

Olivier Faugeras

List of Publications by Year in descending order

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26
papers

1,333
citations

567281
15
h-index

610901
24
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27
all docs

27
docs citations

27
times ranked

1118
citing authors

#	ARTICLE	IF	CITATIONS
1	Standing and travelling waves in a spherical brain model: The Nunez model revisited. <i>Physica D: Nonlinear Phenomena</i> , 2017, 349, 27-45.	2.8	30
2	Clarification and Complement to "Mean-Field Description and Propagation of Chaos in Networks of Hodgkin-Huxley and FitzHugh-Nagumo Neurons". <i>Journal of Mathematical Neuroscience</i> , 2015, 5, 31.	2.4	34
3	Asymptotic Description of Neural Networks with Correlated Synaptic Weights. <i>Entropy</i> , 2015, 17, 4701-4743.	2.2	11
4	Stochastic neural field equations: a rigorous footing. <i>Journal of Mathematical Biology</i> , 2015, 71, 259-300.	1.9	40
5	A Formalism for Evaluating Analytically the Cross-Correlation Structure of a Firing-Rate Network Model. <i>Journal of Mathematical Neuroscience</i> , 2015, 5, 6.	2.4	6
6	A Large Deviation Principle and an Expression of the Rate Function for a Discrete Stationary Gaussian Process. <i>Entropy</i> , 2014, 16, 6722-6738.	2.2	0
7	Asymptotic description of stochastic neural networks. I. Existence of a large deviation principle. <i>Comptes Rendus Mathematique</i> , 2014, 352, 841-846.	0.3	6
8	Editorial for the Special Issue on Uncertainty in the Brain. <i>Journal of Mathematical Neuroscience</i> , 2014, 4, 7.	2.4	0
9	Asymptotic description of stochastic neural networks. II. Characterization of the limit law. <i>Comptes Rendus Mathematique</i> , 2014, 352, 847-852.	0.3	2
10	A large deviation principle for networks of rate neurons with correlated synaptic weights. <i>BMC Neuroscience</i> , 2013, 14, .	1.9	4
11	Noise-Induced Behaviors in Neural Mean Field Dynamics. <i>SIAM Journal on Applied Dynamical Systems</i> , 2012, 11, 49-81.	1.6	71
12	Mean-field description and propagation of chaos in networks of Hodgkin-Huxley and FitzHugh-Nagumo neurons. <i>Journal of Mathematical Neuroscience</i> , 2012, 2, 10.	2.4	124
13	Three Applications of GPU Computing in Neuroscience. <i>Computing in Science and Engineering</i> , 2012, 14, 40-47.	1.2	26
14	Neural Fields Models of Visual Areas: Principles, Successes, and Caveats. <i>Lecture Notes in Computer Science</i> , 2012, , 474-479.	1.3	1
15	Stability of the stationary solutions of neural field equations with propagation delays. <i>Journal of Mathematical Neuroscience</i> , 2011, 1, 1.	2.4	55
16	Analysis of a hyperbolic geometric model for visual texture perception. <i>Journal of Mathematical Neuroscience</i> , 2011, 1, 4.	2.4	12
17	Some theoretical and numerical results for delayed neural field equations. <i>Physica D: Nonlinear Phenomena</i> , 2010, 239, 561-578.	2.8	66
18	Local/Global Analysis of the Stationary Solutions of Some Neural Field Equations. <i>SIAM Journal on Applied Dynamical Systems</i> , 2010, 9, 954-998.	1.6	70

#	ARTICLE	IF	CITATIONS
19	A constructive mean-field analysis of multi population neural networks with random synaptic weights and stochastic inputs. <i>Frontiers in Computational Neuroscience</i> , 2009, 3, 1.	2.1	133
20	Hyperbolic Planforms in Relation to Visual Edges and Textures Perception. <i>PLoS Computational Biology</i> , 2009, 5, e1000625.	3.2	35
21	Absolute Stability and Complete Synchronization in a Class of Neural Fields Models. <i>SIAM Journal on Applied Mathematics</i> , 2008, 69, 205-250.	1.8	38
22	A characterization of the first hitting time of double integral processes to curved boundaries. <i>Advances in Applied Probability</i> , 2008, 40, 501-528.	0.7	12
23	A characterization of the first hitting time of double integral processes to curved boundaries. <i>Advances in Applied Probability</i> , 2008, 40, 501-528.	0.7	11
24	Multi-View Stereo Reconstruction and Scene Flow Estimation with a Global Image-Based Matching Score. <i>International Journal of Computer Vision</i> , 2007, 72, 179-193.	15.6	229
25	Variational, geometric, and statistical methods for modeling brain anatomy and function. <i>NeuroImage</i> , 2004, 23, S46-S55.	4.2	19
26	Variational Methods for Multimodal Image Matching. <i>International Journal of Computer Vision</i> , 2002, 50, 329-343.	15.6	298