Theodore Papadopoulo

List of Publications by Year
in descending order

54 papers	2,297 citations	471371 17 h-index	377752 34 g-index
56 all docs	56 docs citations	56 times ranked	2481 citing authors

#	Article	IF	Citations
1	OpenMEEG: opensource software for quasistatic bioelectromagnetics. BioMedical Engineering OnLine, 2010, 9, 45.	1.3	883
2	A common formalism for the Integral formulations of the forward EEG problem. IEEE Transactions on Medical Imaging, 2005, 24, 12-28.	5.4	355
3	Symmetrical Dense Optical Flow Estimation with Occlusions Detection. International Journal of Computer Vision, 2007, 75, 371-385.	10.9	107
4	Estimating the Jacobian of the Singular Value Decomposition: Theory and Applications. Lecture Notes in Computer Science, 2000, , 554-570.	1.0	99
5	Brain computer interface with the P300 speller: Usability for disabled people with amyotrophic lateral sclerosis. Annals of Physical and Rehabilitation Medicine, 2018, 61, 5-11.	1.1	99
6	Forward Field Computation with OpenMEEG. Computational Intelligence and Neuroscience, 2011, 2011, 1-13.	1.1	93
7	Efficient Segmentation of Piecewise Smooth Images. , 2007, , 709-720.		64
8	Generalized head models for MEG/EEG: boundary element method beyond nested volumes. Physics in Medicine and Biology, 2006, 51, 1333-1346.	1.6	63
9	A Trilinear Immersed Finite Element Method for Solving the Electroencephalography Forward Problem. SIAM Journal of Scientific Computing, 2010, 32, 2379-2394.	1.3	61
10	Fast multipole acceleration of the MEG/EEG boundary element method. Physics in Medicine and Biology, 2005, 50, 4695-4710.	1.6	46
11	A theory of the motion fields of curves. International Journal of Computer Vision, 1993, 10, 125-156.	10.9	42
12	Consensus Matching Pursuit for multi-trial EEG signals. Journal of Neuroscience Methods, 2009, 180, 161-170.	1.3	34
13	Using diffusion MRI to discriminate areas of cortical grey matter. NeuroImage, 2018, 182, 456-468.	2.1	31
14	The adjoint method for general EEG and MEG sensor-based lead field equations. Physics in Medicine and Biology, 2009, 54, 135-147.	1.6	29
15	Grassmanâ€"Cayley algebra for modelling systems of cameras and the algebraic equations of the manifold of trifocal tensors. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1998, 356, 1123-1152.	1.6	25
16	Modeling of the Neurovascular Coupling in Epileptic Discharges. Brain Topography, 2012, 25, 136-156.	0.8	23
17	Symmetric BEM Formulation for the M/EEG Forward Problem. Lecture Notes in Computer Science, 2003, 18, 524-535.	1.0	20
18	Local Statistic Based Region Segmentation with Automatic Scale Selection. Lecture Notes in Computer Science, 2008, , 486-499.	1.0	20

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19	Variational, geometric, and statistical methods for modeling brain anatomy and function. NeuroImage, 2004, 23, S46-S55.	2.1	19
20	Source localization using rational approximation on plane sections. Inverse Problems, 2012, 28, 055018.	1.0	18
21	A new characterization of the trifocal tensor. Lecture Notes in Computer Science, 1998, , 109-123.	1.0	17
22	On the Absolute Quadratic Complex and Its Application to Autocalibration. , 0, , .		16
23	Relationship Between Flow and Metabolism in BOLD Signals: Insights from Biophysical Models. Brain Topography, 2011, 24, 40-53.	0.8	11
24	Biomarkers for HARDI: 2nd &amp; 4th order tensor invariants. , 2012, , .		11
25	Adaptive Waveform Learning: A Framework for Modeling Variability in Neurophysiological Signals. IEEE Transactions on Signal Processing, 2017, 65, 4324-4338.	3.2	11
26	Adaptive Time-Frequency Models for Single-Trial M/EEG Analysis. Lecture Notes in Computer Science, 2007, 20, 458-469.	1.0	8
27	Long Multi-Stage Training for a Motor-Impaired User in a BCI Competition. Frontiers in Human Neuroscience, 2021, 15, 647908.	1.0	8
28	Structural connectivity to reconstruct brain activation and effective connectivity between brain regions. Journal of Neural Engineering, 2020, 17, 035006.	1.8	6
29	Complete Set of Invariants of a 4 th Order Tensor: The 12 Tasks of HARDI from Ternary Quartics. Lecture Notes in Computer Science, 2014, 17, 233-240.	1.0	6
30	Automatic labeling of EEG electrodes using combinatorial optimization. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4398-401.	0.5	5
31	A quantification framework for post-lesion neo-vascularization in retinal angiography. , 2008, , .		5
32	Handling white-matter anisotropy in BEM for the EEG forward problem. , 2011, , .		5
33	A nested cortex parcellation combining analysis of MEG forward problem and diffusion MRI tractography. , 2012, , .		5
34	Cortical surface parcellation via dMRI using mutual nearest neighbor condition. , 2016, , .		5
35	Fast Approximation of EEG Forward Problem and Application to Tissue Conductivity Estimation. IEEE Transactions on Medical Imaging, 2020, 39, 888-897.	5.4	5
36	An Application of Automatic Theorem Proving in Computer Vision. Lecture Notes in Computer Science, 1999, , 207-232.	1.0	5

#	Article	IF	Citations
37	The fast multipole method for the direct E/MEG problem. , 0, , .		4
38	Tracking cortical activity from M/EEG using graph cuts with spatiotemporal constraints. NeuroImage, 2011, 54, 1930-1941.	2.1	4
39	Towards linking diffusion MRI based macro- and microstructure measures with cortico-cortical transmission in brain tumor patients. NeuroImage, 2021, 226, 117567.	2.1	4
40	Topography-Time-Frequency Atomic Decomposition for Event-Related M/EEG Signals. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5461-4.	0.5	3
41	Implicit Meshing for Finite Element Methods using Levelsets. , 2007, , .		3
42	Multivariate autoregressive model constrained by anatomical connectivity to reconstruct focal sources. , 2016, 2016, 4067-4070.		3
43	MEM-diffusion MRI framework to solve MEEG inverse problem. , 2015, , .		2
44	Spatial regularization based on dMRI to solve EEG/MEG inverse problem. , 2017, 2017, 3608-3611.		2
45	Incorporating Transmission Delays Supported By Diffusion Mri In Meg Source Reconstruction. , 2021, , .		2
46	Geometrical methods for accurate forensic videogrammetry: Part I. Measuring with non-point features. , 2005, , .		1
47	The Adjoint Method for General EEG and MEG Sensor-Based Lead Field Equations. IFMBE Proceedings, 2010, , 105-108.	0.2	1
48	Domain Decomposition for Coupling Finite and Boundary Element Methods in EEG. IFMBE Proceedings, 2010, , 120-123.	0.2	1
49	Neural mass model parameter identification for MEG/EEG. , 2007, , .		0
50	Single-Trial Analysis of Bioelectromagnetic Signals: The Quest for Hidden Information. , 2013, , 237-259.		0
51	Cortex parcellation via diffusion data as prior knowledge for the MEG inverse problem. , 2013, , .		0
52	Large brain effective network from EEG/MEG data and dMR information. , 2017, , .		0
53	Elasticnetisdr to Reconstruct Both Sparse Brain Activity and Effective Connectivity. , 2021, , .		0
54	The Geometry of Multiple Images: The Laws that Govern the Formation of Multiple Images of a Scene and Some of Their Applications20022The Geometry of Multiple Images: The Laws that Govern the Formation of Multiple Images of a Scene and Some of Their Applications. The MIT Press, 2001. 644 pp., ISBN: ISBN 0â€262â€06220â€8 Â£44.95 (hardcover). Industrial Robot, 2002, 29, 287-288.	1.2	0