# Emanuele Olivetti

## List of Publications by Citations



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|---|---|---|---|
| 47 papers | 7,225 citations | 11 h-index | 56 g-index |
| 56 ext. papers | 13,268 ext. citations | 4.9 avg, IF | 4.7 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 47 | SciPy 1.0: fundamental algorithms for scientific computing in Python. *Nature Methods*, **2020**, 17, 261-272 | 21.6 | 6244 |
| 46 | Variability in the analysis of a single neuroimaging dataset by many teams. *Nature*, **2020**, 582, 84-88 | 50.4 | 281 |
| 45 | PyMVPA: A Unifying Approach to the Analysis of Neuroscientific Data. *Frontiers in Neuroinformatics*, **2009**, 3, 3 | 3.9 | 89 |
| 44 | The open diffusion data derivatives, brain data upcycling via integrated publishing of derivatives and reproducible open cloud services. *Scientific Data*, **2019**, 6, 69 | 8.2 | 30 |
| 43 | Photogrammetry of the Human Brain: A Novel Method for Three-Dimensional Quantitative Exploration of the Structural Connectivity in Neurosurgery and Neurosciences. *World Neurosurgery*, **2018**, 115, e279-e291 | 2.1 | 28 |
| 42 | Principal component analysis and cluster analysis for measuring the local organisation of human atrial fibrillation. *Medical and Biological Engineering and Computing*, **2001**, 39, 656-63 | 3.1 | 28 |
| 41 | MEG decoding across subjects **2014**, | | 17 |
| 40 | ADHD diagnosis from multiple data sources with batch effects. *Frontiers in Systems Neuroscience*, **2012**, 6, 70 | 3.5 | 13 |
| 39 | Variability in the analysis of a single neuroimaging dataset by many teams | | 13 |
| 38 | Intercepting the First Pass: Rapid Categorization is Suppressed for Unseen Stimuli. *Frontiers in Psychology*, **2011**, 2, 198 | 3.4 | 12 |
| 37 | Bayesian hypothesis testing for pattern discrimination in brain decoding. *Pattern Recognition*, **2012**, 45, 2075-2084 | 7.7 | 11 |
| 36 | Alignment of Tractograms As Graph Matching. *Frontiers in Neuroscience*, **2016**, 10, 554 | 5.1 | 11 |
| 35 | Tractome: a visual data mining tool for brain connectivity analysis. *Data Mining and Knowledge Discovery*, **2015**, 29, 1258-1279 | 5.6 | 10 |
| 34 | White Matter Tract Segmentation as Multiple Linear Assignment Problems. *Frontiers in Neuroscience*, **2017**, 11, 754 | 5.1 | 9 |
| 33 | Differential Effects of Brain Disorders on Structural and Functional Connectivity. *Frontiers in Neuroscience*, **2016**, 10, 605 | 5.1 | 9 |
| 32 | Classification of Multichannel Signals With Cumulant-Based Kernels. *IEEE Transactions on Signal Processing*, **2012**, 60, 2304-2314 | 4.8 | 8 |
| 31 | Fast Clustering for Interactive Tractography Segmentation **2013**, | | 8 |

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| 30 | The Approximation of the Dissimilarity Projection **2012**, | | 7 |
| 29 | Active sampling for detecting irrelevant features **2006**, | | 7 |
| 28 | Classifyber, a robust streamline-based linear classifier for white matter bundle segmentation. *NeuroImage*, **2021**, 224, 117402 | 7.9 | 7 |
| 27 | Brain decoding: Biases in error estimation **2010**, | | 6 |
| 26 | Inferring Cognition from fMRI Brain Images. *Lecture Notes in Computer Science*, **2007**, 869-878 | 0.9 | 6 |
| 25 | Comparison of distances for supervised segmentation of white matter tractography **2017**, | | 5 |
| 24 | Alignment of Tractograms as Linear Assignment Problem. *Mathematics and Visualization*, **2016**, 109-120 | 0.6 | 5 |
| 23 | Design of experiment rational optimization of an inkjet deposition of silver on Kapton. *IEEE Sensors Journal*, **2021**, 1-1 | 4 | 5 |
| 22 | Discrete Cosine Transform for MEG Signal Decoding **2013**, | | 4 |
| 21 | Supervised Estimation of Granger-Based Causality between Time Series. *Frontiers in Neuroinformatics*, **2017**, 11, 68 | 3.9 | 4 |
| 20 | Supervised Segmentation of Fiber Tracts. *Lecture Notes in Computer Science*, **2011**, 261-274 | 0.9 | 4 |
| 19 | Induction in Neuroscience with Classification: Issues and Solutions. *Lecture Notes in Computer Science*, **2012**, 42-50 | 0.9 | 4 |
| 18 | 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 | 1.6 | 4 |
| 17 | Statistical independence for the evaluation of classifier-based diagnosis. *Brain Informatics*, **2015**, 2, 13-19 | 3.9 | 3 |
| 16 | The Kernel Two-Sample Test vs. Brain Decoding **2013**, | | 3 |
| 15 | Testing for Information with Brain Decoding **2011**, | | 3 |
| 14 | Tractogram Filtering of Anatomically Non-plausible Fibers with Geometric Deep Learning. *Lecture Notes in Computer Science*, **2020**, 291-301 | 0.9 | 3 |
| 13 | Bayesian estimation of directed functional coupling from brain recordings. *PLoS ONE*, **2017**, 12, e0177359 | 3.7 | 2 |

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| 12 | Classifyber, a robust streamline-based linear classifier for white matter bundle segmentation | | 2 |
| 11 | Anatomically-Informed Multiple Linear Assignment Problems for White Matter Bundle Segmentation **2019**, | | 1 |
| 10 | Sensor-level maps with the kernel two-sample test **2014**, | | 1 |
| 9 | Testing Multiclass Pattern Discrimination **2012**, | | 1 |
| 8 | Brain connectivity analysis by reduction to pair classification **2010**, | | 1 |
| 7 | Active Sampling for Knowledge Discovery from Biomedical Data. *Lecture Notes in Computer Science*, **2005**, 343-354 | 0.9 | 1 |
| 6 | Multi-Task Learning for Interpretation of Brain Decoding Models. *Lecture Notes in Computer Science* , **2016**, 3-11 | 0.9 | 1 |
| 5 | Nonlinear Alignment of Whole Tractograms with the Linear Assignment Problem. *Lecture Notes in Computer Science*, **2020**, 3-11 | 0.9 | 0 |
| 4 | Classification-Based Prediction of Effective Connectivity Between Timeseries With a Realistic Cortical Network Model. *Frontiers in Computational Neuroscience*, **2018**, 12, 38 | 3.5 | |
| 3 | Automatic Tissue Segmentation with Deep Learning in Patients with Congenital or Acquired Distortion of Brain Anatomy. *Lecture Notes in Computer Science*, **2020**, 13-22 | 0.9 | |
| 2 | Mapping Tractography Across Subjects. *Lecture Notes in Computer Science*, **2016**, 21-28 | 0.9 | |
| 1 | Classification-Based Causality Detection in Time Series. *Lecture Notes in Computer Science*, **2016**, 85-93 | 0.9 | |