, 33.	1.2	50
11	A tutorial on time-evolving dynamical Bayesian inference. <i>European Physical Journal: Special Topics</i> , 2014, 223, 2685-2703.	1.2	35
12	Time-frequency methods and voluntary ramped-frequency breathing: a powerful combination for exploration of human neurophysiological mechanisms. <i>Journal of Applied Physiology</i> , 2013, 115, 1806-1821.	1.2	26
13	Coupling Functions Enable Secure Communications. <i>Physical Review X</i> , 2014, 4, .	2.8	25
14	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
15	Dynamical inference: Where phase synchronization and generalized synchronization meet. <i>Physical Review E</i> , 2014, 89, 062909.	0.8	20
16	Inverse approach to chronotaxic systems for single-variable time series. <i>Physical Review E</i> , 2014, 89, 032904.	0.8	18
17	Reproducibility of LDF blood flow measurements: Dynamical characterization versus averaging. <i>Microvascular Research</i> , 2011, 82, 274-276.	1.1	17
18	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

#	ARTICLE	IF	CITATIONS
19	Time-varying coupling functions: Dynamical inference and cause of synchronization transitions. <i>Physical Review E</i> , 2017, 95, 022206.	0.8	15
20	Ageing of the couplings between cardiac, respiratory and myogenic activity in humans. , 2015, 2015, 7366-9.		10
21	Time Window Determination for Inference of Time-Varying Dynamics: Application to Cardiorespiratory Interaction. <i>Frontiers in Physiology</i> , 2020, 11, 341.	1.3	8
22	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
23	Variability of cardiorespiratory interactions under different breathing patterns. <i>Biomedical Signal Processing and Control</i> , 2022, 71, 103152.	3.5	5
24	Tackling the Inverse Problem for Non-Autonomous Systems. <i>Springer Theses</i> , 2014, , .	0.0	4
25	Coupling between Blood Pressure and Subarachnoid Space Width Oscillations during Slow Breathing. <i>Entropy</i> , 2021, 23, 113.	1.1	4
26	Coupled Nonautonomous Oscillators. <i>Lecture Notes in Mathematics</i> , 2013, , 163-197.	0.1	3
27	Effects of structural modifications on cluster synchronization patterns. <i>Nonlinear Dynamics</i> , 2022, 108, 3529-3541.	2.7	3
28	Cardiorespiratory coupling functions, synchronization and ageing. , 2014, , .		2
29	The effects of time-varying breathing on human neurophysiological and cardiovascular mechanisms. , 2014, , .		0
30	The heart as a chronotaxic system — Why its rate variability is both complex and simple: Theory and analysis methods. , 2014, , .		0
31	Noise robustness of communications provided by coupling-function-encryption and dynamical Bayesian inference. , 2017, , .		0
32	Cardiorespiratory interactions during three different temperatures â€“ a case report. , 2020, , .		0
33	Time-variability of cardiorespiratory interactions. , 2020, , .		0
34	Bayesian Inference of Time-Evolving Coupled Systems in the Presence of Noise. <i>Springer Theses</i> , 2014, , 37-74.	0.0	0
35	Editorial: Synchronization, Swarming and Emergent Behaviors in Complex Networks and Neuroscience. <i>Frontiers in Computational Neuroscience</i> , 2022, 16, 846189.	1.2	0