

# Fabrizio De Vico Fallani

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Graph analysis of functional brain networks: practical issues in translational neuroscience. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130521.	4.0	313
2	Human Brain Distinctiveness Based on EEG Spectral Coherence Connectivity. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 2406-2412.	4.2	191
3	Sensorimotor rhythm-based brain-computer interface training: the impact on motor cortical responsiveness. <i>Journal of Neural Engineering</i> , 2011, 8, 025020.	3.5	137
4	Cortical functional connectivity networks in normal and spinal cord injured patients: Evaluation by graph analysis. <i>Human Brain Mapping</i> , 2007, 28, 1334-1346.	3.6	131
5	High-resolution EEG techniques for brain-computer interface applications. <i>Journal of Neuroscience Methods</i> , 2008, 167, 31-42.	2.5	98
6	A Topological Criterion for Filtering Information in Complex Brain Networks. <i>PLoS Computational Biology</i> , 2017, 13, e1005305.	3.2	89
7	Evaluation of the Brain Network Organization From EEG Signals: A Preliminary Evidence in Stroke Patient. <i>Anatomical Record</i> , 2009, 292, 2023-2031.	1.4	79
8	Functional and effective brain connectivity for discrimination between Alzheimer's patients and healthy individuals: A study on resting state EEG rhythms. <i>Clinical Neurophysiology</i> , 2017, 128, 667-680.	1.5	79
9	Surrogate-Based Artifact Removal From Single-Channel EEG. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 540-550.	4.9	77
10	Loss of brain inter-frequency hubs in Alzheimer's disease. <i>Scientific Reports</i> , 2017, 7, 10879.	3.3	75
11	Multiscale topological properties of functional brain networks during motor imagery after stroke. <i>NeuroImage</i> , 2013, 83, 438-449.	4.2	74
12	Integrating EEG and MEG Signals to Improve Motor Imagery Classification in Brain-Computer Interface. <i>International Journal of Neural Systems</i> , 2019, 29, 1850014.	5.2	57
13	How the Statistical Validation of Functional Connectivity Patterns Can Prevent Erroneous Definition of Small-World Properties of a Brain Connectivity Network. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-13.	1.3	55
14	Cortical Network Dynamics during Foot Movements. <i>Neuroinformatics</i> , 2008, 6, 23-34.	2.8	44
15	Persistent patterns of interconnection in time-varying cortical networks estimated from high-resolution EEG recordings in humans during a simple motor act. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 224014.	2.1	41
16	Dynamic Granger-causal networks of electricity spot prices: A novel approach to market integration. <i>Energy Economics</i> , 2014, 44, 422-432.	12.1	40
17	Multiplex core-periphery organization of the human connectome. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180514.	3.4	39
18	Extracting Information from Cortical Connectivity Patterns Estimated from High Resolution EEG Recordings: A Theoretical Graph Approach. <i>Brain Topography</i> , 2007, 19, 125-136.	1.8	35

#	ARTICLE	IF	CITATIONS
19	Structure of the cortical networks during successful memory encoding in TV commercials. <i>Clinical Neurophysiology</i> , 2008, 119, 2231-2237.	1.5	30
20	Network neuroscience for optimizing brain-computer interfaces. <i>Physics of Life Reviews</i> , 2019, 31, 304-309.	2.8	29
21	Functional disconnection of associative cortical areas predicts performance during BCI training. <i>NeuroImage</i> , 2020, 209, 116500.	4.2	27
22	Network-based brain-computer interfaces: principles and applications. <i>Journal of Neural Engineering</i> , 2021, 18, 011001.	3.5	27
23	Quality Assessment of Single-Channel EEG for Wearable Devices. <i>Sensors</i> , 2019, 19, 601.	3.8	24
24	Hierarchy of Neural Organization in the Embryonic Spinal Cord: Granger-Causality Graph Analysis of In Vivo Calcium Imaging Data. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2015, 23, 333-341.	4.9	22
25	Interhemispheric Connectivity Characterizes Cortical Reorganization in Motor-Related Networks After Cerebellar Lesions. <i>Cerebellum</i> , 2017, 16, 358-375.	2.5	21
26	Amyloidosis and neurodegeneration result in distinct structural connectivity patterns in mild cognitive impairment. <i>Neurobiology of Aging</i> , 2017, 55, 177-189.	3.1	20
27	Disrupted core-periphery structure of multimodal brain networks in Alzheimer's disease. <i>Network Neuroscience</i> , 2019, 3, 635-652.	2.6	20
28	A statistical model for brain networks inferred from large-scale electrophysiological signals. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20160940.	3.4	16
29	Learning in brain-computer interface control evidenced by joint decomposition of brain and behavior. <i>Journal of Neural Engineering</i> , 2020, 17, 046018.	3.5	15
30	Nonparametric resampling of random walks for spectral network clustering. <i>Physical Review E</i> , 2014, 89, 012802.	2.1	14
31	Role of inter-hemispheric connections in functional brain networks. <i>Scientific Reports</i> , 2018, 8, 10246.	3.3	14
32	Phase/Amplitude Synchronization of Brain Signals During Motor Imagery BCI Tasks. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 1168-1177.	4.9	14
33	REDUNDANCY IN FUNCTIONAL BRAIN CONNECTIVITY FROM EEG RECORDINGS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012, 22, 1250158.	1.7	8
34	Community structure in large-scale cortical networks during motor acts. <i>Chaos, Solitons and Fractals</i> , 2012, 45, 603-610.	5.1	8
35	Characterization of Mental States through Node Connectivity between Brain Signals. , 2018, , .		8
36	Node Accessibility in Cortical Networks During Motor Tasks. <i>Neuroinformatics</i> , 2013, 11, 355-366.	2.8	7

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37	A Joint Markov Model for Communities, Connectivity and Signals Defined Over Graphs. IEEE Signal Processing Letters, 2020, 27, 1160-1164.	3.6	7
38	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
39	BCI learning induces core-periphery reorganization in M/EEG multiplex brain networks. Journal of Neural Engineering, 2021, 18, 056002.	3.5	6
40	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
41	Temporal exponential random graph models of longitudinal brain networks after stroke. Journal of the Royal Society Interface, 2022, 19, 20210850.	3.4	5
42	Community structure of cortical networks in spinal cord injured patients. , 2008, 2008, 3995-8.		4
43	Green Compressive Sampling Reconstruction in IoT Networks. Sensors, 2018, 18, 2735.	3.8	4
44	Cortical network topology during successful memory encoding in a lifelike experiment. , 2008, 2008, 4007-10.		1
45	Stepwise target controllability identifies dysregulations of macrophage networks in multiple sclerosis. Network Neuroscience, 2021, 5, 337-357.	2.6	1
46	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
47	Simultaneous Tracking of Multiple Brains Activity with High Resolution EEG Hyperscannings. , 2007, , .		0
48	Brain Network Analysis from High-Resolution EEG Signals. World Scientific Lecture Notes in Complex Systems, 2009, , 217-241.	0.1	0
49	Innovation-based sparse estimation of functional connectivity from multivariate autoregressive models. Proceedings of SPIE, 2015, , .	0.8	0
50	Riemannian geometry for combining functional connectivity metrics and covariance in BCI. Software Impacts, 2022, 12, 100254.	1.4	0
51	Multi-atlas Multilayer Brain Networks, a new multimodal approach to neurodegenerative disease. , 2021, , .		0