

Patrice Abry

List of Publications by Year in descending order

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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	Multivariate multifractal texture DCGAN synthesis: How well does it work? How does one know? Journal of Signal Processing Systems, 2022, 94, 179-195.	2.1	4
2	Counting the Number of Different Scaling Exponents in Multivariate Scale-Free Dynamics: Clustering by Bootstrap in the Wavelet Domain. , 2022, , .		1
3	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
4	A Bayesian Framework for Multivariate Multifractal Analysis. IEEE Transactions on Signal Processing, 2022, 70, 3663-3675.	5.3	4
5	Scale-free Texture Segmentation: Expert Feature-based versus Deep Learning strategies. , 2021, , .		1
6	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
7	Neural integration underlying naturalistic prediction flexibly adapts to varying sensory input rate. Nature Communications, 2021, 12, 2643.	12.8	4
8	Multiview Variational Graph Autoencoders for Canonical Correlation Analysis. , 2021, , .		1
9	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
10	Strongly convex optimization for joint fractal feature estimation and texture segmentation. Applied and Computational Harmonic Analysis, 2021, 54, 303-322.	2.2	3
11	Variational graph autoencoders for multiview canonical correlation analysis. Signal Processing, 2021, 188, 108182.	3.7	9
12	Functional brain-heart interplay extends to the multifractal domain. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200260.	3.4	19
13	Bootstrap for testing the equality of selfsimilarity exponents across multivariate time series. , 2021, , .		2
14	Bayesian Estimation of the Parameters of the Bivariate Multifractal Spectrum. , 2021, , .		3
15	Graph-based era segmentation of international financial integration. Physica A: Statistical Mechanics and Its Applications, 2020, 539, 122877.	2.6	5
16	Quantifying Functional Links between Brain and Heartbeat Dynamics in the Multifractal Domain: a Preliminary Analysis. , 2020, 2020, 561-564.		5
17	Parameter-free and fast nonlinear piecewise filtering: application to experimental physics. Annales Des Telecommunications/Annals of Telecommunications, 2020, 75, 655-671.	2.5	4
18	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

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19	Who benefits most from Lyon's bike sharing system?. PLoS ONE, 2020, 15, e0231550.	2.5	2
20	Revisiting Functional Connectivity for Infralow Scale-Free Brain Dynamics Using Complex Wavelets. Frontiers in Physiology, 2020, 11, 578537.	2.8	9
21	Title is missing!. , 2020, 15, e0237901.		0
22	Title is missing!. , 2020, 15, e0237901.		0
23	Title is missing!. , 2020, 15, e0237901.		0
24	Title is missing!. , 2020, 15, e0237901.		0
25	Probing High-Order Dependencies With Information Theory. IEEE Transactions on Signal Processing, 2019, 67, 3796-3805.	5.3	6
26	Multivariate scale-free temporal dynamics: From spectral (Fourier) to fractal (wavelet) analysis. Comptes Rendus Physique, 2019, 20, 489-501.	0.9	11
27	L ³ -PageRank for semi-supervised learning. Applied Network Science, 2019, 4, .	1.5	13
28	Multifractal Analysis for Cumulant-Based Epileptic Seizure Detection in Eeg Time Series. , 2019, , .		1
29	Nonlinear denoising for characterization of solid friction under low confinement pressure. Physical Review E, 2019, 100, 032803.	2.1	8
30	Multifractal formalisms for multivariate analysis. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190150.	2.1	13
31	Shuffling for understanding multifractality, application to asset price time series. , 2019, , .		1
32	On Multivariate Non-Gaussian Scale Invariance: Fractional Lévy Processes And Wavelet Estimation. , 2019, , .		2
33	A multivariate multifractal analysis of lacunary wavelet series. , 2019, , .		0
34	Wavelet-Based Detection and Estimation of Fractional Lévy Signals in High Dimensions. , 2019, , .		2
35	Two-step wavelet-based estimation for Gaussian mixed fractional processes. Statistical Inference for Stochastic Processes, 2019, 22, 157-185.	0.6	7
36	A Generalized Multifractal Formalism for the Estimation of Nonconcave Multifractal Spectra. IEEE Transactions on Signal Processing, 2019, 67, 110-119.	5.3	8

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37	Multivariate multifractal analysis. Applied and Computational Harmonic Analysis, 2019, 46, 653-663.	2.2	18
38	Wavelet ψ -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
39	BGP Zombies: An Analysis of Beacons Stuck Routes. Lecture Notes in Computer Science, 2019, , 197-209.	1.3	8
40	Sparse learning for Intrapartum fetal heart rate analysis. Biomedical Physics and Engineering Express, 2018, 4, 034002.	1.2	15
41	Neural Integration of Stimulus History Underlies Prediction for Naturalistically Evolving Sequences. Journal of Neuroscience, 2018, 38, 1541-1557.	3.6	14
42	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
43	Wavelet estimation for operator fractional Brownian motion. Bernoulli, 2018, 24, .	1.3	35
44	Performance of two Multiscale Texture Algorithms in Classifying Silver Gelatin Paper via K-Nearest Neighbors. , 2018, , .		3
45	Block-Coordinate Proximal Algorithms for Scale-Free Texture Segmentation. , 2018, , .		1
46	Detecting and Estimating Multivariate Self-Similar Sources in High-Dimensional Noisy Mixtures. , 2018, , .		5
47	Joint Estimation of Local Variance and Local Regularity for Texture Segmentation. Application to Multiphase Flow Characterization. , 2018, , .		3
48	Spatially regularized wavelet leader scale-free analysis of fMRI data. , 2018, , .		0
49	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
50	Wavelet Domain Bootstrap for Testing the Equality of Bivariate Self-Similarity Exponents. , 2018, , .		3
51	Wavelet eigenvalue regression for $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml45" display="inline" overflow="scroll" altimg="si45.gif" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -variate operator fractional Brownian motion. Journal of Multivariate Analysis, 2018, 168, 75-104.	1.0	15
52	Multifractal Analysis of Multivariate Images Using Gamma Markov Random Field Priors. SIAM Journal on Imaging Sciences, 2018, 11, 1294-1316.	2.2	9
53	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
54	Sparse Support Vector Machine for Intrapartum Fetal Heart Rate Classification. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 664-671.	6.3	66

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55	Bluetooth Data in an Urban Context: Retrieving Vehicle Trajectories. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2377-2386.	8.0	37
56	Finite-Resolution Effects in p -Leader Multifractal Analysis. IEEE Transactions on Signal Processing, 2017, 65, 3359-3368.	5.3	11
57	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
58	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
59	Multivariate Hadamard self-similarity: Testing fractal connectivity. Physica D: Nonlinear Phenomena, 2017, 356-357, 1-36.	2.8	19
60	Bayesian Selection for the ℓ_2 -Potts Model Regularization Parameter: 1-D Piecewise Constant Signal Denoising. IEEE Transactions on Signal Processing, 2017, 65, 5215-5224.	5.3	11
61	Mutual information for intrapartum fetal heart rate analysis. , 2017, 2017, 2014-2017.		2
62	Spatially regularized multifractal analysis for fMRI data. , 2017, 2017, 3769-3772.		4
63	Information Theory to Probe Intrapartum Fetal Heart Rate Dynamics. Entropy, 2017, 19, 640.	2.2	14
64	Bayesian-driven criterion to automatically select the regularization parameter in the ℓ_1 -Potts model. , 2017, , .		3
65	Small and large scale behavior of moments of Poisson cluster processes. ESAIM - Probability and Statistics, 2017, 21, 369-393.	0.5	1
66	Covariance Versus Precision Matrix Estimation for Efficient Asset Allocation. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 982-993.	10.8	10
67	$\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll" \rangle \langle mml:mi \rangle p \langle /mml:mi \rangle \langle /mml:math \rangle$ -exponent and $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll" \rangle \langle mml:mi \rangle p \langle /mml:mi \rangle \langle /mml:math \rangle$ -leaders, Part I: Negative pointwise regularity.	2.6	37
68	$\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si8.gif" display="inline" overflow="scroll" \rangle \langle mml:mi \rangle p \langle /mml:mi \rangle \langle /mml:math \rangle$ -exponent and $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si8.gif" display="inline" overflow="scroll" \rangle \langle mml:mi \rangle p \langle /mml:mi \rangle \langle /mml:math \rangle$ -leaders, Part II: Multifractal analysis. Relations to detrended fluctuation analysis. Physica A: Statistical Mechanics and Its Applications, 2016, 448, 319-339.	2.6	34
69	Multifractal-based texture segmentation using variational procedure. , 2016, , .		2
70	Combining local regularity estimation and total variation optimization for scale-free texture segmentation. IEEE Transactions on Computational Imaging, 2016, , 1-1.	4.4	6
71	Generalized Legendre transform multifractal formalism for nonconcave spectrum estimation. , 2016, , .		4
72	Non-linear regression for bivariate self-similarity identification $\hat{\epsilon}$ application to anomaly detection in Internet traffic based on a joint scaling analysis of packet and byte counts. , 2016, , .		4

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73	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
74	On-The-Fly Approximation of Multivariate Total Variation Minimization. IEEE Transactions on Signal Processing, 2016, 64, 2355-2364.	5.3	7
75	Multiscale Analysis of Intensive Longitudinal Biomedical Signals and Its Clinical Applications. Proceedings of the IEEE, 2016, 104, 242-261.	21.3	54
76	Multivariate optimization for multifractal-based texture segmentation. , 2015, , .		1
77	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
78	Hyperspectral image analysis using multifractal attributes. , 2015, , .		5
79	The hyperbolic wavelet transform: an efficient tool for multifractal analysis of anisotropic fields. Revista Matematica Iberoamericana, 2015, 31, 313-348.	0.9	15
80	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
81	Demixing multivariate-operator self-similar processes. , 2015, , .		6
82	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
83	Signal Processing for Art Investigation [From the Guest Editors]. IEEE Signal Processing Magazine, 2015, 32, 14-16.	5.6	5
84	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
85	Multifractal Analysis Based on p-Exponents and Lacunarity Exponents. Progress in Probability, 2015, , 279-313.	0.3	3
86	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
87	Inverse problem formulation for regularity estimation in images. , 2014, , .		4
88	Data comparison using Gaussian Graphical Models. , 2014, , .		0
89	Network application profiling with traffic causality graphs. International Journal of Network Management, 2014, 24, 289-303.	2.2	13
90	General Limit Distributions for Sums of Random Variables with a Matrix Product Representation. Journal of Statistical Physics, 2014, 157, 1255-1283.	1.2	4

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91	From bicycle sharing system movements to users: a typology of VÃ©loâ€™cyclists in Lyon based on large-scale behavioural dataset. Journal of Transport Geography, 2014, 41, 280-291.	5.0	77
92	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
93	PURSUIING AUTOMATED CLASSIFICATION OF HISTORIC PHOTOGRAPHIC PAPERS FROM RAKING LIGHT IMAGES. Journal of the American Institute for Conservation, 2014, 53, 159-170.	0.5	26
94	Scaling range automated selection for wavelet leader multifractal analysis. Signal Processing, 2014, 105, 243-257.	3.7	8
95	Interplay between functional connectivity and scale-free dynamics in intrinsic fMRI networks. NeuroImage, 2014, 95, 248-263.	4.2	107
96	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
97	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
98	When Van Gogh meets Mandelbrot: Multifractal classification of painting's texture. Signal Processing, 2013, 93, 554-572.	3.7	61
99	Self-Similar Anisotropic Texture Analysis: The Hyperbolic Wavelet Transform Contribution. IEEE Transactions on Image Processing, 2013, 22, 4353-4363.	9.8	46
100	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
101	Statistics of sums of correlated variables described by a matrix product ansatz. Europhysics Letters, 2013, 104, 50009.	2.0	5
102	Hurst exponent and intrapartum fetal heart rate: Impact of decelerations. , 2013, , .		13
103	Bayesian estimation for the multifractality parameter. , 2013, , .		9
104	Scattering transform for intrapartum fetal heart rate characterization and acidosis detection. , 2013, 2013, 2898-901.		4
105	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
106	Learning-induced modulation of scale-free properties of brain activity measured with MEG. , 2013, , .		8
107	Local regularity for texture segmentation: Combining wavelet leaders and proximal minimization. , 2013, , .		8
108	A Dynamical Network View of Lyonâ€™s VÃ©loâ€™ Shared Bicycle System. Modeling and Simulation in Science, Engineering and Technology, 2013, , 267-284.	0.6	11

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109	Renormalization flow for extreme value statistics of random variables raised to a varying power. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 115004.	2.1	5
110	Scale-free and multifractal time dynamics of fMRI signals during rest and task. <i>Frontiers in Physiology</i> , 2012, 3, 186.	2.8	157
111	Modulation of scale-free properties of brain activity in MEC. , 2012, , .		23
112	Using surrogates and optimal transport for synthesis of stationary multivariate series with prescribed covariance function and non-gaussian joint-distribution. , 2012, , .		8
113	Matrix products for the synthesis of stationary time series with a priori prescribed joint distributions. , 2012, , .		2
114	Critical moment definition and estimation, for finite size observation of log-exponential-power law random variables. <i>Signal Processing</i> , 2012, 92, 2848-2865.	3.7	5
115	Ionosphere fluctuations and global indices: A scale dependent wavelet-based cross-correlation analysis. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 90-91, 186-197.	1.6	9
116	Framework for adaptive multiscale analysis of nonhomogeneous point processes. , 2011, 2011, 7727-30.		0
117	Wavelet-based analysis of non-Gaussian long-range dependent processes and estimation of the hurst parameter. <i>Lithuanian Mathematical Journal</i> , 2011, 51, 287-302.	0.4	15
118	Linearization effect in multifractal analysis: Insights from the Random Energy Model. <i>Physica D: Nonlinear Phenomena</i> , 2011, 240, 1245-1253.	2.8	9
119	Fast and exact synthesis of stationary multivariate Gaussian time series using circulant embedding. <i>Signal Processing</i> , 2011, 91, 1123-1133.	3.7	50
120	Synthesis of multivariate stationary series with prescribed marginal distributions and covariance using circulant matrix embedding. <i>Signal Processing</i> , 2011, 91, 1741-1758.	3.7	22
121	Multifractal Analysis of Fetal Heart Rate Variability in Fetuses with and without Severe Acidosis during Labor. <i>American Journal of Perinatology</i> , 2011, 28, 259-266.	1.4	50
122	Detecting oscillating singularities in multifractal analysis: Application to hydrodynamic turbulence. , 2011, , .		5
123	SHARED BICYCLES IN A CITY: A SIGNAL PROCESSING AND DATA ANALYSIS PERSPECTIVE. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2011, 14, 415-438.	1.4	196
124	Scale-dependent analysis of Ionosphere fluctuations. , 2011, , .		2
125	Application of Cardiac Autonomous Indices in the Study of Neurogenic Erectile Dysfunction. <i>Urologia Internationalis</i> , 2011, 86, 290-297.	1.3	0
126	Multifractal analysis of Resting State Networks in functional MRI. , 2011, , .		5

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127	Characterization of Host-Level Application Traffic with Multi-Scale Gamma Model. IEICE Transactions on Communications, 2010, E93-B, 3048-3057.	0.7	1
128	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
129	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
130	Unsupervised host behavior classification from connection patterns. International Journal of Network Management, 2010, 20, 317-337.	2.2	28
131	MAWILab. , 2010, , .		178
132	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
133	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
134	Uncovering Relations between Traffic Classifiers and Anomaly Detectors via Graph Theory. Lecture Notes in Computer Science, 2010, , 101-114.	1.3	3
135	On the Role of Flows and Sessions in Internet Traffic Modeling: An Explorative Toy-Model. , 2009, , .		11
136	Combining multiresolution and random projections for robust statistical analysis and anomaly detection. , 2009, , .		0
137	Multifractal Random Walks as Fractional Wiener Integrals. IEEE Transactions on Information Theory, 2009, 55, 3825-3846.	2.4	17
138	Second order properties of distribution tails and estimation of tail exponents in random difference equations. Extremes, 2009, 12, 361-400.	1.0	6
139	Wavelet leaders and bootstrap for multifractal analysis of images. Signal Processing, 2009, 89, 1100-1114.	3.7	156
140	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
141	Measurement Analysis of the Live E! Sensor Network: Spatial-Temporal Correlations and Data Aggregation. , 2009, , .		1
142	Wavelet Leader multifractal analysis for texture classification. , 2009, , .		28
143	Towards systematic traffic annotation. , 2009, , .		0
144	Comprehensive multifractal analysis of turbulent velocity using the wavelet leaders. European Physical Journal B, 2008, 61, 201-215.	1.5	66

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145	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
146	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
147	Impact of Data Quantization on Empirical Multifractal Analysis. , 2007, , .		1
148	Time-Scale Block Bootstrap Tests for Non Gaussian Finite Variance Self-Similar Processes with Stationary Increments. , 2007, , .		1
149	Extracting hidden anomalies using sketch and non Gaussian multiresolution statistical detection procedures. , 2007, , .		86
150	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
151	Invited Talk: Sketch Based Anomaly Detection, Identification and Performance Evaluation. , 2007, , .		5
152	LEADER-BASED MULTIFRACTAL ANALYSIS FOR EVI fMRI TIME SERIES: ONGOING vs TASK-RELATED BRAIN ACTIVITY. , 2007, , .		3
153	Fractal Dimension Estimation: Empirical Mode Decomposition Versus wavelets. , 2007, , .		6
154	Multifractality Tests Using Bootstrapped Wavelet Leaders. IEEE Transactions on Signal Processing, 2007, 55, 4811-4820.	5.3	97
155	Bootstrap for Empirical Multifractal Analysis. IEEE Signal Processing Magazine, 2007, 24, 38-48.	5.6	232
156	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
157	Empirical mode decomposition to assess cardiovascular autonomic control in rats. Fundamental and Clinical Pharmacology, 2007, 21, 481-496.	1.9	19
158	Une caract�risation non gaussienne et � longue m�moire du trafic Internet et de ses anomalies: validation exp�rimentale et application � la d�tection d'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
159	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
160	Wavelet-based synthesis of the Rosenblatt process. Signal Processing, 2006, 86, 2326-2339.	3.7	34
161	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
162	Wavelet Leaders in Multifractal Analysis. , 2006, , 201-246.		63

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163	Multifractality in TCP/IP traffic: the case against. <i>Computer Networks</i> , 2005, 48, 293-313.	5.1	42
164	On Non-Scale-Invariant Infinitely Divisible Cascades. <i>IEEE Transactions on Information Theory</i> , 2005, 51, 1063-1083.	2.4	66
165	<title>Revisiting scaling, multifractal, and multiplicative cascades with the wavelet leader lens</title>. , 2004, , .		16
166	Can continuous-time stationary stable processes have discrete linear representations?. <i>Statistics and Probability Letters</i> , 2003, 64, 147-157.	0.7	3
167	Cluster processes: a natural language for network traffic. <i>IEEE Transactions on Signal Processing</i> , 2003, 51, 2229-2244.	5.3	81
168	ON THE AUTOMATIC SELECTION OF THE ONSET OF SCALING. <i>Fractals</i> , 2003, 11, 377-390.	3.7	34
169	Scaling and Wavelets: An Introductory Walk. <i>Lecture Notes in Physics</i> , 2003, , 34-60.	0.7	5
170	Does fractal scaling at the IP level depend on TCP flow arrival processes?. , 2002, , .		37
171	Multiscale nature of network traffic. <i>IEEE Signal Processing Magazine</i> , 2002, 19, 28-46.	5.6	217
172	Orthostatic tolerance and spontaneous baroreflex sensitivity in men versus women after 7 days of head-down bed rest. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2002, 100, 66-76.	2.8	69
173	A statistical test for the time constancy of scaling exponents. <i>IEEE Transactions on Signal Processing</i> , 2001, 49, 2325-2334.	5.3	41
174	A stochastic description of extremal dynamics. <i>Europhysics Letters</i> , 2000, 51, 1-7.	2.0	10
175	Stochastic integral representation and properties of the wavelet coefficients of linear fractional stable motion. <i>Stochastic Processes and Their Applications</i> , 2000, 86, 177-182.	0.9	26
176	Meaningful MRA initialization for discrete time series. <i>Signal Processing</i> , 2000, 80, 1971-1983.	3.7	24
177	Intermittency and coherent structures in a swirling flow: A wavelet analysis of joint pressure and velocity measurements. <i>Physics of Fluids</i> , 1999, 11, 3524-3539.	4.0	31
178	A wavelet-based joint estimator of the parameters of long-range dependence. <i>IEEE Transactions on Information Theory</i> , 1999, 45, 878-897.	2.4	390
179	Long-range Dependence: Revisiting Aggregation with Wavelets. <i>Journal of Time Series Analysis</i> , 1998, 19, 253-266.	1.2	103
180	Wavelet analysis of long-range-dependent traffic. <i>IEEE Transactions on Information Theory</i> , 1998, 44, 2-15.	2.4	752

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181	Construction of biorthogonal wavelets starting from any two multiresolutions. IEEE Transactions on Signal Processing, 1998, 46, 1130-1133.	5.3	24
182	<title>Multiresolution entropy measure</title>. , 1997, , .		5
183	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
184	<title>Semi- and biorthogonal MRA-type wavelet designs and their fast algorithms</title>. , 1995, , .		2
185	Designing Multiresolution Analysis-type Wavelets and Their Fast Algorithms. Journal of Fourier Analysis and Applications, 1995, 2, 135-159.	1.0	37
186	Wavelets, spectrum analysis and $1/f$ processes. Lecture Notes in Statistics, 1995, , 15-29.	0.2	105
187	<title>Reassigned scalograms and their fast algorithms</title>. , 1995, 2569, 152.		5
188	On the initialization of the discrete wavelet transform algorithm. IEEE Signal Processing Letters, 1994, 1, 32-34.	3.6	46
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