

# Patrice Abry

## List of Publications by Year in Descending Order

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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.

176  
papers

4,188  
citations

33  
h-index

60  
g-index

200  
ext. papers

5,081  
ext. citations

3.2  
avg, IF

5.55  
L-index

#	Paper	IF	Citations
176	Multivariate multifractal texture DCGAN synthesis: How well does it work? How does one know?. <i>Journal of Signal Processing Systems</i> , <b>2022</b> , 94, 179	1.4	0
175	Functional brain-heart interplay extends to the multifractal domain. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2021</b> , 379, 20200260	3	3
174	Automated Data-Driven Selection of the Hyperparameters for Total-Variation-Based Texture Segmentation. <i>Journal of Mathematical Imaging and Vision</i> , <b>2021</b> , 63, 923-952	1.6	1
173	Neural integration underlying naturalistic prediction flexibly adapts to varying sensory input rate. <i>Nature Communications</i> , <b>2021</b> , 12, 2643	17.4	2
172	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. <i>Frontiers in Pediatrics</i> , <b>2021</b> , 9, 660476	3.4	4
171	Strongly convex optimization for joint fractal feature estimation and texture segmentation. <i>Applied and Computational Harmonic Analysis</i> , <b>2021</b> , 54, 303-322	3.1	0
170	Variational graph autoencoders for multiview canonical correlation analysis. <i>Signal Processing</i> , <b>2021</b> , 188, 108182	4.4	2
169	Who benefits most from Lyon's bike sharing system?. <i>PLoS ONE</i> , <b>2020</b> , 15, e0231550	3.7	0
168	Quantifying Functional Links between Brain and Heartbeat Dynamics in the Multifractal Domain: a Preliminary Analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2020</b> , 2020, 511-514	0.9	4
167	Parameter-free and fast nonlinear piecewise filtering: application to experimental physics. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , <b>2020</b> , 75, 655-671	2	2
166	Spatial and temporal regularization to estimate COVID-19 reproduction number R(t): Promoting piecewise smoothness via convex optimization. <i>PLoS ONE</i> , <b>2020</b> , 15, e0237901	3.7	11
165	Graph-based era segmentation of international financial integration. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2020</b> , 539, 122877	3.3	1
164	Revisiting Functional Connectivity for Infralow Scale-Free Brain Dynamics Using Complex Wavelets. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 578537	4.6	4
163	Spatial and temporal regularization to estimate COVID-19 reproduction number R(t): Promoting piecewise smoothness via convex optimization <b>2020</b> , 15, e0237901		
162	Spatial and temporal regularization to estimate COVID-19 reproduction number R(t): Promoting piecewise smoothness via convex optimization <b>2020</b> , 15, e0237901		
161	Spatial and temporal regularization to estimate COVID-19 reproduction number R(t): Promoting piecewise smoothness via convex optimization <b>2020</b> , 15, e0237901		
160	Spatial and temporal regularization to estimate COVID-19 reproduction number R(t): Promoting piecewise smoothness via convex optimization <b>2020</b> , 15, e0237901		

159	LEPageRank for semi-supervised learning. <i>Applied Network Science</i> , <b>2019</b> , 4,	2.9	9
158	Nonlinear denoising for characterization of solid friction under low confinement pressure. <i>Physical Review E</i> , <b>2019</b> , 100, 032803	2.4	5
157	Multifractal formalisms for multivariate analysis. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2019</b> , 475, 20190150	2.4	3
156	Probing High-Order Dependencies With Information Theory. <i>IEEE Transactions on Signal Processing</i> , <b>2019</b> , 67, 3796-3805	4.8	3
155	Multivariate scale-free temporal dynamics: From spectral (Fourier) to fractal (wavelet) analysis. <i>Comptes Rendus Physique</i> , <b>2019</b> , 20, 489-501	1.4	4
154	BGP Zombies: An Analysis of Beacons Stuck Routes. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 197-209	0.9	4
153	Two-step wavelet-based estimation for Gaussian mixed fractional processes. <i>Statistical Inference for Stochastic Processes</i> , <b>2019</b> , 22, 157-185	0.7	4
152	A Generalized Multifractal Formalism for the Estimation of Nonconcave Multifractal Spectra. <i>IEEE Transactions on Signal Processing</i> , <b>2019</b> , 67, 110-119	4.8	2
151	Multivariate multifractal analysis. <i>Applied and Computational Harmonic Analysis</i> , <b>2019</b> , 46, 653-663	3.1	7
150	Wavelet p-Leader Non Gaussian Multiscale Expansions for Heart Rate Variability Analysis in Congestive Heart Failure Patients. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2019</b> , 66, 80-88	5	11
149	Sparse learning for Intrapartum fetal heart rate analysis. <i>Biomedical Physics and Engineering Express</i> , <b>2018</b> , 4, 034002	1.5	4
148	Neural Integration of Stimulus History Underlies Prediction for Naturalistically Evolving Sequences. <i>Journal of Neuroscience</i> , <b>2018</b> , 38, 1541-1557	6.6	10
147	Mortality Prediction in Severe Congestive Heart Failure Patients with Multifractal Point-Process Modeling of Heartbeat Dynamics. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2018</b> , 65, 2345-2354	5	21
146	Wavelet eigenvalue regression for n-variate operator fractional Brownian motion. <i>Journal of Multivariate Analysis</i> , <b>2018</b> , 168, 75-104	1.4	5
145	Multifractal Analysis of Multivariate Images Using Gamma Markov Random Field Priors. <i>SIAM Journal on Imaging Sciences</i> , <b>2018</b> , 11, 1294-1316	1.9	2
144	Scattering Transform of Heart Rate Variability for the Prediction of Ischemic Stroke in Patients with Atrial Fibrillation. <i>Methods of Information in Medicine</i> , <b>2018</b> , 57, 141-145	1.5	2
143	Wavelet estimation for operator fractional Brownian motion. <i>Bernoulli</i> , <b>2018</b> , 24,	1.6	18
142	Detecting and Estimating Multivariate Self-Similar Sources in High-Dimensional Noisy Mixtures <b>2018</b> ,		2

141	Joint Estimation of Local Variance and Local Regularity for Texture Segmentation. Application to Multiphase Flow Characterization <b>2018</b> ,		1
140	Self-similarity and multifractality in human brain activity: A wavelet-based analysis of scale-free brain dynamics. <i>Journal of Neuroscience Methods</i> , <b>2018</b> , 309, 175-187	3	18
139	Wavelet Domain Bootstrap for Testing the Equality of Bivariate Self-Similarity Exponents <b>2018</b> ,		1
138	Sparse Support Vector Machine for Intrapartum Fetal Heart Rate Classification. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2017</b> , 21, 664-671	7.2	42
137	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2017</b> , 18, 2377-2386	6.1	25
136	Finite-Resolution Effects in $\mathbb{S}^p$ -Leader Multifractal Analysis. <i>IEEE Transactions on Signal Processing</i> , <b>2017</b> , 65, 3359-3368	4.8	7
135	A Primal-Dual Algorithm for Link Dependent Origin Destination Matrix Estimation. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , <b>2017</b> , 3, 104-113	2.8	10
134	. <i>IEEE/ACM Transactions on Networking</i> , <b>2017</b> , 25, 2152-2165	3.8	38
133	Bayesian-driven criterion to automatically select the regularization parameter in the $\ell_1$ -Potts model <b>2017</b> ,		3
132	Multivariate Hadamard self-similarity: Testing fractal connectivity. <i>Physica D: Nonlinear Phenomena</i> , <b>2017</b> , 356-357, 1-36	3.3	13
131	Bayesian Selection for the $\ell_1$ -Potts Model Regularization Parameter: 1-D Piecewise Constant Signal Denoising. <i>IEEE Transactions on Signal Processing</i> , <b>2017</b> , 65, 5215-5224	4.8	8
130	Mutual information for intrapartum fetal heart rate analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 2014-2017	0.9	2
129	Spatially regularized multifractal analysis for fMRI data. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2017</b> , 2017, 3769-3772	0.9	3
128	Information Theory to Probe Intrapartum Fetal Heart Rate Dynamics. <i>Entropy</i> , <b>2017</b> , 19, 640	2.8	13
127	Point Processes, Long-Range Dependence and Wavelets <b>2017</b> , 413-438		1
126	Small and large scale behavior of moments of Poisson cluster processes. <i>ESAIM - Probability and Statistics</i> , <b>2017</b> , 21, 369-393	0.4	0
125	Generalized Legendre transform multifractal formalism for nonconcave spectrum estimation <b>2016</b> ,		2
124	Non-linear regression for bivariate self-similarity identification [application to anomaly detection in Internet traffic based on a joint scaling analysis of packet and byte counts <b>2016</b> ,		3

123	Non-Linear Wavelet Regression and Branch & Bound Optimization for the Full Identification of Bivariate Operator Fractional Brownian Motion. <i>IEEE Transactions on Signal Processing</i> , <b>2016</b> , 64, 4040-4049	4.8	4
122	On-The-Fly Approximation of Multivariate Total Variation Minimization. <i>IEEE Transactions on Signal Processing</i> , <b>2016</b> , 64, 2355-2364	4.8	3
121	Multiscale Analysis of Intensive Longitudinal Biomedical Signals and Its Clinical Applications. <i>Proceedings of the IEEE</i> , <b>2016</b> , 104, 242-261	14.3	38
120	Covariance Versus Precision Matrix Estimation for Efficient Asset Allocation. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2016</b> , 10, 982-993	7.5	7
119	Intrapartum Fetal Heart Rate Classification: Cross-Database Evaluation. <i>IFMBE Proceedings</i> , <b>2016</b> , 1199-1204	12.0	2
118	p-exponent and p-leaders, Part I: Negative pointwise regularity. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2016</b> , 448, 300-318	3.3	27
117	p-exponent and p-leaders, Part II: Multifractal analysis. Relations to detrended fluctuation analysis. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2016</b> , 448, 319-339	3.3	24
116	Multifractal-based texture segmentation using variational procedure <b>2016</b> ,		2
115	. <i>IEEE Transactions on Computational Imaging</i> , <b>2016</b> , 1-1	4.5	3
114	Multiscale Anisotropic Texture Analysis and Classification of Photographic Prints: Art scholarship meets image processing algorithms. <i>IEEE Signal Processing Magazine</i> , <b>2015</b> , 32, 18-27	9.4	22
113	. <i>IEEE Signal Processing Magazine</i> , <b>2015</b> , 32, 14-16	9.4	3
112	Bayesian estimation of the multifractality parameter for image texture using a whittle approximation. <i>IEEE Transactions on Image Processing</i> , <b>2015</b> , 24, 2540-51	8.7	6
111	Irregularities and scaling in signal and image processing: multifractal analysis. <i>Fractals and Dynamics in Mathematics, Science and the Arts</i> , <b>2015</b> , 31-116	0.1	7
110	Hyperspectral image analysis using multifractal attributes <b>2015</b> ,		3
109	The hyperbolic wavelet transform: an efficient tool for multifractal analysis of anisotropic fields. <i>Revista Matematica Iberoamericana</i> , <b>2015</b> , 31, 313-348	1.2	9
108	Fractal Analysis and Hurst Parameter for Intrapartum Fetal Heart Rate Variability Analysis: A Versatile Alternative to Frequency Bands and LF/HF Ratio. <i>PLoS ONE</i> , <b>2015</b> , 10, e0136661	3.7	36
107	Demixing multivariate-operator self-similar processes <b>2015</b> ,		4
106	Multifractal Analysis Based on p-Exponents and Lacunarity Exponents. <i>Progress in Probability</i> , <b>2015</b> , 279-313		3

105	From bicycle sharing system movements to users: a typology of $V_{lb}$ cyclists in Lyon based on large-scale behavioural dataset. <i>Journal of Transport Geography</i> , <b>2014</b> , 41, 280-291	5.2	60
104	Scattering transform for intrapartum fetal heart rate variability fractal analysis: a case-control study. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2014</b> , 61, 1100-8	5	43
103	PURSUING AUTOMATED CLASSIFICATION OF HISTORIC PHOTOGRAPHIC PAPERS FROM RAKING LIGHT IMAGES. <i>Journal of the American Institute for Conservation</i> , <b>2014</b> , 53, 159-170	0.6	11
102	Scaling range automated selection for wavelet leader multifractal analysis. <i>Signal Processing</i> , <b>2014</b> , 105, 243-257	4.4	6
101	Interplay between functional connectivity and scale-free dynamics in intrinsic fMRI networks. <i>NeuroImage</i> , <b>2014</b> , 95, 248-63	7.9	79
100	Large deviations for correlated random variables described by a matrix product ansatz. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2014</b> , 2014, P02003	1.9	3
99	Smoothing Windows for the Synthesis of Gaussian Stationary Random Fields Using Circulant Matrix Embedding. <i>Journal of Computational and Graphical Statistics</i> , <b>2014</b> , 23, 616-635	1.4	6
98	Inverse problem formulation for regularity estimation in images <b>2014</b> ,		2
97	Network application profiling with traffic causality graphs. <i>International Journal of Network Management</i> , <b>2014</b> , 24, 289-303	1.8	10
96	General Limit Distributions for Sums of Random Variables with a Matrix Product Representation. <i>Journal of Statistical Physics</i> , <b>2014</b> , 157, 1255-1283	1.5	4
95	Synoptic Graphlet: Bridging the Gap Between Supervised and Unsupervised Profiling of Host-Level Network Traffic. <i>IEEE/ACM Transactions on Networking</i> , <b>2013</b> , 21, 1284-1297	3.8	12
94	When Van Gogh meets Mandelbrot: Multifractal classification of painting's texture. <i>Signal Processing</i> , <b>2013</b> , 93, 554-572	4.4	45
93	Self-similar anisotropic texture analysis: the hyperbolic wavelet transform contribution. <i>IEEE Transactions on Image Processing</i> , <b>2013</b> , 22, 4353-63	8.7	39
92	On the existence of a glass transition in a random energy model. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2013</b> , 46, 315002	2	1
91	Statistics of sums of correlated variables described by a matrix product ansatz. <i>Europhysics Letters</i> , <b>2013</b> , 104, 50009	1.6	4
90	Hurst exponent and intrapartum fetal heart rate: Impact of decelerations <b>2013</b> ,		13
89	<b>2013</b> ,		4
88	Scattering transform for intrapartum fetal heart rate characterization and acidosis detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 2898-901	0.9	2

87	Random Vector and Time Series Definition and Synthesis From Matrix Product Representations: From Statistical Physics to Hidden Markov Models. <i>IEEE Transactions on Signal Processing</i> , <b>2013</b> , 61, 5389-5400	4.8	6
86	Learning-induced modulation of scale-free properties of brain activity measured with MEG <b>2013</b> ,		7
85	<b>2013</b> ,		7
84	A Dynamical Network View of Lyon's Shared Bicycle System. <i>Modeling and Simulation in Science, Engineering and Technology</i> , <b>2013</b> , 267-284	0.8	8
83	Critical moment definition and estimation, for finite size observation of log-exponential-power law random variables. <i>Signal Processing</i> , <b>2012</b> , 92, 2848-2865	4.4	5
82	Ionosphere fluctuations and global indices: A scale dependent wavelet-based cross-correlation analysis. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2012</b> , 90-91, 186-197	2	9
81	Renormalization flow for extreme value statistics of random variables raised to a varying power. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2012</b> , 45, 115004	2	5
80	Scale-Free and Multifractal Time Dynamics of fMRI Signals during Rest and Task. <i>Frontiers in Physiology</i> , <b>2012</b> , 3, 186	4.6	104
79	Modulation of scale-free properties of brain activity in MEG <b>2012</b> ,		16
78	Using surrogates and optimal transport for synthesis of stationary multivariate series with prescribed covariance function and non-gaussian joint-distribution <b>2012</b> ,		8
77	Matrix products for the synthesis of stationary time series with a priori prescribed joint distributions <b>2012</b> ,		2
76	Framework for adaptive multiscale analysis of nonhomogeneous point processes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 7727-30	0.9	
75	Wavelet-based analysis of non-Gaussian long-range dependent processes and estimation of the hurst parameter. <i>Lithuanian Mathematical Journal</i> , <b>2011</b> , 51, 287-302	0.5	12
74	Linearization effect in multifractal analysis: Insights from the Random Energy Model. <i>Physica D: Nonlinear Phenomena</i> , <b>2011</b> , 240, 1245-1253	3.3	9
73	Fast and exact synthesis of stationary multivariate Gaussian time series using circulant embedding. <i>Signal Processing</i> , <b>2011</b> , 91, 1123-1133	4.4	43
72	Synthesis of multivariate stationary series with prescribed marginal distributions and covariance using circulant matrix embedding. <i>Signal Processing</i> , <b>2011</b> , 91, 1741-1758	4.4	19
71	Multifractal analysis of fetal heart rate variability in fetuses with and without severe acidosis during labor. <i>American Journal of Perinatology</i> , <b>2011</b> , 28, 259-66	3.3	41
70	Detecting oscillating singularities in multifractal analysis: Application to hydrodynamic turbulence <b>2011</b> ,		5



69	SHARED BICYCLES IN A CITY: A SIGNAL PROCESSING AND DATA ANALYSIS PERSPECTIVE. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , <b>2011</b> , 14, 415-438	0.8	156
68	Scale-dependent analysis of Ionosphere fluctuations <b>2011</b> ,		2
67	Application of cardiac autonomous indices in the study of neurogenic erectile dysfunction. <i>Urologia Internationalis</i> , <b>2011</b> , 86, 290-7	1.9	
66	Multifractal analysis of Resting State Networks in functional MRI <b>2011</b> ,		4
65	Function Spaces Vs. Scaling Functions: Tools for Image Classification. <i>Springer Proceedings in Mathematics</i> , <b>2011</b> , 1-39		10
64	MAWILab <b>2010</b> ,		123
63	Investigating Self-Similarity and Heavy-Tailed Distributions on a Large-Scale Experimental Facility. <i>IEEE/ACM Transactions on Networking</i> , <b>2010</b> , 18, 1261-1274	3.8	32
62	Characterization of Host-Level Application Traffic with Multi-Scale Gamma Model. <i>IEICE Transactions on Communications</i> , <b>2010</b> , E93-B, 3048-3057	0.5	1
61	Revisiting an old friend: on the observability of the relation between long range dependence and heavy tail. <i>Telecommunication Systems</i> , <b>2010</b> , 43, 147-165	2.3	32
60	Assessing erectile neurogenic dysfunction from heart rate variability through a Generalized Linear Mixed Model Framework. <i>Computer Methods and Programs in Biomedicine</i> , <b>2010</b> , 99, 49-56	6.9	10
59	Unsupervised host behavior classification from connection patterns. <i>International Journal of Network Management</i> , <b>2010</b> , 20, 317-337	1.8	20
58	On the impact of the number of vanishing moments on the dependence structures of compound Poisson motion and fractional Brownian motion in multifractal time. <i>Lecture Notes in Statistics</i> , <b>2010</b> , 71-101	2.9	3
57	Uncovering Relations between Traffic Classifiers and Anomaly Detectors via Graph Theory. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 101-114	0.9	3
56	On the Role of Flows and Sessions in Internet Traffic Modeling: An Explorative Toy-Model <b>2009</b> ,		10
55	Multifractal Random Walks as Fractional Wiener Integrals. <i>IEEE Transactions on Information Theory</i> , <b>2009</b> , 55, 3825-3846	2.8	15
54	Second order properties of distribution tails and estimation of tail exponents in random difference equations. <i>Extremes</i> , <b>2009</b> , 12, 361-400	0.7	6
53	Wavelet leaders and bootstrap for multifractal analysis of images. <i>Signal Processing</i> , <b>2009</b> , 89, 1100-1114	4.4	116
52	Wavelet Decomposition of Measures: Application to Multifractal Analysis of Images. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2009</b> , 1-20	0.2	1



51	Wavelet Leader multifractal analysis for texture classification <b>2009</b> ,		21
50	Log Wavelet Leaders Cumulant Based Multifractal Analysis of EVI fMRI Time Series: Evidence of Scaling in Ongoing and Evoked Brain Activity. <i>IEEE Journal on Selected Topics in Signal Processing</i> , <b>2008</b> , 2, 929-943	7.5	36
49	Comprehensive multifractal analysis of turbulent velocity using the wavelet leaders. <i>European Physical Journal B</i> , <b>2008</b> , 61, 201-215	1.2	57
48	Fractal Dimension Estimation: Empirical Mode Decomposition Versus wavelets <b>2007</b> ,		2
47	Multifractality Tests Using Bootstrapped Wavelet Leaders. <i>IEEE Transactions on Signal Processing</i> , <b>2007</b> , 55, 4811-4820	4.8	66
46	Bootstrap for Empirical Multifractal Analysis. <i>IEEE Signal Processing Magazine</i> , <b>2007</b> , 24, 38-48	9.4	168
45	Acoustic-gravity waves during solar eclipses: Detection and characterization using wavelet transforms. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2007</b> , 69, 2465-2484	2	21
44	Empirical mode decomposition to assess cardiovascular autonomic control in rats. <i>Fundamental and Clinical Pharmacology</i> , <b>2007</b> , 21, 481-96	3.1	16
43	Une caractérisation non gaussienne et à longue mémoire du trafic Internet et de ses anomalies: validation expérimentale et application à la détection d'attaque de DDoS/Non Gaussian Long Memory Model for Internet Traffic: Experimental Validation and Application to DDoS Detection. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , <b>2007</b> , 62, 1401-1428	2	2
42	Impact of Data Quantization on Empirical Multifractal Analysis <b>2007</b> ,		1
41	Time-Scale Block Bootstrap Tests for Non Gaussian Finite Variance Self-Similar Processes with Stationary Increments <b>2007</b> ,		1
40	Extracting hidden anomalies using sketch and non Gaussian multiresolution statistical detection procedures <b>2007</b> ,		72
39	Non-Gaussian and Long Memory Statistical Characterizations for Internet Traffic with Anomalies. <i>IEEE Transactions on Dependable and Secure Computing</i> , <b>2007</b> , 4, 56-70	3.9	77
38	Invited Talk: Sketch Based Anomaly Detection, Identification and Performance Evaluation <b>2007</b> ,		4
37	<b>2007</b> ,		3
36	Wavelet Analysis of Nonlinear Long-Range Dependent Processes. Applications to Financial Time Series <b>2007</b> , 173-238		1
35	Bounds for the covariance of functions of infinite variance stable random variables with applications to central limit theorems and wavelet-based estimation. <i>Bernoulli</i> , <b>2007</b> , 13,	1.6	14
34	Wavelet-based synthesis of the Rosenblatt process. <i>Signal Processing</i> , <b>2006</b> , 86, 2326-2339	4.4	25

33	Detection of the wave-like structures in the F-region electron density: Two station measurements. <i>Studia Geophysica Et Geodaetica</i> , <b>2006</b> , 50, 131-146	0.7	21
32	Wavelet Leaders in Multifractal Analysis <b>2006</b> , 201-246		33
31	Multifractality in TCP/IP traffic: the case against. <i>Computer Networks</i> , <b>2005</b> , 48, 293-313	5.4	36
30	On non-scale-invariant infinitely divisible cascades. <i>IEEE Transactions on Information Theory</i> , <b>2005</b> , 51, 1063-1083	2.8	53
29	Revisiting scaling, multifractal, and multiplicative cascades with the wavelet leader lens <b>2004</b> ,		11
28	ON THE AUTOMATIC SELECTION OF THE ONSET OF SCALING. <i>Fractals</i> , <b>2003</b> , 11, 377-390	3.2	28
27	Can continuous-time stationary stable processes have discrete linear representations?. <i>Statistics and Probability Letters</i> , <b>2003</b> , 64, 147-157	0.6	3
26	. <i>IEEE Transactions on Signal Processing</i> , <b>2003</b> , 51, 2229-2244	4.8	60
25	Scaling and Wavelets: An Introductory Walk. <i>Lecture Notes in Physics</i> , <b>2003</b> , 34-60	0.8	1
24	Does fractal scaling at the IP level depend on TCP flow arrival processes? <b>2002</b> ,		23
23	. <i>IEEE Signal Processing Magazine</i> , <b>2002</b> , 19, 28-46	9.4	163
22	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> , <b>2002</b> , 100, 66-76	2.4	53
21	A statistical test for the time constancy of scaling exponents. <i>IEEE Transactions on Signal Processing</i> , <b>2001</b> , 49, 2325-2334	4.8	34
20	A stochastic description of extremal dynamics. <i>Europhysics Letters</i> , <b>2000</b> , 51, 1-7	1.6	9
19	Stochastic integral representation and properties of the wavelet coefficients of linear fractional stable motion. <i>Stochastic Processes and Their Applications</i> , <b>2000</b> , 86, 177-182	1.1	18
18	Meaningful MRA initialization for discrete time series. <i>Signal Processing</i> , <b>2000</b> , 80, 1971-1983	4.4	23
17	Intermittency and coherent structures in a swirling flow: A wavelet analysis of joint pressure and velocity measurements. <i>Physics of Fluids</i> , <b>1999</b> , 11, 3524-3539	4.4	28
16	A wavelet-based joint estimator of the parameters of long-range dependence. <i>IEEE Transactions on Information Theory</i> , <b>1999</b> , 45, 878-897	2.8	269

15	Wavelets for Scaling Processes <b>1999</b> , 47-64		3
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12	Construction of biorthogonal wavelets starting from any two multiresolutions. <i>IEEE Transactions on Signal Processing</i> , <b>1998</b> , 46, 1130-1133	4.8	19
11	Multiresolution entropy measure <b>1997</b> ,		5
10	The Wavelet-Based Synthesis for Fractional Brownian Motion Proposed by F. Sellan and Y. Meyer: Remarks and Fast Implementation. <i>Applied and Computational Harmonic Analysis</i> , <b>1996</b> , 3, 377-383	3.1	146
9	Designing Multiresolution Analysis-type Wavelets and Their Fast Algorithms. <i>Journal of Fourier Analysis and Applications</i> , <b>1995</b> , 2, 135-159	1.1	27
8	Wavelets, spectrum analysis and 1/f processes. <i>Lecture Notes in Statistics</i> , <b>1995</b> , 15-29	2.9	78
7	Reassigned scalograms and their fast algorithms <b>1995</b> , 2569, 152		3
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5	. <i>IEEE Signal Processing Letters</i> , <b>1994</b> , 1, 32-34	3.2	34
4	Scale Invariance and Wavelets 71-102		1
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