

Herwig Wendt

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.

59
papers

832
citations

13
h-index

27
g-index

73
ext. papers

1,094
ext. citations

3.6
avg, IF

4.19
L-index

#	Paper	IF	Citations
59	Functional brain-heart interplay extends to the multifractal domain. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200260	3	3
58	Learning Event Representations for Temporal Segmentation of Image Sequences by Dynamic Graph Embedding. <i>IEEE Transactions on Image Processing</i> , 2021 , 30, 1476-1486	8.7	2
57	Deconvolution for Improved Multifractal Characterization of Tissues in Ultrasound Imaging 2020 ,		2
56	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> , 2020 , 2020, 561-564	0.9	4
55	Revisiting Functional Connectivity for Infralow Scale-Free Brain Dynamics Using Complex Wavelets. <i>Frontiers in Physiology</i> , 2020 , 11, 578537	4.6	4
54	On Multifractal Tissue Characterization in Ultrasound Imaging 2019 ,		1
53	Multifractal formalisms for multivariate analysis. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019 , 475, 20190150	2.4	3
52	Multivariate scale-free temporal dynamics: From spectral (Fourier) to fractal (wavelet) analysis. <i>Comptes Rendus Physique</i> , 2019 , 20, 489-501	1.4	4
51	A Generalized Multifractal Formalism for the Estimation of Nonconcave Multifractal Spectra. <i>IEEE Transactions on Signal Processing</i> , 2019 , 67, 110-119	4.8	2
50	Multivariate multifractal analysis. <i>Applied and Computational Harmonic Analysis</i> , 2019 , 46, 653-663	3.1	7
49	Wavelet p-Leader Non Gaussian Multiscale Expansions for Heart Rate Variability Analysis in Congestive Heart Failure Patients. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 80-88	5	11
48	Mortality Prediction in Severe Congestive Heart Failure Patients with Multifractal Point-Process Modeling of Heartbeat Dynamics. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 2345-2354	5	21
47	Multifractal Analysis of Multivariate Images Using Gamma Markov Random Field Priors. <i>SIAM Journal on Imaging Sciences</i> , 2018 , 11, 1294-1316	1.9	2
46	Scattering Transform of Heart Rate Variability for the Prediction of Ischemic Stroke in Patients with Atrial Fibrillation. <i>Methods of Information in Medicine</i> , 2018 , 57, 141-145	1.5	2
45	Jacobi Algorithm for Nonnegative Matrix Factorization with Transform Learning 2018 ,		1
44	Detecting and Estimating Multivariate Self-Similar Sources in High-Dimensional Noisy Mixtures 2018 ,		2
43	Nonnegative Matrix Factorization with Transform Learning 2018 ,		7

42	Wavelet Domain Bootstrap for Testing the Equality of Bivariate Self-Similarity Exponents 2018 ,		1
41	Finite-Resolution Effects in \mathbb{S}^p -Leader Multifractal Analysis. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 3359-3368	4.8	7
40	. <i>IEEE/ACM Transactions on Networking</i> , 2017 , 25, 2152-2165	3.8	38
39	Bayesian-driven criterion to automatically select the regularization parameter in the ℓ_1 -Potts model 2017 ,		3
38	Multivariate Hadamard self-similarity: Testing fractal connectivity. <i>Physica D: Nonlinear Phenomena</i> , 2017 , 356-357, 1-36	3.3	13
37	Bayesian Selection for the ℓ_1 -Potts Model Regularization Parameter: 1-D Piecewise Constant Signal Denoising. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 5215-5224	4.8	8
36	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> , 2017 , 2017, 3769-3772	0.9	3
35	New Exponents for Pointwise Singularity Classification. <i>Trends in Mathematics</i> , 2017 , 1-37	0.3	1
34	Generalized Legendre transform multifractal formalism for nonconcave spectrum estimation 2016 ,		2
33	Detection and Correction of Glitches in a Multiplexed Multichannel Data Stream Application to the MADRAS Instrument. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 2803-2811	8.1	
32	Multiscale Analysis of Intensive Longitudinal Biomedical Signals and Its Clinical Applications. <i>Proceedings of the IEEE</i> , 2016 , 104, 242-261	14.3	38
31	On a fixed-point algorithm for structured low-rank approximation and estimation of half-life parameters 2016 ,		1
30	p-exponent and p-leaders, Part I: Negative pointwise regularity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 448, 300-318	3.3	27
29	p-exponent and p-leaders, Part II: Multifractal analysis. Relations to detrended fluctuation analysis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 448, 319-339	3.3	24
28	Multifractal-based texture segmentation using variational procedure 2016 ,		2
27	. <i>IEEE Transactions on Computational Imaging</i> , 2016 , 1-1	4.5	3
26	Multiscale Anisotropic Texture Analysis and Classification of Photographic Prints: Art scholarship meets image processing algorithms. <i>IEEE Signal Processing Magazine</i> , 2015 , 32, 18-27	9.4	22
25	Bayesian estimation of the multifractality parameter for image texture using a whittle approximation. <i>IEEE Transactions on Image Processing</i> , 2015 , 24, 2540-51	8.7	6

24	Multiscale Reverse-Time-Migration-Type Imaging Using the Dyadic Parabolic Decomposition of Phase Space. <i>SIAM Journal on Imaging Sciences</i> , 2015 , 8, 2383-2411	1.9	1
23	A method for 3D direction of arrival estimation for general arrays using multiple frequencies 2015 ,		3
22	Hyperspectral image analysis using multifractal attributes 2015 ,		3
21	Multifractal Analysis Based on p-Exponents and Lacunarity Exponents. <i>Progress in Probability</i> , 2015 , 279-313		3
20	A New Frequency Estimation Method for Equally and Unequally Spaced Data. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 5761-5774	4.8	33
19	PURSUIING AUTOMATED CLASSIFICATION OF HISTORIC PHOTOGRAPHIC PAPERS FROM RAKING LIGHT IMAGES. <i>Journal of the American Institute for Conservation</i> , 2014 , 53, 159-170	0.6	11
18	Inverse problem formulation for regularity estimation in images 2014 ,		2
17	Multiscale Discrete Approximations of Fourier Integral Operators Associated with Canonical Transformations and Caustics. <i>Multiscale Modeling and Simulation</i> , 2013 , 11, 566-585	1.8	9
16	When Van Gogh meets Mandelbrot: Multifractal classification of painting's texture. <i>Signal Processing</i> , 2013 , 93, 554-572	4.4	45
15	2013 ,		4
14	2013 ,		7
13	On an iterative method for direction of arrival estimation using multiple frequencies 2013 ,		3
12	Multiscale Discrete Approximation of Fourier Integral Operators. <i>Multiscale Modeling and Simulation</i> , 2012 , 10, 111-145	1.8	8
11	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> , 2010 , 71-101	2.9	3
10	Second order properties of distribution tails and estimation of tail exponents in random difference equations. <i>Extremes</i> , 2009 , 12, 361-400	0.7	6
9	Wavelet leaders and bootstrap for multifractal analysis of images. <i>Signal Processing</i> , 2009 , 89, 1100-1114	4.4	116
8	Wavelet Decomposition of Measures: Application to Multifractal Analysis of Images. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2009 , 1-20	0.2	1
7	Wavelet Leader multifractal analysis for texture classification 2009 ,		21

6	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> , 2008 , 2, 929-943	7.5	36
5	Multifractality Tests Using Bootstrapped Wavelet Leaders. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 4811-4820	4.8	66
4	Bootstrap for Empirical Multifractal Analysis. <i>IEEE Signal Processing Magazine</i> , 2007 , 24, 38-48	9.4	168
3	Impact of Data Quantization on Empirical Multifractal Analysis 2007 ,		1
2	Time-Scale Block Bootstrap Tests for Non Gaussian Finite Variance Self-Similar Processes with Stationary Increments 2007 ,		1
1	2007 ,		3