

Mauro Maggioni

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

2,717
citations

18
h-index

52
g-index

69
ext. papers

3,278
ext. citations

3.9
avg, IF

5.12
L-index

#	Paper	IF	Citations
60	Geometric diffusions as a tool for harmonic analysis and structure definition of data: diffusion maps. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 7426-31	11.5	944
59	Diffusion wavelets. <i>Applied and Computational Harmonic Analysis</i> , 2006 , 21, 53-94	3.1	420
58	Determination of reaction coordinates via locally scaled diffusion map. <i>Journal of Chemical Physics</i> , 2011 , 134, 124116	3.9	180
57	Diffusion Maps, Reduction Coordinates, and Low Dimensional Representation of Stochastic Systems. <i>Multiscale Modeling and Simulation</i> , 2008 , 7, 842-864	1.8	156
56	Geometric diffusions as a tool for harmonic analysis and structure definition of data: multiscale methods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 7432-7	11.5	134
55	Manifold parametrizations by eigenfunctions of the Laplacian and heat kernels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 1803-8	11.5	87
54	Genomic characterization of large heterochromatic gaps in the human genome assembly. <i>PLoS Computational Biology</i> , 2014 , 10, e1003628	5	68
53	Multiscale approximation with hierarchical radial basis functions networks. <i>IEEE Transactions on Neural Networks</i> , 2004 , 15, 178-88		66
52	Diffusion polynomial frames on metric measure spaces. <i>Applied and Computational Harmonic Analysis</i> , 2008 , 24, 329-353	3.1	59
51	Multi-scale geometric methods for data sets II: Geometric Multi-Resolution Analysis. <i>Applied and Computational Harmonic Analysis</i> , 2012 , 32, 435-462	3.1	55
50	Tensor-CUR Decompositions for Tensor-Based Data. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2008 , 30, 957-987	1.5	49
49	Unsupervised Clustering and Active Learning of Hyperspectral Images With Nonlinear Diffusion. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 1829-1845	8.1	41
48	Polymer reversal rate calculated via locally scaled diffusion map. <i>Journal of Chemical Physics</i> , 2011 , 134, 144109	3.9	39
47	Characterization of General Tight Wavelet Frames with Matrix Dilations and Tightness Preserving Oversampling. <i>Journal of Fourier Analysis and Applications</i> , 2002 , 8, 173-200	1.1	35
46	Branched-chain amino acids alter neurobehavioral function in rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013 , 304, E405-13	6	34
45	Diffusion wavelet packets. <i>Applied and Computational Harmonic Analysis</i> , 2006 , 21, 95-112	3.1	30
44	Nonparametric inference of interaction laws in systems of agents from trajectory data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 14424-14433	11.5	21

43	Diffusion-driven multiscale analysis on manifolds and graphs: top-down and bottom-up constructions 2005 ,		19
42	Multiscale geometric methods for data sets I: Multiscale SVD, noise and curvature. <i>Applied and Computational Harmonic Analysis</i> , 2017 , 43, 504-567	3.1	17
41	Universal local parametrizations via heat kernels and eigenfunctions of the Laplacian. <i>Annales Academiae Scientiarum Fennicae Mathematica</i> , 2010 , 35, 131-174	1.9	17
40	Research on online social networks. <i>Performance Evaluation Review</i> , 2010 , 37, 49-54	0.4	16
39	Estimation of intrinsic dimensionality of samples from noisy low-dimensional manifolds in high dimensions with multiscale SVD 2009 ,		16
38	Inferring interaction rules from observations of evolutive systems I: The variational approach. <i>Mathematical Models and Methods in Applied Sciences</i> , 2017 , 27, 909-951	3.5	15
37	Biorthogonal diffusion wavelets for multiscale representations on manifolds and graphs 2005 ,		13
36	Fast direct policy evaluation using multiscale analysis of Markov diffusion processes 2006 ,		12
35	Discovering and deciphering relationships across disparate data modalities. <i>ELife</i> , 2019 , 8,	8.9	12
34	Spectral Spatial Diffusion Geometry for Hyperspectral Image Clustering. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020 , 17, 1243-1247	4.1	12
33	Substrate Spatial Complexity Analysis for the Prediction of Ventricular Arrhythmias in Patients With Ischemic Cardiomyopathy. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020 , 13, e007975	6.4	11
32	Approximation of points on low-dimensional manifolds via random linear projections. <i>Information and Inference</i> , 2013 , 2, 1-31	2.4	11
31	Hyperspectral microscopic analysis of normal, benign and carcinoma microarray tissue sections 2006 ,		11
30	Geometric diffusions for the analysis of data from sensor networks. <i>Current Opinion in Neurobiology</i> , 2005 , 15, 576-84	7.6	10
29	ATLAS: A Geometric Approach to Learning High-Dimensional Stochastic Systems Near Manifolds. <i>Multiscale Modeling and Simulation</i> , 2017 , 15, 110-156	1.8	9
28	Object recognition in art drawings: Transfer of a neural network 2016 ,		7
27	Multiscale geometric wavelets for the analysis of point clouds 2010 ,		7
26	Multiscale geometric and spectral analysis of plane arrangements 2011 ,		7

25	Remarks on the box problem. <i>Mathematical Research Letters</i> , 2002 , 9, 515-519	0.6	7
24	Some Recent Advances in Multiscale Geometric Analysis of Point Clouds 2011 , 199-225		7
23	Data-driven discovery of emergent behaviors in collective dynamics. <i>Physica D: Nonlinear Phenomena</i> , 2020 , 411,	3.3	6
22	High-Dimensional Data Modeling Techniques for Detection of Chemical Plumes and Anomalies in Hyperspectral Images and Movies. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016 , 9, 4316-4324	4.7	6
21	A fast multiscale framework for data in high-dimensions: Measure estimation, anomaly detection, and compressive measurements 2012 ,		6
20	Geometries of sensor outputs, inference, and information processing 2006 ,		6
19	Beauty is in the bid of the beholder: An empirical basis for style. <i>Research in Economics</i> , 2016 , 70, 388-402		6
18	Learning adaptive multiscale approximations to data and functions near low-dimensional sets 2016 ,		5
17	Wavelet Frames on Groups and Hypergroups via Discretization of Calderón Formulas. <i>Monatshefte Fur Mathematik</i> , 2004 , 143, 299-331	0.7	3
16	Supervised dimensionality reduction for big data. <i>Nature Communications</i> , 2021 , 12, 2872	17.4	3
15	Arrhythmic sudden death survival prediction using deep learning analysis of scarring in the heart. 2022 , 1, 334-343		3
14	Multi-Resolution Geometric Analysis for Data in High Dimensions 2013 , 259-285		2
13	ROFLMAO: Robust Oblique Forests with Linear Matrix Operations 2017 , 498-506		2
12	Anatomically informed deep learning on contrast-enhanced cardiac magnetic resonance imaging for scar segmentation and clinical feature extraction.. <i>Cardiovascular Digital Health Journal</i> , 2022 , 3, 2-13 ²		2
11	Learning Interaction Kernels in Stochastic Systems of Interacting Particles from Multiple Trajectories. <i>Foundations of Computational Mathematics</i> ,1	2.7	2
10	Multiscale regression on unknown manifolds. <i>Mathematics in Engineering</i> , 2022 , 4, 1-25	1.2	2
9	Dictionary Learning and Non-Asymptotic Bounds for Geometric Multi-Resolution Analysis. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014 , 14, 1013-1016	0.2	1
8	Efficient solution of Markov decision problems with multiscale representations 2012 ,		1

7	2013,			1
6	Data representation and exploration with Geometric Wavelets 2010,			1
5	Geometric multiscale reduction for autonomous and controlled nonlinear systems 2012,			1
4	M-Band Burt-Adelson Biorthogonal Wavelets. <i>Applied and Computational Harmonic Analysis</i> , 2000 , 9, 286-311	3.1		1
3	On the identifiability of interaction functions in systems of interacting particles. <i>Stochastic Processes and Their Applications</i> , 2021 , 132, 135-163	1.1		1
2	Critical Exponent of Short Even Filters and Burt-Adelson Biorthogonal Wavelets. <i>Monatshefte Fur Mathematik</i> , 2000 , 131, 49-69	0.7		
1	A Biased Kaczmarz Algorithm for Clustered Equations. <i>Springer Proceedings in Mathematics and Statistics</i> , 2019 , 447-456	0.2		