

# Olivier Faugeras

## List of Publications by Year in descending order

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26  
papers

1,333  
citations

567144

15  
h-index

610775

24  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1118  
citing authors

#	ARTICLE	IF	CITATIONS
1	Variational Methods for Multimodal Image Matching. <i>International Journal of Computer Vision</i> , 2002, 50, 329-343.	10.9	298
2	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.	10.9	229
3	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.	1.2	133
4	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
5	Noise-Induced Behaviors in Neural Mean Field Dynamics. <i>SIAM Journal on Applied Dynamical Systems</i> , 2012, 11, 49-81.	0.7	71
6	Local/Global Analysis of the Stationary Solutions of Some Neural Field Equations. <i>SIAM Journal on Applied Dynamical Systems</i> , 2010, 9, 954-998.	0.7	70
7	Some theoretical and numerical results for delayed neural field equations. <i>Physica D: Nonlinear Phenomena</i> , 2010, 239, 561-578.	1.3	66
8	Stability of the stationary solutions of neural field equations with propagation delays. <i>Journal of Mathematical Neuroscience</i> , 2011, 1, 1.	2.4	55
9	Stochastic neural field equations: a rigorous footing. <i>Journal of Mathematical Biology</i> , 2015, 71, 259-300.	0.8	40
10	Absolute Stability and Complete Synchronization in a Class of Neural Fields Models. <i>SIAM Journal on Applied Mathematics</i> , 2008, 69, 205-250.	0.8	38
11	Hyperbolic Planforms in Relation to Visual Edges and Textures Perception. <i>PLoS Computational Biology</i> , 2009, 5, e1000625.	1.5	35
12	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
13	Standing and travelling waves in a spherical brain model: The Nunez model revisited. <i>Physica D: Nonlinear Phenomena</i> , 2017, 349, 27-45.	1.3	30
14	Three Applications of GPU Computing in Neuroscience. <i>Computing in Science and Engineering</i> , 2012, 14, 40-47.	1.2	26
15	Variational, geometric, and statistical methods for modeling brain anatomy and function. <i>NeuroImage</i> , 2004, 23, S46-S55.	2.1	19
16	A characterization of the first hitting time of double integral processes to curved boundaries. <i>Advances in Applied Probability</i> , 2008, 40, 501-528.	0.4	12
17	Analysis of a hyperbolic geometric model for visual texture perception. <i>Journal of Mathematical Neuroscience</i> , 2011, 1, 4.	2.4	12
18	Asymptotic Description of Neural Networks with Correlated Synaptic Weights. <i>Entropy</i> , 2015, 17, 4701-4743.	1.1	11

#	ARTICLE	IF	CITATIONS
19	A characterization of the first hitting time of double integral processes to curved boundaries. <i>Advances in Applied Probability</i> , 2008, 40, 501-528.	0.4	11
20	Asymptotic description of stochastic neural networks. I. Existence of a large deviation principle. <i>Comptes Rendus Mathematique</i> , 2014, 352, 841-846.	0.1	6
21	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
22	A large deviation principle for networks of rate neurons with correlated synaptic weights. <i>BMC Neuroscience</i> , 2013, 14, .	0.8	4
23	Asymptotic description of stochastic neural networks. II. Characterization of the limit law. <i>Comptes Rendus Mathematique</i> , 2014, 352, 847-852.	0.1	2
24	Neural Fields Models of Visual Areas: Principles, Successes, and Caveats. <i>Lecture Notes in Computer Science</i> , 2012, , 474-479.	1.0	1
25	A Large Deviation Principle and an Expression of the Rate Function for a Discrete Stationary Gaussian Process. <i>Entropy</i> , 2014, 16, 6722-6738.	1.1	0
26	Editorial for the Special Issue on Uncertainty in the Brain. <i>Journal of Mathematical Neuroscience</i> , 2014, 4, 7.	2.4	0