Zhihua Yang

List of Publications by Year
in descending order

40 papers	566 citations	933447 10 h-index	713466 21 g-index
40 all docs	40 docs citations	40 times ranked	411 citing authors

#	Article	IF	Citations
1	Approximation properties of Gaussian-binary restricted Boltzmann machines and Gaussian-binary deep belief networks. Neural Networks, 2022, 153, 49-63.	5.9	4
2	Graph Fourier transform based on â„“1 norm variation minimization. Applied and Computational Harmonic Analysis, 2021, 52, 348-365.	2.2	12
3	IF2CNN: Towards non-stationary time series feature extraction by integrating iterative filtering and convolutional neural networks. Expert Systems With Applications, 2021, 170, 114527.	7.6	10
4	Approximation theorems on graphs. Journal of Approximation Theory, 2021, 270, 105620.	0.8	3
5	An orthogonal partition selection strategy for the sampling of graph signals with successive local aggregations. Signal Processing, 2021, 188, 108211.	3.7	4
6	Efficient Node Selection Strategy for Sampling Bandlimited Signals on Graphs. IEEE Transactions on Signal Processing, 2021, 69, 5815-5829.	5.3	7
7	A Reconstruction Method for Graph Signals Based on the Power Spectral Density Estimation. , 2021, 122, 103347.		7
8	Major depressive disorder identification by referenced multiset canonical correlation analysis with clinical scores. Medical Image Analysis, 2020, 60, 101600.	11.6	5
9	Towards the representational power of restricted Boltzmann machines. Neurocomputing, 2020, 415, 358-367.	5.9	3
10	A new prediction method for recommendation system based on sampling reconstruction of signal on graph. Expert Systems With Applications, 2020, 159, 113587.	7.6	5
11	Reconstruction of bandlimited graph signals from measurements. , 2020, 101, 102728.		9
12	EMD2FNN: A strategy combining empirical mode decomposition and factorization machine based neural network for stock market trend prediction. Expert Systems With Applications, 2019, 115, 136-151.	7.6	107
13	On the Representational Power of Restricted Boltzmann Machines for Symmetric Functions and Boolean Functions. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1335-1347.	11.3	12
14	Hilbert spectrum analysis of piecewise stationary signals and its application to texture classification. , 2018, 82, 1-10.		5
15	Mono-frequency signals: Model and construction. , 2017, 69, 185-192.		2
16	Constructions of Ïµ-mono-components and mathematical analysis on signal decomposition algorithm. Applied Mathematics and Computation, 2017, 293, 555-564.	2.2	1
17	A CCA and ICA-Based Mixture Model for Identifying Major Depression Disorder. IEEE Transactions on Medical Imaging, 2017, 36, 745-756.	8.9	12
18	A unified mathematical treatment for Bedrosian identity. , 2016, , .		0

#	Article	IF	Citations
19	Optimal averages for nonlinear signal decompositionsâ€”Another alternative for empirical mode decomposition. Signal Processing, 2016, 121, 17-29.	3.7	19
20	Best twoâ€parameter rational approximation algorithm of given order: a variation of adaptive Fourier decomposition. Mathematical Methods in the Applied Sciences, 2015, 38, 2816-2829.	2.3	2
21	The theoretical analysis for an iterative envelope algorithm. , 2015, 38, 32-42.		2
22	<formula formulatype="inline"><tex Notation="TeX">$epsilon$</tex> </formula>-Mono-Component: Its Characterization and Construction. IEEE Transactions on Signal Processing, 2015, 63, 234-243.	5.3	6
23	The model and construction of weak IMFs. Computational and Applied Mathematics, 2015, 34, 661-670.	1.3	5
24	A new bidimensional EMD algorithmand its applications. , 2014, , .		0
25	A novel envelope model based on convex constrained optimization. , 2014, 29, 138-146.		14
26	VakmanÊ¼s problem and the extension of Hilbert transform. Applied and Computational Harmonic Analysis, 2013, 34, 308-316.	2.2	10
27	An improved envelope algorithm for eliminating undershoots. , 2013, 23, 401-411.		15
28	The structures of some typical intrinsic mode functions. Mathematical Methods in the Applied Sciences, 2012, 35, 2075-2084.	2.3	4
29	Approximation by the nonlinear Fourier basis. Science China Mathematics, 2011, 54, 1207-1214.	1.7	7
30	Vakman's analysis inL²(â„). International Journal of Computer Mathematics, 2011, 88, 545-554.	1.8	8
31	An oblique-extrema-based approach for empirical mode decomposition. , 2010, 20, 699-714.		16
32	Rational orthogonal bases satisfying the Bedrosian identity. Advances in Computational Mathematics, 2010, 33, 285-303.	1.6	23
33	The structure of instantaneous frequencies of periodic analytic signals. Science China Mathematics, 2010, 53, 347-355.	1.7	10
34	Construction of periodic analytic signals satisfying the circular Bedrosian identity. IMA Journal of Applied Mathematics, 2010, 75, 246-256.	1.6	9
35	Hilbert-Huang Transform: Its Background, Algorithms and Applications. Series in Contemporary Applied Mathematics, 2010, , 138-178.	0.8	0
36	CONVERGENCE OF A CONVOLUTION-FILTERING-BASED ALGORITHM FOR EMPIRICAL MODE DECOMPOSITION. Advances in Adaptive Data Analysis, 2009, 01, 561-571.	0.6	21

#	ARTICLE	IF	CITATIONS
37	The Bedrosian identity for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mi mathvariant="bold">H</mml:mi><mml:mi>p</mml:mi></mml:msup></mml:math>functions. Journal of Mathematical Analysis and Applications, 2008, 345, 975-984.	1.0	26
38	A method to eliminate riding waves appearing in the empirical AM/FM demodulation. , 2008, 18, 488-504.		26
39	Robust Image Watermarking Based on Multiband Wavelets and Empirical Mode Decomposition. IEEE Transactions on Image Processing, 2007, 16, 1956-1966.	9.8	134
40	Orthogonality in Banach spaces and orthogonal multiscaleL 1-approximation. Science Bulletin, 1999, 44, 25-35.	1.7	1