

Emanuele Olivetti

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

19,585
citations

759055

12
h-index

414303

32
g-index

56
all docs

56
docs citations

56
times ranked

29908
citing authors

#	ARTICLE	IF	CITATIONS
1	SciPy 1.0: fundamental algorithms for scientific computing in Python. <i>Nature Methods</i> , 2020, 17, 261-272.	9.0	17,539
2	Variability in the analysis of a single neuroimaging dataset by many teams. <i>Nature</i> , 2020, 582, 84-88.	13.7	634
3	PyMVPA: a unifying approach to the analysis of neuroscientific data. <i>Frontiers in Neuroinformatics</i> , 2009, 3, 3.	1.3	98
4	The open diffusion data derivatives, brain data upcycling via integrated publishing of derivatives and reproducible open cloud services. <i>Scientific Data</i> , 2019, 6, 69.	2.4	69
5	Photogrammetry of the Human Brain: A Novel Method for Three-Dimensional Quantitative Exploration of the Structural Connectivity in Neurosurgery and Neurosciences. <i>World Neurosurgery</i> , 2018, 115, e279-e291.	0.7	41
6	Principal component analysis and cluster analysis for measuring the local organisation of human atrial fibrillation. <i>Medical and Biological Engineering and Computing</i> , 2001, 39, 656-663.	1.6	30
7	MEG decoding across subjects. , 2014, , .		26
8	Classifyber, a robust streamline-based linear classifier for white matter bundle segmentation. <i>NeuroImage</i> , 2021, 224, 117402.	2.1	26
9	ADHD diagnosis from multiple data sources with batch effects. <i>Frontiers in Systems Neuroscience</i> , 2012, 6, 70.	1.2	17
10	Tractome: a visual data mining tool for brain connectivity analysis. <i>Data Mining and Knowledge Discovery</i> , 2015, 29, 1258-1279.	2.4	16
11	Alignment of Tractograms As Graph Matching. <i>Frontiers in Neuroscience</i> , 2016, 10, 554.	1.4	16
12	The Approximation of the Dissimilarity Projection. , 2012, , .		15
13	Bayesian hypothesis testing for pattern discrimination in brain decoding. <i>Pattern Recognition</i> , 2012, 45, 2075-2084.	5.1	15
14	Intercepting the First Pass: Rapid Categorization is Suppressed for Unseen Stimuli. <i>Frontiers in Psychology</i> , 2011, 2, 198.	1.1	14
15	White Matter Tract Segmentation as Multiple Linear Assignment Problems. <i>Frontiers in Neuroscience</i> , 2017, 11, 754.	1.4	13
16	Classification of Multichannel Signals With Cumulant-Based Kernels. <i>IEEE Transactions on Signal Processing</i> , 2012, 60, 2304-2314.	3.2	12
17	Differential Effects of Brain Disorders on Structural and Functional Connectivity. <i>Frontiers in Neuroscience</i> , 2017, 10, 605.	1.4	12
18	Tractogram Filtering of Anatomically Non-plausible Fibers with Geometric Deep Learning. <i>Lecture Notes in Computer Science</i> , 2020, , 291-301.	1.0	12

#	ARTICLE	IF	CITATIONS
19	Brain Decoding: Biases in Error Estimation. , 2010, , .		11
20	Inferring Cognition from fMRI Brain Images. Lecture Notes in Computer Science, 2007, , 869-878.	1.0	11
21	Planning Brain Tumor Resection Using a Probabilistic Atlas of Cortical and Subcortical Structures Critical for Functional Processing: A Proof of Concept. Operative Neurosurgery, 2021, 20, E175-E183.	0.4	11
22	Comparison of distances for supervised segmentation of white matter tractography. , 2017, , .		10
23	Active sampling for detecting irrelevant features. , 2006, , .		9
24	Fast Clustering for Interactive Tractography Segmentation. , 2013, , .		9
25	Statistical independence for the evaluation of classifier-based diagnosis. Brain Informatics, 2015, 2, 13-19.	1.8	9
26	Induction in Neuroscience with Classification: Issues and Solutions. Lecture Notes in Computer Science, 2012, , 42-50.	1.0	8
27	Design of Experiment Rational Optimization of an Inkjet Deposition of Silver on Kapton. IEEE Sensors Journal, 2021, 21, 26304-26310.	2.4	7
28	Supervised Segmentation of Fiber Tracts. Lecture Notes in Computer Science, 2011, , 261-274.	1.0	7
29	Discrete Cosine Transform for MEG Signal Decoding. , 2013, , .		5
30	Alignment of Tractograms as Linear Assignment Problem. Mathematics and Visualization, 2016, , 109-120.	0.4	5
31	Supervised Estimation of Granger-Based Causality between Time Series. Frontiers in Neuroinformatics, 2017, 11, 68.	1.3	5
32	DBB - A Distorted Brain Benchmark for Automatic Tissue Segmentation in Paediatric Patients. NeuroImage, 2022, 260, 119486.	2.1	5
33	APPLICATION OF PHOTOGRAMMETRY TO BRAIN ANATOMY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W4, 213-219.	0.2	4
34	A Stem-Based Dissection of Inferior Fronto-Occipital Fasciculus with A Deep Learning Model. , 2020, , .		4
35	Testing for Information with Brain Decoding. , 2011, , .		3
36	The Kernel Two-Sample Test vs. Brain Decoding. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
37	Anatomically-Informed Multiple Linear Assignment Problems for White Matter Bundle Segmentation. , 2019, , .		3
38	Nonlinear Alignment of Whole Tractograms with the Linear Assignment Problem. Lecture Notes in Computer Science, 2020, , 3-11.	1.0	3
39	Active Sampling for Knowledge Discovery from Biomedical Data. Lecture Notes in Computer Science, 2005, , 343-354.	1.0	2
40	Bayesian estimation of directed functional coupling from brain recordings. PLoS ONE, 2017, 12, e0177359.	1.1	2
41	Brain connectivity analysis by reduction to pair classification. , 2010, , .		1
42	Testing Multiclass Pattern Discrimination. , 2012, , .		1
43	Sensor-level maps with the kernel two-sample test. , 2014, , .		1
44	A Bayesian Test for Comparing Classifier Errors. , 2015, , .		1
45	Tractography Mapping for Dissimilarity Space across Subjects. , 2015, , .		1
46	Multi-Task Learning for Interpretation of Brain Decoding Models. Lecture Notes in Computer Science, 2016, , 3-11.	1.0	1
47	Multiple-Scale Visualization of Large Data Based on Hierarchical Clustering. International Journal of Computer and Electrical Engineering, 2014, 6, 77-82.	0.2	1
48	Mapping Tractography Across Subjects. Lecture Notes in Computer Science, 2016, , 21-28.	1.0	1
49	Automatic Tissue Segmentation with Deep Learning in Patients with Congenital or Acquired Distortion of Brain Anatomy. Lecture Notes in Computer Science, 2020, , 13-22.	1.0	1
50	Classification-based tests for neuroimaging data analysis: comparison of best practices. , 2016, , .		0
51	Classification-Based Prediction of Effective Connectivity Between Timeseries With a Realistic Cortical Network Model. Frontiers in Computational Neuroscience, 2018, 12, 38.	1.2	0
52	Active Learning of Feature Relevance. Chapman & Hall/CRC Data Mining and Knowledge Discovery Series, 2007, , 87-107.	0.2	0
53	Classification-Based Causality Detection in Time Series. Lecture Notes in Computer Science, 2016, , 85-93.	1.0	0