Philippe Ciuciu

List of Publications by Year in descending order

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Риноре Силсии

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Letter Binding and Invariant Recognition of Masked Words. Behavioral and Neuroimaging Evidence. Psychological Science, 2004, 15, 307-313. | 3.3 | 336 |
| 2 | Dealing with the shortcomings of spatial normalization: Multi-subject parcellation of fMRI datasets. Human Brain Mapping, 2006, 27, 678-693. | 3.6 | 166 |
| 3 | Scale-free and multifractal time dynamics of fMRI signals during rest and task. Frontiers in Physiology, 2012, 3, 186. | 2.8 | 157 |
| 4 | Functional segregation of cortical language areas by sentence repetition. Human Brain Mapping, 2006, 27, 360-371. | 3.6 | 132 |
| 5 | Robust Bayesian estimation of the hemodynamic response function in event-related BOLD fMRI using basic physiological information. Human Brain Mapping, 2003, 19, 1-17. | 3.6 | 119 |
| 6 | Unsupervised robust nonparametric estimation of the hemodynamic response function for any fmri experiment. IEEE Transactions on Medical Imaging, 2003, 22, 1235-1251. | 8.9 | 114 |
| 7 | Results of the 2020 fastMRI Challenge for Machine Learning MR Image Reconstruction. IEEE Transactions on Medical Imaging, 2021, 40, 2306-2317. | 8.9 | 114 |
| 8 | Interplay between functional connectivity and scale-free dynamics in intrinsic fMRI networks. NeuroImage, 2014, 95, 248-263. | 4.2 | 107 |
| 9 | Variable Density Sampling with Continuous Trajectories. SIAM Journal on Imaging Sciences, 2014, 7, 1962-1992. | 2.2 | 88 |
| 10 | Spatially Adaptive Mixture Modeling for Analysis of fMRI Time Series. IEEE Transactions on Medical Imaging, 2010, 29, 1059-1074. | 8.9 | 82 |
| 11 | A fully Bayesian approach to the parcel-based detection-estimation of brain activity in fMRI. NeuroImage, 2008, 41, 941-969. | 4.2 | 76 |
| 12 | On the Generation of Sampling Schemes for Magnetic Resonance Imaging. SIAM Journal on Imaging Sciences, 2016, 9, 2039-2072. | 2.2 | 74 |
| 13 | A wavelet-based regularized reconstruction algorithm for SENSE parallel MRI with applications to neuroimagingâ~†. Medical Image Analysis, 2011, 15, 185-201. | 11.6 | 72 |
| 14 | Fast Joint Detection-Estimation of Evoked Brain Activity in Event-Related fMRI Using a Variational Approach. IEEE Transactions on Medical Imaging, 2013, 32, 821-837. | 8.9 | 63 |
| 15 | Joint detection-estimation of brain activity in functional MRI: a Multichannel Deconvolution solution. IEEE Transactions on Signal Processing, 2005, 53, 3488-3502. | 5.3 | 60 |
| 16 | Data-driven HRF estimation for encoding and decoding models. NeuroImage, 2015, 104, 209-220. | 4.2 | 55 |
| 17 | The neural bases of the constructive nature of autobiographical memories studied with a self-paced fMRI design. Memory, 2008, 16, 351-363. | 1.7 | 51 |
| 18 | SPARKLING: variableâ€density kâ€space filling curves for accelerated T ₂ [*] â€weighted MRI. Magnetic Resonance in Medicine, 2019, 81, 3643-3661. | 3.0 | 49 |

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|----|---|------|-----------|
| 19 | Log Wavelet Leaders Cumulant Based Multifractal Analysis of EVI fMRI Time Series: Evidence of Scaling in Ongoing and Evoked Brain Activity. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 929-943. | 10.8 | 47 |
| 20 | Structural Analysis of fMRI Data Revisited: Improving the Sensitivity and Reliability of fMRI Group Studies. IEEE Transactions on Medical Imaging, 2007, 26, 1256-1269. | 8.9 | 46 |
| 21 | Anatomically informed interpolation of fMRI data on the cortical surface. NeuroImage, 2006, 31, 1475-1486. | 4.2 | 42 |
| 22 | High temporal resolution functional MRI using parallel echo volumar imaging. Journal of Magnetic Resonance Imaging, 2008, 27, 744-753. | 3.4 | 40 |
| 23 | Group-level impacts of within- and between-subject hemodynamic variability in fMRI. NeuroImage, 2013, 82, 433-448. | 4.2 | 40 |
| 24 | Self-similarity and multifractality in human brain activity: A wavelet-based analysis of scale-free brain dynamics. Journal of Neuroscience Methods, 2018, 309, 175-187. | 2.5 | 33 |
| 25 | Supramodal processing optimizes visual perceptual learning and plasticity. NeuroImage, 2014, 93, 32-46. | 4.2 | 32 |
| 26 | A Majorize-Minimize Memory Gradient method for complex-valued inverse problems. Signal Processing, 2014, 103, 285-295. | 3.7 | 32 |
| 27 | Estimation of the Hemodynamic Response in Event-Related Functional MRI: Bayesian Networks as a Framework for Efficient Bayesian Modeling and Inference. IEEE Transactions on Medical Imaging, 2004, 23, 959-967. | 8.9 | 30 |
| 28 | Benchmarking MRI Reconstruction Neural Networks on Large Public Datasets. Applied Sciences (Switzerland), 2020, 10, 1816. | 2.5 | 29 |
| 29 | A Hierarchical Bayesian Model for Frame Representation. IEEE Transactions on Signal Processing, 2010, 58, 5560-5571. | 5.3 | 27 |
| 30 | Spatio-temporal wavelet regularization for parallel MRI reconstruction: application to functional MRI. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2014, 27, 509-529. | 2.0 | 25 |
| 31 | Regularized estimation of mixed spectra using a circular Gibbs-Markov model. IEEE Transactions on Signal Processing, 2001, 49, 2202-2213. | 5.3 | 24 |
| 32 | NC-PDNet: A Density-Compensated Unrolled Network for 2D and 3D Non-Cartesian MRI Reconstruction. IEEE Transactions on Medical Imaging, 2022, 41, 1625-1638. | 8.9 | 24 |
| 33 | Modulation of scale-free properties of brain activity in MEG. , 2012, , . | | 23 |
| 34 | Variable density compressed sensing in MRI. Theoretical vs heuristic sampling strategies. , 2013, , . | | 22 |
| 35 | Identifying a neuroanatomical signature of schizophrenia, reproducible across sites and stages, using machine learning with structured sparsity. Acta Psychiatrica Scandinavica, 2018, 138, 571-580. | 4.5 | 20 |
| 36 | Prediction of activation patterns preceding hallucinations in patients with schizophrenia using machine learning with structured sparsity. Human Brain Mapping, 2018, 39, 1777-1788. | 3.6 | 19 |

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|----|---|-----|-----------|
| 37 | PySAP: Python Sparse Data Analysis Package for multidisciplinary image processing. Astronomy and Computing, 2020, 32, 100402. | 1.7 | 19 |
| 38 | A Projection Algorithm for Gradient Waveforms Design in Magnetic Resonance Imaging. IEEE Transactions on Medical Imaging, 2016, 35, 2026-2039. | 8.9 | 18 |
| 39 | Structured Sparse Principal Components Analysis With the TV-Elastic Net Penalty. IEEE Transactions on Medical Imaging, 2018, 37, 396-407. | 8.9 | 16 |
| 40 | 3D variableâ€density SPARKLING trajectories for highâ€resolution T2*â€weighted magnetic resonance imaging. NMR in Biomedicine, 2020, 33, e4349. | 2.8 | 15 |
| 41 | A half-quadratic block-coordinate descent method for spectral estimation. Signal Processing, 2002, 82, 941-959. | 3.7 | 14 |
| 42 | A Projection Method on Measures Sets. Constructive Approximation, 2017, 45, 83-111. | 3.0 | 14 |
| 43 | Spatial Mixture Modelling for the Joint Detection-Estimation of Brain Activity in fMRI. , 2007, , . | | 12 |
| 44 | Min-max Extrapolation Scheme for Fast Estimation of 3D Potts Field Partition Functions. Application to the Joint Detection-Estimation of Brain Activity in fMRI. Journal of Signal Processing Systems, 2011, 65, 325-338. | 2.1 | 12 |
| 45 | Multivariate semi-blind deconvolution of fMRI time series. NeuroImage, 2021, 241, 118418. | 4.2 | 12 |
| 46 | Estimation of the Hemodynamic Response Function in Event-Related Functional MRI: Directed Acyclic Graphs for a General Bayesian Inference Framework. Lecture Notes in Computer Science, 2003, 18, 635-646. | 1.3 | 11 |
| 47 | A Bayesian non-parametric hidden Markov random model for hemodynamic brain parcellation. Signal Processing, 2017, 135, 132-146. | 3.7 | 11 |
| 48 | Sparsity-based Blind Deconvolution of Neural Activation Signal in FMRI. , 2019, , . | | 11 |
| 49 | Flexible multivariate hemodynamics fMRI data analyses and simulations with PyHRF. Frontiers in Neuroscience, 2014, 8, 67. | 2.8 | 10 |
| 50 | Revisiting Functional Connectivity for Infraslow Scale-Free Brain Dynamics Using Complex Wavelets. Frontiers in Physiology, 2020, 11, 578537. | 2.8 | 9 |
| 51 | Robust Extrapolation Scheme for Fast Estimation of 3D Ising Field Partition Functions: Application to Within-Subject fMRI Data Analysis. Lecture Notes in Computer Science, 2009, 12, 975-983. | 1.3 | 9 |
| 52 | Learning-induced modulation of scale-free properties of brain activity measured with MEG. , 2013, , . | | 8 |
| 53 | Hemodynamic-Informed Parcellation of fMRI Data in a Joint Detection Estimation Framework. Lecture Notes in Computer Science, 2012, 15, 180-188. | 1.3 | 8 |
| 54 | Variational Solution to the Joint Detection Estimation of Brain Activity in fMRI. Lecture Notes in Computer Science, 2011, 14, 260-268. | 1.3 | 8 |

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| 55 | Physiologically Informed Bayesian Analysis of ASL fMRI Data. Lecture Notes in Computer Science, 2014, , 37-48. | 1.3 | 8 |
| 56 | ICA-based sparse features recovery from fMRI datasets. , 2010, , . | | 7 |
| 57 | Emergence of \hat{I}^2 and \hat{I}^3 networks following multisensory training. Neurolmage, 2020, 206, 116313. | 4.2 | 7 |
| 58 | Bayesian Joint Detection-Estimation of Cerebral Vasoreactivity from ASL fMRI Data. Lecture Notes in Computer Science, 2013, 16, 616-624. | 1.3 | 7 |
| 59 | Iterative static field map estimation for offâ€resonance correction in nonâ€Cartesian susceptibility weighted imaging. Magnetic Resonance in Medicine, 2022, 88, 1592-1607. | 3.0 | 7 |
| 60 | Markovian high resolution spectral analysis. , 1999, , . | | 6 |
| 61 | Outlier detection for robust region-based estimation of the hemodynamic response function in event-related fMRI. , 0, , . | | 6 |
| 62 | Sensitivity analysis of parcellation in the joint detection-estimation of brain activity in fMRI. , 2008, , . | | 6 |
| 63 | Modelling the neurovascular habituation effect on fMRI time series. , 2009, , . | | 6 |
| 64 | Fast Adaptive Scene Sampling for Single-Photon 3D Lidar Images. , 2019, , . | | 6 |
| 65 | Reducing the number of samples in spatiotemporal dMRI acquisition design. Magnetic Resonance in Medicine, 2019, 81, 3218-3233. | 3.0 | 6 |
| 66 | Learning the sampling density in 2D SPARKLING MRI acquisition for optimized image reconstruction. , 2021, , . | | 6 |
| 67 | Joint Detection-Estimation of Brain Activity in fMRI using an Autoregressive Noise Model. , 0, , . | | 5 |
| 68 | Multifractal analysis of Resting State Networks in functional MRI. , 2011, , . | | 5 |
| 69 | HYR ² PICS: Hybrid regularized reconstruction for combined parallel imaging and compressive sensing in MRI. , 2012, , . | | 5 |
| 70 | Calibrationless Oscar-Based Image Reconstruction in Compressed Sensing Parallel MRI. , 2019, , . | | 5 |
| 71 | Improved fMRI group studies based on spatially varying non-parametric BOLD signal modeling. , 2008, , . | | 4 |
| 72 | Multivariate Spatial Gaussian Mixture Modeling for statistical clustering of hemodynamic parameters in functional MRI. , 2009, , . | | 4 |

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| 73 | Fast bilinear extrapolation of 3D ising field partition function. application to fMRI image analysis , 2009, , . | | 4 |
| 74 | Impact of the joint detection-estimation approach on random effects group studies in FMRI. , 2011, , . | | 4 |
| 75 | Hemodynamic Estimation Based on Consensus Clustering. , 2013, , . | | 4 |
| 76 | Bayesian bold and perfusion source separation and deconvolution from functional ASL imaging. , 2013, , . | | 4 |
| 77 | Physiological models comparison for the analysis of ASL FMRI data. , 2015, , . | | 4 |
| 78 | Spatially regularized multifractal analysis for fMRI data. , 2017, 2017, 3769-3772. | | 4 |
| 79 | Analysis vs Synthesis-based Regularization for Combined Compressed Sensing and Parallel MRI Reconstruction at 7 Tesla. , 2018, , . | | 4 |
| 80 | An empirical study of the maximum degree of undersampling in compressed sensing for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.gif" overflow="scroll"><mml:msubsup><mml:mrow><mml:mi>T</mml:mi></mml:mrow><mml:mrow><mml:mn>2< MRI. Magnetic Resonance Imaging, 2018, 53, 112-122.</mml:mn></mml:mrow></mml:msubsup></mml:math | /mml:mn> | |
| 81 | Statistical Machine Learning and Compressed Sensing Approaches for Analytical Electron Tomography - Application to Phase Change Materials. Microscopy and Microanalysis, 2019, 25, 156-157. | 0.4 | 4 |
| 82 | Calibration-Less Multi-Coil Compressed Sensing Magnetic Resonance Image Reconstruction Based on OSCAR Regularization. Journal of Imaging, 2021, 7, 58. | 3.0 | 4 |
| 83 | LEADER-BASED MULTIFRACTAL ANALYSIS FOR EVI fMRI TIME SERIES: ONGOING νs TASK-RELATED BRAIN ACTIVITY. , 2007, , . | | 3 |
| 84 | Parameter estimation for hybrid wavelet-total variation regularization. , 2011, , . | | 3 |
| 85 | 3D wavelet-based regularization for parallel MRI reconstruction: Impact on subject and group-level statistical sensitivity in fMRI. , 2011, , . | | 3 |
| 86 | Gradient-based and wavelet-based compressed sensing approaches for highly undersampled tomographic datasets. Ultramicroscopy, 2021, 225, 113289. | 1.9 | 3 |
| 87 | Online MR image reconstruction for compressed sensing acquisition in T2* imaging. , 2019, , . | | 3 |
| 88 | Voxelwise Multivariate Statistics and Brain-Wide Machine Learning Using the Full Diffusion Tensor. Lecture Notes in Computer Science, 2011, 14, 9-16. | 1.3 | 3 |
| 89 | Bayesian Joint Detection-Estimation of Brain Activity Using MCMC With a Gamma-Gaussian Mixture Prior Model. , 0, , . | | 2 |
| 90 | Application and validation of spatial mixture modelling for the joint detection-estimation of brain activity in fMRI. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5218-22. | 0.5 | 2 |

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|-----|--|------|-----------|
| 91 | Introduction to the Issue on fMRI Analysis for Human Brain Mapping. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 813-816. | 10.8 | 2 |
| 92 | A hierarchical Bayesian model for frame representation. , 2010, , . | | 2 |
| 93 | Impact of the parallel imaging reconstruction algorithm on brain activity detection in fMRI. , 2010, , . | | 2 |
| 94 | Image reconstruction from multiple sensors using stein's principle. Application to parallel MRI. , 2011, , . | | 2 |
| 95 | Multi-subject Bayesian Joint Detection and Estimation in fMRI. , 2014, , . | | 2 |
| 96 | Scale-Free Functional Connectivity Analysis from Source Reconstructed MEG Data. , 2018, , . | | 2 |
| 97 | Adaptive experimental condition selection in event-related fMRI. , 2012, , . | | 1 |
| 98 | Comparison of Features for Voxel-Based Analysis and Classification of Anatomical Neuroimaging Data. , 2013, , . | | 1 |
| 99 | Variable Density Sampling based on Physically Plausible Gradient Waveform. Application to 3D MRI Angiography. , 2015, , . | | 1 |
| 100 | Variational Physiologically Informed Solution to Hemodynamic and Perfusion Response Estimation from ASL fMRI Data. , 2015, , . | | 1 |
| 101 | Multi-subject joint parcellation detection estimation in functional MRI. , 2016, , . | | 1 |
| 102 | Impact of perceptual learning on resting-state fMRI connectivity: A supervised classification study. , 2016, , . | | 1 |
| 103 | Multifractal Analysis for Cumulant-Based Epileptic Seizure Detection in Eeg Time Series. , 2019, , . | | 1 |
| 104 | Comparison of Stochastic and Variational Solutions to ASL fMRI Data Analysis. Lecture Notes in Computer Science, 2015, , 85-92. | 1.3 | 1 |
| 105 | Regularized Doppler radar imaging for target identification in atmospheric clutter. , 0, , . | | 0 |
| 106 | Wavelet-based parallel MRI regularization using bivariate sparsity promoting priors. , 2009, , . | | 0 |
| 107 | Spatially adaptive subject level analyses improve random effects fMRI group studies. , 2010, , . | | 0 |
| 108 | Bayesian variational approximation for the joint detection estimation of brain activity in fMRI. , 2011, , . | | 0 |

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| 109 | Robust voxel-wise joint detection estimation of brain activity in fMRI. , 2012, , . | | 0 |
| 110 | Supramodal processing in visual learning and plasticity. Multisensory Research, 2013, 26, 113-114. | 1.1 | 0 |
| 111 | Variational variable selection to assess experimental condition relevance in event-related fMRI. , 2013, , | | 0 |
| 112 | Hemodynamically informed parcellation of cerebral FMRI data. , 2014, , . | | 0 |
| 113 | Decoding perceptual thresholds from MEC/EEG. , 2014, , . | | 0 |
| 114 | Spatially regularized wavelet leader scale-free analysis of fMRI data. , 2018, , . | | 0 |
| 115 | fMRI BOLD signal decomposition using a multivariate low-rank model. , 2019, , . | | 0 |
| 116 | MC-PDNet: Deep Unrolled Neural Network For Multi-Contrast Mr Image Reconstruction From Undersampled K-Space Data. , 2022, , . | | 0 |
| 117 | Hybrid Learning of Non-Cartesian K-Space Trajectory and Mr Image Reconstruction Networks. , 2022, , . | | Ο |