

Tomislav Stankovski

List of Publications by Year in descending order

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35
papers

1,067
citations

471509

17
h-index

526287

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. Reviews of Modern Physics, 2017, 89, .	45.6	196
2	Inference of Time-Evolving Coupled Dynamical Systems in the Presence of Noise. Physical Review Letters, 2012, 109, 024101.	7.8	131
3	Evolution of cardiorespiratory interactions with age. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20110622.	3.4	95
4	The discriminatory value of cardiorespiratory interactions in distinguishing awake from anaesthetised states: a randomised observational study. Anaesthesia, 2015, 70, 1356-1368.	3.8	71
5	Coupling functions in networks of oscillators. New Journal of Physics, 2015, 17, 035002.	2.9	65
6	Alterations in the coupling functions between cortical and cardio-respiratory oscillations due to anaesthesia with propofol and sevoflurane. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150186.	3.4	62
7	Detecting Chronotaxic Systems from Single-Variable Time Series with Separable Amplitude and Phase. Entropy, 2015, 17, 4413-4438.	2.2	53
8	Coherence and Coupling Functions Reveal Microvascular Impairment in Treated Hypertension. Frontiers in Physiology, 2017, 8, 749.	2.8	52
9	Dynamical Bayesian inference of time-evolving interactions: From a pair of coupled oscillators to networks of oscillators. Physical Review E, 2012, 86, 061126.	2.1	50
10	Neural Cross-Frequency Coupling Functions. Frontiers in Systems Neuroscience, 2017, 11, 33.	2.5	50
11	A tutorial on time-evolving dynamical Bayesian inference. European Physical Journal: Special Topics, 2014, 223, 2685-2703.	2.6	35
12	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.	2.5	26
13	Coupling Functions Enable Secure Communications. Physical Review X, 2014, 4, .	8.9	25
14	Synchronization transitions caused by time-varying coupling functions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190275.	3.4	21
15	Dynamical inference: Where phase synchronization and generalized synchronization meet. Physical Review E, 2014, 89, 062909.	2.1	20
16	Inverse approach to chronotaxic systems for single-variable time series. Physical Review E, 2014, 89, 032904.	2.1	18
17	Reproducibility of LDF blood flow measurements: Dynamical characterization versus averaging. Microvascular Research, 2011, 82, 274-276.	2.5	17
18	Coupling functions: dynamical interaction mechanisms in the physical, biological and social sciences. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190039.	3.4	17

#	ARTICLE	IF	CITATIONS
19	Time-varying coupling functions: Dynamical inference and cause of synchronization transitions. Physical Review E, 2017, 95, 022206.	2.1	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. Frontiers in Physiology, 2020, 11, 341.	2.8	8
22	Experimental Realization of the Coupling Function Secure Communications Protocol and Analysis of Its Noise Robustness. IEEE Transactions on Information Forensics and Security, 2018, 13, 2591-2601.	6.9	7
23	Variability of cardiorespiratory interactions under different breathing patterns. Biomedical Signal Processing and Control, 2022, 71, 103152.	5.7	5
24	Tackling the Inverse Problem for Non-Autonomous Systems. Springer Theses, 2014, , .	0.1	4
25	Coupling between Blood Pressure and Subarachnoid Space Width Oscillations during Slow Breathing. Entropy, 2021, 23, 113.	2.2	4
26	Coupled Nonautonomous Oscillators. Lecture Notes in Mathematics, 2013, , 163-197.	0.2	3
27	Effects of structural modifications on cluster synchronization patterns. Nonlinear Dynamics, 2022, 108, 3529-3541.	5.2	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. Springer Theses, 2014, , 37-74.	0.1	0
35	Editorial: Synchronization, Swarming and Emergent Behaviors in Complex Networks and Neuroscience. Frontiers in Computational Neuroscience, 2022, 16, 846189.	2.1	0