Patrice Abry

List of Publications by Year
in descending order

190 papers	5,833 citations	109321 35 h-index	98798 67 g-index
200 all docs	200 docs citations	200 times ranked	3327 citing authors

#	Article	IF	Citations
1	Wavelet analysis of long-range-dependent traffic. IEEE Transactions on Information Theory, 1998, 44, 2-15.	2.4	752
2	A wavelet-based joint estimator of the parameters of long-range dependence. IEEE Transactions on Information Theory, 1999, 45, 878-897.	2.4	390
3	Bootstrap for Empirical Multifractal Analysis. IEEE Signal Processing Magazine, 2007, 24, 38-48.	5.6	232
4	Multiscale nature of network traffic. IEEE Signal Processing Magazine, 2002, 19, 28-46.	5.6	217
5	SHARED BICYCLES IN A CITY: A SIGNAL PROCESSING AND DATA ANALYSIS PERSPECTIVE. International Journal of Modeling, Simulation, and Scientific Computing, 2011, 14, 415-438.	1.4	196
6	The Wavelet-Based Synthesis for Fractional Brownian Motion Proposed by F. Sellan and Y. Meyer: Remarks and Fast Implementation. Applied and Computational Harmonic Analysis, 1996, 3, 377-383.	2.2	179
7	MAWILab. , 2010, , .		178
8	Scale-free and multifractal time dynamics of fMRI signals during rest and task. Frontiers in Physiology, 2012, 3, 186.	2.8	157
9	Wavelet leaders and bootstrap for multifractal analysis of images. Signal Processing, 2009, 89, 1100-1114.	3.7	156
10	Interplay between functional connectivity and scale-free dynamics in intrinsic fMRI networks. NeuroImage, 2014, 95, 248-263.	4.2	107
11	Non-Gaussian and Long Memory Statistical Characterizations for Internet Traffic with Anomalies. IEEE Transactions on Dependable and Secure Computing, 2007, 4, 56-70.	5.4	106
12	Wavelets, spectrum analysis and 1/f processes. Lecture Notes in Statistics, 1995, , 15-29.	0.2	105
13	Long-range Dependence: Revisiting Aggregation with Wavelets. Journal of Time Series Analysis, 1998, 19, 253-266.	1.2	103
14	Multifractality Tests Using Bootstrapped Wavelet Leaders. IEEE Transactions on Signal Processing, 2007, 55, 4811-4820.	5.3	97
15	Extracting hidden anomalies using sketch and non Gaussian multiresolution statistical detection procedures. , 2007, , .		86
16	Cluster processes: a natural language for network traffic. IEEE Transactions on Signal Processing, 2003, 51, 2229-2244.	5.3	81
17	From bicycle sharing system movements to users: a typology of VÃ©loâ€™v cyclists in Lyon based on large-scale behavioural dataset. Journal of Transport Geography, 2014, 41, 280-291.	5.0	77
18	Orthostatic tolerance and spontaneous baroreflex sensitivity in men versus women after 7 days of head-down bed rest. Autonomic Neuroscience: Basic and Clinical, 2002, 100, 66-76.	2.8	69

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19	On Non-Scale-Invariant Infinitely Divisible Cascades. IEEE Transactions on Information Theory, 2005, 51, 1063-1083.	2.4	66
20	Comprehensive multifractal analysis of turbulent velocity using the wavelet leaders. European Physical Journal B, 2008, 61, 201-215.	1.5	66
21	Sparse Support Vector Machine for Intrapartum Fetal Heart Rate Classification. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 664-671.	6.3	66
22	Wavelet Leaders in Multifractal Analysis. , 2006, , 201-246.		63
23	When Van Gogh meets Mandelbrot: Multifractal classification of painting's texture. Signal Processing, 2013, 93, 554-572.	3.7	61
24	Scaling in Internet Traffic: A 14 Year and 3 Day Longitudinal Study, With Multiscale Analyses and Random Projections. IEEE/ACM Transactions on Networking, 2017, 25, 2152-2165.	3.8	58
25	Scattering Transform for Intrapartum Fetal Heart Rate Variability Fractal Analysis: A Case-Control Study. IEEE Transactions on Biomedical Engineering, 2014, 61, 1100-1108.	4.2	54
26	Multiscale Analysis of Intensive Longitudinal Biomedical Signals and Its Clinical Applications. Proceedings of the IEEE, 2016, 104, 242-261.	21.3	54
27	Fast and exact synthesis of stationary multivariate Gaussian time series using circulant embedding. Signal Processing, 2011, 91, 1123-1133.	3.7	50
28	Multifractal Analysis of Fetal Heart Rate Variability in Fetuses with and without Severe Acidosis during Labor. American Journal of Perinatology, 2011, 28, 259-266.	1.4	50
29	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
30	On the initialization of the discrete wavelet transform algorithm. IEEE Signal Processing Letters, 1994, 1, 32-34.	3.6	46
31	Self-Similar Anisotropic Texture Analysis: The Hyperbolic Wavelet Transform Contribution. IEEE Transactions on Image Processing, 2013, 22, 4353-4363.	9.8	46
32	Fractal Analysis and Hurst Parameter for Intrapartum Fetal Heart Rate Variability Analysis: A Versatile Alternative to Frequency Bands and LF/HF Ratio. PLoS ONE, 2015, 10, e0136661.	2.5	44
33	Multifractality in TCP/IP traffic: the case against. Computer Networks, 2005, 48, 293-313.	5.1	42
34	A statistical test for the time constancy of scaling exponents. IEEE Transactions on Signal Processing, 2001, 49, 2325-2334.	5.3	41
35	Multiscale Anisotropic Texture Analysis and Classification of Photographic Prints: Art scholarship meets image processing algorithms. IEEE Signal Processing Magazine, 2015, 32, 18-27.	5.6	40
36	Investigating Self-Similarity and Heavy-Tailed Distributions on a Large-Scale Experimental Facility. IEEE/ACM Transactions on Networking, 2010, 18, 1261-1274.	3.8	39

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37	Designing Multiresolution Analysis-type Wavelets and Their Fast Algorithms. Journal of Fourier Analysis and Applications, 1995, 2, 135-159.	1.0	37
38	Does fractal scaling at the IP level depend on TCP flow arrival processes?. , 2002, , .		37
39	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mi>p</mml:mi></mml:math>-exponent and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mi>p</mml:mi></mml:math>-leaders, Part I: Negative pointwise regularity. Physica A: Statistical Mechanics and Its Applications, 2016, 448, 300-318.	2.6	37
40	Bluetooth Data in an Urban Context: Retrieving Vehicle Trajectories. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2377-2386.	8.0	37
41	Revisiting an old friend: on the observability of the relation between long range dependence and heavy tail. Telecommunication Systems, 2010, 43, 147-165.	2.5	36
42	Wavelet estimation for operator fractional Brownian motion. Bernoulli, 2018, 24, .	1.3	35
43	ON THE AUTOMATIC SELECTION OF THE ONSET OF SCALING. Fractals, 2003, 11, 377-390.	3.7	34
44	Wavelet-based synthesis of the Rosenblatt process. Signal Processing, 2006, 86, 2326-2339.	3.7	34
45	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si8.gif" display="inline" overflow="scroll"><mml:mi>p</mml:mi></mml:math>-exponent and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si8.gif" display="inline" overflow="scroll"><mml:mi>p</mml:mi></mml:math>-leaders, Part II: Multifractal analysis. Relations to detrended fluctuation analysis. Physica A: Statistical Mechanics and Its Applications, 2016, 448, 319-339.	2.6	34
46	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
47	Intermittency and coherent structures in a swirling flow: A wavelet analysis of joint pressure and velocity measurements. Physics of Fluids, 1999, 11, 3524-3539.	4.0	31
48	Mortality Prediction in Severe Congestive Heart Failure Patients With Multifractal Point-Process Modeling of Heartbeat Dynamics. IEEE Transactions on Biomedical Engineering, 2018, 65, 2345-2354.	4.2	30
49	Wavelet Leader multifractal analysis for texture classification. , 2009, , .		28
50	Unsupervised host behavior classification from connection patterns. International Journal of Network Management, 2010, 20, 317-337.	2.2	28
51	Stochastic integral representation and properties of the wavelet coefficients of linear fractional stable motion. Stochastic Processes and Their Applications, 2000, 86, 177-182.	0.9	26
52	PURSUING AUTOMATED CLASSIFICATION OF HISTORIC PHOTOGRAPHIC PAPERS FROM RAKING LIGHT IMAGES. Journal of the American Institute for Conservation, 2014, 53, 159-170.	0.5	26
53	Construction of biorthogonal wavelets starting from any two multiresolutions. IEEE Transactions on Signal Processing, 1998, 46, 1130-1133.	5.3	24
54	Meaningful MRA initialization for discrete time series. Signal Processing, 2000, 80, 1971-1983.	3.7	24

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55	Detection of the wave-like structures in the F-region electron density: Two station measurements. Studia Geophysica Et Geodaetica, 2006, 50, 131-146.	0.5	24
56	Acoustic–gravity waves during solar eclipses: Detection and characterization using wavelet transforms. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 2465-2484.	1.6	24
57	Modulation of scale-free properties of brain activity in MEG. , 2012, , .		23
58	Wavelet Leader based Multifractal Analysis. , 0, , .		22
59	Synthesis of multivariate stationary series with prescribed marginal distributions and covariance using circulant matrix embedding. Signal Processing, 2011, 91, 1741-1758.	3.7	22
60	Irregularities and scaling in signal and image processing: multifractal analysis. Fractals and Dynamics in Mathematics, Science and the Arts, 2015, , 31-116.	0.2	22
61	Spatial and temporal regularization to estimate COVID-19 reproduction number R(t): Promoting piecewise smoothness via convex optimization. PLoS ONE, 2020, 15, e0237901.	2.5	22
62	Empirical mode decomposition to assess cardiovascular autonomic control in rats. Fundamental and Clinical Pharmacology, 2007, 21, 481-496.	1.9	19
63	Multivariate Hadamard self-similarity: Testing fractal connectivity. Physica D: Nonlinear Phenomena, 2017, 356-357, 1-36.	2.8	19
64	Functional brain–heart interplay extends to the multifractal domain. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200260.	3.4	19
65	Synoptic Graphlet: Bridging the Gap Between Supervised and Unsupervised Profiling of Host-Level Network Traffic. IEEE/ACM Transactions on Networking, 2013, 21, 1284-1297.	3.8	18
66	Multivariate multifractal analysis. Applied and Computational Harmonic Analysis, 2019, 46, 653-663.	2.2	18
67	Bounds for the covariance of functions of infinite variance stable random variables with applications to central limit theorems and wavelet-based estimation. Bernoulli, 2007, 13, .	1.3	18
68	Multifractal Random Walks as Fractional Wiener Integrals. IEEE Transactions on Information Theory, 2009, 55, 3825-3846.	2.4	17
69	Bayesian Estimation of the Multifractality Parameter for Image Texture Using a Whittle Approximation. IEEE Transactions on Image Processing, 2015, 24, 2540-2551.	9.8	17
70	<title>Revisiting scaling, multifractal, and multiplicative cascades with the wavelet leader lens</title>. , 2004, , .		16
71	Wavelet-based analysis of non-Gaussian long-range dependent processes and estimation of the hurst parameter. Lithuanian Mathematical Journal, 2011, 51, 287-302.	0.4	15
72	The hyperbolic wavelet transform: an efficient tool for multifractal analysis of anisotropic fields. Revista Matematica Iberoamericana, 2015, 31, 313-348.	0.9	15

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73	A Primal-Dual Algorithm for Link Dependent Origin Destination Matrix Estimation. IEEE Transactions on Signal and Information Processing Over Networks, 2017, 3, 104-113.	2.8	15
74	Sparse learning for Intrapartum fetal heart rate analysis. Biomedical Physics and Engineering Express, 2018, 4, 034002.	1.2	15
75	Wavelet eigenvalue regression for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml45" display="inline" overflow="scroll" altimg="si45.gif"><mml:mi>n</mml:mi></mml:math>-variate operator fractional Brownian motion. Journal of Multivariate Analysis, 2018, 168, 75-104.	1.0	15
76	Information Theory to Probe Intrapartum Fetal Heart Rate Dynamics. Entropy, 2017, 19, 640.	2.2	14
77	Neural Integration of Stimulus History Underlies Prediction for Naturalistically Evolving Sequences. Journal of Neuroscience, 2018, 38, 1541-1557.	3.6	14
78	Hurst exponent and intrapartum fetal heart rate: Impact of decelerations. , 2013, , .		13
79	Network application profiling with traffic causality graphs. International Journal of Network Management, 2014, 24, 289-303.	2.2	13
80	LÎ³-PageRank for semi-supervised learning. Applied Network Science, 2019, 4, .	1.5	13
81	Multifractal formalisms for multivariate analysis. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190150.	2.1	13
82	Wavelet p-Leader Non Gaussian Multiscale Expansions for Heart Rate Variability Analysis in Congestive Heart Failure Patients. IEEE Transactions on Biomedical Engineering, 2019, 66, 80-88.	4.2	12
83	On the Role of Flows and Sessions in Internet Traffic Modeling: An Explorative Toy-Model. , 2009, , .		11
84	Assessing erectile neurogenic dysfunction from heart rate variability through a Generalized Linear Mixed Model framework. Computer Methods and Programs in Biomedicine, 2010, 99, 49-56.	4.7	11
85	Finite-Resolution Effects in p -Leader Multifractal Analysis. IEEE Transactions on Signal Processing, 2017, 65, 3359-3368.	5.3	11
86	Bayesian Selection for the $ell _2$ -Potts Model Regularization Parameter: 1-D Piecewise Constant Signal Denoising. IEEE Transactions on Signal Processing, 2017, 65, 5215-5224.	5.3	11
87	Multivariate scale-free temporal dynamics: From spectral (Fourier) to fractal (wavelet) analysis. Comptes Rendus Physique, 2019, 20, 489-501.	0.9	11
88	A Dynamical Network View of Lyon's Vélo'v Shared Bicycle System. Modeling and Simulation in Science, Engineering and Technology, 2013, , 267-284.	0.6	11
89	A stochastic description of extremal dynamics. Europhysics Letters, 2000, 51, 1-7.	2.0	10
90	Covariance Versus Precision Matrix Estimation for Efficient Asset Allocation. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 982-993.	10.8	10

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91	Linearization effect in multifractal analysis: Insights from the Random Energy Model. Physica D: Nonlinear Phenomena, 2011, 240, 1245-1253.	2.8	9
92	Ionosphere fluctuations and global indices: A scale dependent wavelet-based cross-correlation analysis. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 90-91, 186-197.	1.6	9
93	Bayesian estimation for the multifractality parameter. , 2013, , .		9
94	Multifractal Analysis of Multivariate Images Using Gamma Markov Random Field Priors. SIAM Journal on Imaging Sciences, 2018, 11, 1294-1316.	2.2	9
95	Revisiting Functional Connectivity for Infraslow Scale-Free Brain Dynamics Using Complex Wavelets. Frontiers in Physiology, 2020, 11, 578537.	2.8	9
96	Distance to Healthy Metabolic and Cardiovascular Dynamics From Fetal Heart Rate Scale-Dependent Features in Pregnant Sheep Model of Human Labor Predicts the Evolution of Acidemia and Cardiovascular Decompensation. Frontiers in Pediatrics, 2021, 9, 660476.	1.9	9
97	Variational graph autoencoders for multiview canonical correlation analysis. Signal Processing, 2021, 188, 108182.	3.7	9
98	Using surrogates and optimal transport for synthesis of stationary multivariate series with prescribed covariance function and non-gaussian joint-distribution. , 2012, , .		8
99	Learning-induced modulation of scale-free properties of brain activity measured with MEG. , 2013, , .		8
100	Local regularity for texture segmentation: Combining wavelet leaders and proximal minimization. , 2013, , .		8
101	Smoothing Windows for the Synthesis of Gaussian Stationary Random Fields Using Circulant Matrix Embedding. Journal of Computational and Graphical Statistics, 2014, 23, 616-635.	1.7	8
102	Scaling range automated selection for wavelet leader multifractal analysis. Signal Processing, 2014, 105, 243-257.	3.7	8
103	Nonlinear denoising for characterization of solid friction under low confinement pressure. Physical Review E, 2019, 100, 032803.	2.1	8
104	A Generalized Multifractal Formalism for the Estimation of Nonconcave Multifractal Spectra. IEEE Transactions on Signal Processing, 2019, 67, 110-119.	5.3	8
105	BGP Zombies: An Analysis of Beacons Stuck Routes. Lecture Notes in Computer Science, 2019, , 197-209.	1.3	8
106	On-The-Fly Approximation of Multivariate Total Variation Minimization. IEEE Transactions on Signal Processing, 2016, 64, 2355-2364.	5.3	7
107	Two-step wavelet-based estimation for Gaussian mixed fractional processes. Statistical Inference for Stochastic Processes, 2019, 22, 157-185.	0.6	7
108	Nonsmooth Convex Optimization to Estimate the Covid-19 Reproduction Number Space-Time Evolution With Robustness Against Low Quality Data. IEEE Transactions on Signal Processing, 2022, 70, 2859-2868.	5.3	7

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109	Fractal Dimension Estimation: Empirical Mode Decomposition Versuswavelets. , 2007, , .		6
110	Second order properties of distribution tails and estimation of tail exponents in random difference equations. Extremes, 2009, 12, 361-400.	1.0	6
111	Random Vector and Time Series Definition and Synthesis From Matrix Product Representations: From Statistical Physics to Hidden Markov Models. IEEE Transactions on Signal Processing, 2013, 61, 5389-5400.	5.3	6
112	Demixing multivariate-operator self-similar processes. , 2015, , .		6
113	Combining local regularity estimation and total variation optimization for scale-free texture segmentation. IEEE Transactions on Computational Imaging, 2016, , 1-1.	4.4	6
114	Probing High-Order Dependencies With Information Theory. IEEE Transactions on Signal Processing, 2019, 67, 3796-3805.	5.3	6
115	<title>Reassigned scalograms and their fast algorithms</title>. , 1995, 2569, 152.		5
116	<title>Multiresolution entropy measure</title>. , 1997, , .		5
117	Invited Talk: Sketch Based Anomaly Detection, Identification and Performance Evaluation. , 2007, , .		5
118	Detecting oscillating singularities in multifractal analysis: Application to hydrodynamic turbulence. , 2011, , .		5
119	Multifractal analysis of Resting State Networks in functional MRI. , 2011, , .		5
120	Renormalization flow for extreme value statistics of random variables raised to a varying power. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 115004.	2.1	5
121	Critical moment definition and estimation, for finite size observation of log-exponential-power law random variables. Signal Processing, 2012, 92, 2848-2865.	3.7	5
122	Statistics of sums of correlated variables described by a matrix product ansatz. Europhysics Letters, 2013, 104, 50009.	2.0	5
123	Hyperspectral image analysis using multifractal attributes. , 2015, , .		5
124	Signal Processing for Art Investigation [From the Guest Editors]. IEEE Signal Processing Magazine, 2015, 32, 14-16.	5.6	5
125	Non-Linear Wavelet Regression and Branch & Bound Optimization for the Full Identification of Bivariate Operator Fractional Brownian Motion. IEEE Transactions on Signal Processing, 2016, 64, 4040-4049.	5.3	5
126	Detecting and Estimating Multivariate Self-Similar Sources in High-Dimensional Noisy Mixtures. , 2018, , .		5

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127	Graph-based era segmentation of international financial integration. Physica A: Statistical Mechanics and Its Applications, 2020, 539, 122877.	2.6	5
128	Quantifying Functional Links between Brain and Heartbeat Dynamics in the Multifractal Domain: a Preliminary Analysis. , 2020, 2020, 561-564.		5
129	Automated Data-Driven Selection of the Hyperparameters for Total-Variation-Based Texture Segmentation. Journal of Mathematical Imaging and Vision, 2021, 63, 923-952.	1.3	5
130	Scaling and Wavelets: An Introductory Walk. Lecture Notes in Physics, 2003, , 34-60.	0.7	5
131	Bootstrap tests for the time constancy of multifractal attributes. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	4
132	Scattering transform for intrapartum fetal heart rate characterization and acidosis detection. , 2013, 2013, 2898-901.		4
133	Inverse problem formulation for regularity estimation in images. , 2014, , .		4
134	General Limit Distributions for Sums of Random Variables with a Matrix Product Representation. Journal of Statistical Physics, 2014, 157, 1255-1283.	1.2	4
135	Generalized Legendre transform multifractal formalism for nonconcave spectrum estimation. , 2016, , .		4
136	Non-linear regression for bivariate self-similarity identification â€" application to anomaly detection in Internet traffic based on a joint scaling analysis of packet and byte counts. , 2016, , .		4
137	Spatially regularized multifractal analysis for fMRI data. , 2017, 2017, 3769-3772.		4
138	Scattering Transform of Heart Rate Variability for the Prediction of Ischemic Stroke in Patients with Atrial Fibrillation. Methods of Information in Medicine, 2018, 57, 141-145.	1.2	4
139	Parameter-free and fast nonlinear piecewise filtering: application to experimental physics. Annales Des Telecommunications/Annals of Telecommunications, 2020, 75, 655-671.	2.5	4
140	Neural integration underlying naturalistic prediction flexibly adapts to varying sensory input rate. Nature Communications, 2021, 12, 2643.	12.8	4
141	Multivariate multifractal texture DCGAN synthesis: How well does it workÂ?ÂHow does one knowÂ?. Journal of Signal Processing Systems, 2022, 94, 179-195.	2.1	4
142	A Bayesian Framework for Multivariate Multifractal Analysis. IEEE Transactions on Signal Processing, 2022, 70, 3663-3675.	5.3	4
143	Can continuous-time stationary stable processes have discrete linear representations?. Statistics and Probability Letters, 2003, 64, 147-157.	0.7	3
144	LEADER-BASED MULTIFRACTAL ANALYSIS FOR EVI fMRI TIME SERIES: ONGOING vs TASK-RELATED BRAIN ACTIVITY. , 2007, , .		3

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145	Une caractÃ©risation non gaussienne et Ã longue mÃ©moire du trafic Internet et de ses anomalies: validation expÃ©rimentale et application Ã la dÃ©tection dâ€™attaque de DDoS/Non Gaussian Long Memory Model for Internet Traffic: Experimental Validation and Application to DDoS Detection. Annales Des Telecommunications/Annals of Telecommunications, 2007, 62, 1401-1428.	2.5	3
146	Large deviations for correlated random variables described by a matrix product ansatz. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P02003.	2.3	3
147	Bayesian-driven criterion to automatically select the regularization parameter in the â„"<inf>1</inf>-Potts model. , 2017, , .		3
148	Performance of two Multiscale Texture Algorithms in Classifying Silver Gelatin Paper via K-Nearest Neighbors. , 2018, , .		3
149	Joint Estimation of Local Variance and Local Regularity for Texture Segmentation. Application to Multiphase Flow Characterization. , 2018, , .		3
150	Wavelet Domain Bootstrap for Testing the Equality of Bivariate Self-Similarity Exponents. , 2018, , .		3
151	Strongly convex optimization for joint fractal feature estimation and texture segmentation. Applied and Computational Harmonic Analysis, 2021, 54, 303-322.	2.2	3
152	Multifractal Analysis Based on p-Exponents and Lacunarity Exponents. Progress in Probability, 2015, , 279-313.	0.3	3
153	On the impact of the number of vanishing moments on the dependence structures of compound Poisson motion and fractional Brownian motion in multifractal time. Lecture Notes in Statistics, 2010, , 71-101.	0.2	3
154	Uncovering Relations between Traffic Classifiers and Anomaly Detectors via Graph Theory. Lecture Notes in Computer Science, 2010, , 101-114.	1.3	3
155	Bayesian Estimation of the Parameters of the Bivariate Multifractal Spectrum. , 2021, , .		3
156	<title>Semi- and biorthogonal MRA-type wavelet designs and their fast algorithms</title>. , 1995, , .		2
157	Wavelet Decomposition of Measures: Application to Multifractal Analysis of Images. NATO Science for Peace and Security Series B: Physics and Biophysics, 2009, , 1-20.	0.3	2
158	Scale-dependent analysis of Ionosphere fluctuations. , 2011, , .		2
159	Matrix products for the synthesis of stationary time series with a priori prescribed joint distributions. , 2012, , .		2
160	Multifractal-based texture segmentation using variational procedure. , 2016, , .		2
161	Mutual information for intrapartum fetal heart rate analysis. , 2017, 2017, 2014-2017.		2
162	On Multivariate Non-Gaussian Scale Invariance: Fractional LÃ©vy Processes And Wavelet Estimation. , 2019, , .		2

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163	Wavelet-Based Detection and Estimation of Fractional LÃ©vy Signals in High Dimensions. , 2019, , .		2
164	Who benefits most from Lyonâ€™s bike sharing system?. PLoS ONE, 2020, 15, e0231550.	2.5	2
165	Bootstrap for testing the equality of selfsimilarity exponents across multivariate time series. , 2021, , .		2
166	Impact of Data Quantization on Empirical Multifractal Analysis. , 2007, , .		1
167	Time-Scale Block Bootstrap Tests for Non Gaussian Finite Variance Self-Similar Processes with Stationary Increments. , 2007, , .		1
168	Measurement Analysis of the Live E! Sensor Network: Spatial-Temporal Correlations and Data Aggregation. , 2009, , .		1
169	Characterization of Host-Level Application Traffic with Multi-Scale Gamma Model. IEICE Transactions on Communications, 2010, E93-B, 3048-3057.	0.7	1
170	On the existence of a glass transition in a random energy model. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 315002.	2.1	1
171	Multivariate optimization for multifractal-based texture segmentation. , 2015, , .		1
172	Block-Coordinate Proximal Algorithms for Scale-Free Texture Segmentation. , 2018, , .		1
173	Multifractal Analysis for Cumulant-Based Epileptic Seizure Detection in Eeg Time Series. , 2019, , .		1
174	Shuffling for understanding multifractality, application to asset price time series. , 2019, , .		1
175	Scale-free Texture Segmentation: Expert Feature-based versus Deep Learning strategies. , 2021, , .		1
176	Multiview Variational Graph Autoencoders for Canonical Correlation Analysis. , 2021, , .		1
177	Small and large scale behavior of moments of Poisson cluster processes. ESAIM - Probability and Statistics, 2017, 21, 369-393.	0.5	1
178	Counting the Number of Different Scaling Exponents in Multivariate Scale-Free Dynamics: Clustering by Bootstrap in the Wavelet Domain. , 2022, , .		1
179	Combining multiresolution and random projections for robust statistical analysis and anomaly detection. , 2009, , .		0
180	Framework for adaptive multiscale analysis of nonhomogeneous point processes. , 2011, 2011, 7727-30.		0

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181	Application of Cardiac Autonomous Indices in the Study of Neurogenic Erectile Dysfunction. Urologia Internationalis, 2011, 86, 290-297.	1.3	0
182	Data comparison using Gaussian Graphical Models. , 2014, , .		0
183	Spatially regularized wavelet leader scale-free analysis of fMRI data. , 2018, , .		0
184	A multivariate multifractal analysis of lacunary wavelet series. , 2019, , .		0
185	Towards systematic traffic annotation. , 2009, , .		0
186	Title is missing!. , 2020, 15, e0237901.		0
187	Title is missing!. , 2020, 15, e0237901.		0
188	Title is missing!. , 2020, 15, e0237901.		0
189	Title is missing!. , 2020, 15, e0237901.		0
190	The Contours of a Cliophysics. How Can Econophysics Enrich Cliometrics? Case Studies in Debt Issues and Global Capital Markets. Frontiers in Physics, 0, 10, .	2.1	0