Fabrizio De Vico Fallani

List of Publications by Year
in descending order

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51 papers	2,020 citations	331670 21 h-index	265206 42 g-index
52 all docs	52 docs citations	52 times ranked	2911 citing authors

#	Article	IF	Citations
1	Decreased brain network global efficiency after attachment memories retrieval in individuals with unresolved/disorganized attachment-related state of mind. Scientific Reports, 2022, 12, 4725.	3.3	7
2	Temporal exponential random graph models of longitudinal brain networks after stroke. Journal of the Royal Society Interface, 2022, 19, 20210850.	3.4	5
3	Riemannian geometry for combining functional connectivity metrics and covariance in BCI. Software Impacts, 2022, 12, 100254.	1.4	0
4	Stepwise target controllability identifies dysregulations of macrophage networks in multiple sclerosis. Network Neuroscience, 2021, 5, 337-357.	2.6	1
5	Network-based brainâ€“computer interfaces: principles and applications. Journal of Neural Engineering, 2021, 18, 011001.	3.5	27
6	Phase/Amplitude Synchronization of Brain Signals During Motor Imagery BCI Tasks. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1168-1177.	4.9	14
7	BCI learning induces core-periphery reorganization in M/EEG multiplex brain networks. Journal of Neural Engineering, 2021, 18, 056002.	3.5	6
8	Improving J-Divergence of Brain Connectivity States by Graph Laplacian Denoising. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 493-508.	2.8	5
9	Multi-atlas Multilayer Brain Networks, a new multimodal approach to neurodegenerative disease. , 2021, , .		0
10	Learning in brain-computer interface control evidenced by joint decomposition of brain and behavior. Journal of Neural Engineering, 2020, 17, 046018.	3.5	15
11	A Joint Markov Model for Communities, Connectivity and Signals Defined Over Graphs. IEEE Signal Processing Letters, 2020, 27, 1160-1164.	3.6	7
12	Functional disconnection of associative cortical areas predicts performance during BCI training. NeuroImage, 2020, 209, 116500.	4.2	27
13	Integrating EEG and MEG Signals to Improve Motor Imagery Classification in Brainâ€“Computer Interface. International Journal of Neural Systems, 2019, 29, 1850014.	5.2	57
14	Disrupted core-periphery structure of multimodal brain networks in Alzheimerâ€™s disease. Network Neuroscience, 2019, 3, 635-652.	2.6	20
15	Quality Assessment of Single-Channel EEG for Wearable Devices. Sensors, 2019, 19, 601.	3.8	24
16	Network neuroscience for optimizing brainâ€“computer interfaces. Physics of Life Reviews, 2019, 31, 304-309.	2.8	29
17	Surrogate-Based Artifact Removal From Single-Channel EEG. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 540-550.	4.9	77
18	Characterization of Mental States through Node Connectivity between Brain Signals. , 2018, , .		8

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19	Multiplex coreâ€“periphery organization of the human connectome. Journal of the Royal Society Interface, 2018, 15, 20180514.	3.4	39
20	Green Compressive Sampling Reconstruction in IoT Networks. Sensors, 2018, 18, 2735.	3.8	4
21	Role of inter-hemispheric connections in functional brain networks. Scientific Reports, 2018, 8, 10246.	3.3	14
22	Interhemispheric Connectivity Characterizes Cortical Reorganization in Motor-Related Networks After Cerebellar Lesions. Cerebellum, 2017, 16, 358-375.	2.5	21
23	A statistical model for brain networks inferred from large-scale electrophysiological signals. Journal of the Royal Society Interface, 2017, 14, 20160940.	3.4	16
24	Amyloidosis and neurodegeneration result in distinct structural connectivity patterns in mild cognitive impairment. Neurobiology of Aging, 2017, 55, 177-189.	3.1	20
25	Loss of brain inter-frequency hubs in Alzheimer's disease. Scientific Reports, 2017, 7, 10879.	3.3	75
26	Functional and effective brain connectivity for discrimination between Alzheimerâ€™s patients and healthy individuals: A study on resting state EEG rhythms. Clinical Neurophysiology, 2017, 128, 667-680.	1.5	79
27	A Topological Criterion for Filtering Information in Complex Brain Networks. PLoS Computational Biology, 2017, 13, e1005305.	3.2	89
28	Innovation-based sparse estimation of functional connectivity from multivariate autoregressive models. Proceedings of SPIE, 2015, , .	0.8	0
29	Hierarchy of Neural Organization in the Embryonic Spinal Cord: Granger-Causality Graph Analysis of In Vivo Calcium Imaging Data. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 333-341.	4.9	22
30	Nonparametric resampling of random walks for spectral network clustering. Physical Review E, 2014, 89, 012802.	2.1	14
31	Graph analysis of functional brain networks: practical issues in translational neuroscience. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130521.	4.0	313
32	Human Brain Distinctiveness Based on EEG Spectral Coherence Connectivity. IEEE Transactions on Biomedical Engineering, 2014, 61, 2406-2412.	4.2	191
33	Dynamic Granger-causal networks of electricity spot prices: A novel approach to market integration. Energy Economics, 2014, 44, 422-432.	12.1	40
34	Node Accessibility in Cortical Networks During Motor Tasks. Neuroinformatics, 2013, 11, 355-366.	2.8	7
35	Multiscale topological properties of functional brain networks during motor imagery after stroke. NeuroImage, 2013, 83, 438-449.	4.2	74
36	How the Statistical Validation of Functional Connectivity Patterns Can Prevent Erroneous Definition of Small-World Properties of a Brain Connectivity Network. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-13.	1.3	55

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37	REDUNDANCY IN FUNCTIONAL BRAIN CONNECTIVITY FROM EEG RECORDINGS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250158.	1.7	8
38	Community structure in large-scale cortical networks during motor acts. Chaos, Solitons and Fractals, 2012, 45, 603-610.	5.1	8
39	Sensorimotor rhythm-based brainâ€“computer interface training: the impact on motor cortical responsiveness. Journal of Neural Engineering, 2011, 8, 025020.	3.5	137
40	Brain Network Analysis from High-Resolution EEG Signals. World Scientific Lecture Notes in Complex Systems, 2009, , 217-241.	0.1	0
41	Evaluation of the Brain Network Organization From EEG Signals: A Preliminary Evidence in Stroke Patient. Anatomical Record, 2009, 292, 2023-2031.	1.4	79
42	High-resolution EEG techniques for brainâ€“computer interface applications. Journal of Neuroscience Methods, 2008, 167, 31-42.	2.5	98
43	Cortical Network Dynamics during Foot Movements. Neuroinformatics, 2008, 6, 23-34.	2.8	44
44	Structure of the cortical networks during successful memory encoding in TV commercials. Clinical Neurophysiology, 2008, 119, 2231-2237.	1.5	30
45	Persistent patterns of interconnection in time-varying cortical networks estimated from high-resolution EEG recordings in humans during a simple motor act. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 224014.	2.1	41
46	Community structure of cortical networks in spinal cord injured patients. , 2008, 2008, 3995-8.		4
47	Cortical network topology during successful memory encoding in a lifelike experiment. , 2008, 2008, 4007-10.		1
48	Features Extraction from Time-Varying Cortical Networks Adopting a Theoretical Graph Approach. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5198-201.	0.5	0
49	Simultaneous Tracking of Multiple Brains Activity with High Resolution EEG Hyperscannings. , 2007, , .		0
50	Cortical functional connectivity networks in normal and spinal cord injured patients: Evaluation by graph analysis. Human Brain Mapping, 2007, 28, 1334-1346.	3.6	131
51	Extracting Information from Cortical Connectivity Patterns Estimated from High Resolution EEG Recordings: A Theoretical Graph Approach. Brain Topography, 2007, 19, 125-136.	1.8	35