Xia Hong

List of Publications by Year
in descending order

75 papers	**1,530** citations	430442 **18** h-index	344852 **36** g-index
76 all docs	**76** docs citations	**76** times ranked	**1318** citing authors

#	Article	IF	Citations
1	Continual Learning for Multimode Dynamic Process Monitoring With Applications to an Ultraâ€"Supercritical Thermal Power Plant. IEEE Transactions on Automation Science and Engineering, 2023, 20, 137-150.	3.4	9
2	Coupling matrix manifolds assisted optimization for optimal transport problems. Machine Learning, 2021, 110, 533-558.	3.4	2
3	Parameter tracking of time-varying Hammerstein-Wiener systems. International Journal of Systems Science, 2021, 52, 3478-3492.	3.7	4
4	Nonlinear process monitoring using a mixture of probabilistic PCA with clusterings. Neurocomputing, 2021, 458, 319-326.	3.5	19
5	Plant Leaf Recognition Using Texture Features and Semi-Supervised Spherical K-means Clustering. , 2020, , .		5
6	Semi-blind joint channel estimation and data detection on sphere manifold for MIMO with high-order QAM signaling. Journal of the Franklin Institute, 2020, 357, 5680-5697.	1.9	4
7	Process Monitoring Based on Orthogonal Locality Preserving Projection with Maximum Likelihood Estimation. Industrial & Engineering Chemistry Research, 2019, 58, 5579-5587.	1.8	11
8	Simplex basis function based sparse least squares support vector regression. Neurocomputing, 2019, 330, 394-402.	3.5	11
9	An Improved Mixture of Probabilistic PCA for Nonlinear Data-Driven Process Monitoring. IEEE Transactions on Cybernetics, 2019, 49, 198-210.	6.2	53
10	Understanding Structure of Concurrent Actions. Lecture Notes in Computer Science, 2019, , 78-90.	1.0	0
11	Estimating the square root of probability density function on Riemannian manifold. Expert Systems, 2018, 38, e12266.	2.9	1
12	Sparse least squares support vector regression for nonstationary systems. , 2018, , .		0
13	Single-Carrier Frequency-Domain Equalization With Hybrid Decision Feedback Equalizer for Hammerstein Channels Containing Nonlinear Transmit Amplifier. IEEE Transactions on Wireless Communications, 2017, 16, 3341-3354.	6.1	10
14	l1-norm penalised orthogonal forward regression. International Journal of Systems Science, 2017, 48, 2195-2201.	3.7	2
15	Recursive least squares semi-blind beamforming for MIMO using decision directed adaptation and constant modulus criterion. International Journal of Automation and Computing, 2017, 14, 442-449.	4.5	3
16	Complex-valued B-spline neural network and its application to iterative frequency-domain decision feedback equalization for Hammerstein communication systems. , 2016, , .		4
17	Manifold optimization for nonnegative coefficient logistic regression. , 2016, , .		1
18	Sparse density estimator with tunable kernels. Neurocomputing, 2016, 173, 1976-1982.	3.5	5

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19	Heterogeneous Tensor Decomposition for Clustering via Manifold Optimization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 476-489.	9.7	52
20	A Fast Algorithm to Estimate the Square Root of Probability Density Function. , 2016, , 165-176.		1
21	Sparse density estimation on multinomial manifold combining local component analysis. , 2015, , .		1
22	A constrained recursive least squares algorithm for adaptive combination of multiple models. , 2015, , .		3
23	Adaptive B-spline neural network based nonlinear equalization for high-order QAM systems with nonlinear transmit high power amplifier. , 2015, 40, 238-249.		13
24	Sparse Density Estimation on the Multinomial Manifold. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2972-2977.	7.2	15
25	Tensor Regression Based on Linked Multiway Parameter Analysis. , 2014, , .		3
26	Construction of Neurofuzzy Models For Imbalanced Data Classification. IEEE Transactions on Fuzzy Systems, 2014, 22, 1472-1488.	6.5	16
27	PDFOS: PDF estimation based over-sampling for imbalanced two-class problems. Neurocomputing, 2014, 138, 248-259.	3.5	40
28	Dimensionality reduction assisted tensor clustering. , 2014, , .		6
29	B-spline neural network based single-carrier frequency domain equalisation for Hammerstein channels. , 2014, , .		4
30	Joint multiple dictionary learning for Tensor sparse coding. , 2014, , .		9
31	Nonlinear Equalization of Hammerstein OFDM Systems. IEEE Transactions on Signal Processing, 2014, 62, 5629-5639.	3.2	19
32	On-line Gaussian mixture density estimator for adaptive minimum bit-error-rate beamforming receivers. , 2014, , .		0
33	Complex-Valued B-Spline Neural Networks for Modeling and Inverting Hammerstein Systems. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 1673-1685.	7.2	29
34	Single-Carrier Frequency Domain Equalization for Hammerstein Communication Systems Using Complex-Valued Neural Networks. IEEE Transactions on Signal Processing, 2014, 62, 4467-4478.	3.2	15
35	A radial basis function network classifier to maximise leave-one-out mutual information. Applied Soft Computing Journal, 2014, 23, 9-18.	4.1	4
36	A unified neurofuzzy model for classification. International Journal of Systems Science, 2014, 45, 2158-2171.	3.7	1

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37	Estimation of Gaussian process regression model using probability distance measures. Systems Science and Control Engineering, 2014, 2, 655-663.	1.8	7
38	Sparse model construction using coordinate descent optimization. , 2013, , .		1
39	Digital Predistorter Design Using B-Spline Neural Network and Inverse of De Boor Algorithm. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1584-1594.	3.5	20
40	A fast algorithm for sparse probability density function construction. , 2013, , .		1
41	Sparse probability density function estimation using the minimum integrated square error. Neurocomputing, 2013, 115, 122-129.	3.5	13
42	Particle swarm optimisation assisted classification using elastic net prefiltering. Neurocomputing, 2013, 122, 210-220.	3.5	4
43	Elastic-Net Prefiltering for Two-Class Classification. IEEE Transactions on Cybernetics, 2013, 43, 286-295.	6.2	4
44	A neurofuzzy classifier for two class problems. , 2012, , .		1
45	Modelling and inverting complex-valued wiener systems. , 2012, , .		2
46	Probability density function estimation based over-sampling for imbalanced two-class problems. , 2012, , .		13
47	The system identification and control of Hammerstein system using non-uniform rational B-spline neural network and particle swarm optimization. Neurocomputing, 2012, 82, 216-223.	3.5	33
48	A Wiener model for memory high power amplifiers using B-spline function approximation. , 2011, , .		4
49	On combination of SMOTE and particle swarm optimization based radial basis function classifier for imbalanced problems. , 2011, , .		9
50	B-spline neural network based digital baseband predistorter solution using the inverse of De Boor algorithm. , 2011, , .		1
51	Modeling of Complex-Valued Wiener Systems Using B-Spline Neural Network. IEEE Transactions on Neural Networks, 2011, 22, 818-825.	4.8	33
52	Grey-box radial basis function modelling. Neurocomputing, 2011, 74, 1564-1571.	3.5	13
53	A combined SMOTE and PSO based RBF classifier for two-class imbalanced problems. Neurocomputing, 2011, 74, 3456-3466.	3.5	112
54	Adaptive modelling with tunable RBF network using multi-innovation RLS algorithm assisted by swarm intelligence. , 2011, , .		3

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55	Particle Swarm Optimization Aided Orthogonal Forward Regression for Unified Data Modeling. IEEE Transactions on Evolutionary Computation, 2010, 14, 477-499.	7.5	68
56	Radial basis function classifier construction using particle swarm optimisation aided orthogonal forward regression. , 2010, , .		4
57	Sparse kernel density estimation technique based on zero-norm constraint. , 2010, , .		2
58	An on-line algorithm of uncertain time delay estimation in a continuous system. , 2009, , .		0
59	OFDM joint data detection and phase noise cancellation based on minimum mean square prediction error. Signal Processing, 2009, 89, 502-509.	2.1	4
60	OFDM Joint Data Detection and Phase Noise Cancellation for Constant Modulus Modulations. IEEE Transactions on Signal Processing, 2009, 57, 2864-2868.	3.2	9
61	Grey-box radial basis function modelling: The art of incorporating prior knowledge. , 2009, , .		2
62	A New RBF Neural Network With Boundary Value Constraints. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 298-303.	5.5	39
63	Construction of Tunable Radial Basis Function Networks Using Orthogonal Forward Selection. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 457-466.	5.5	42
64	Non-linear system identification using particle swarm optimisation tuned radial basis function models. International Journal of Bio-Inspired Computation, 2009, 1, 246.	0.6	68
65	A minimum approximate-BER beamforming approach for PSK modulated wireless systems. International Journal of Automation and Computing, 2008, 5, 284-289.	4.5	4
66	A Forward-Constrained Regression Algorithm for Sparse Kernel Density Estimation. IEEE Transactions on Neural Networks, 2008, 19, 193-198.	4.8	24
67	A-Optimality Orthogonal Forward Regression Algorithm Using Branch and Bound. IEEE Transactions on Neural Networks, 2008, 19, 1961-1967.	4.8	3
68	A Kernel-Based Two-Class Classifier for Imbalanced Data Sets. IEEE Transactions on Neural Networks, 2007, 18, 28-41.	4.8	141
69	Identification of nonlinear systems using generalized kernel models. IEEE Transactions on Control Systems Technology, 2005, 13, 401-411.	3.2	25
70	Backward Elimination Methods for Associative Memory Network Pruning. International Journal of Hybrid Intelligent Systems, 2004, 1, 90-98.	0.9	7
71	Robust Neurofuzzy Rule Base Knowledge Extraction and Estimation Using Subspace Decomposition Combined With Regularization and D-Optimality. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 598-608.	5.5	25
72	Sparse Modeling Using Orthogonal Forward Regression With PRESS Statistic and Regularization. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 898-911.	5.5	227

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73	Sparse Kernel Density Construction Using Orthogonal Forward Regression With Leave-One-Out Test Score and Local Regularization. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 1708-1717.	5.5	58
74	A neurofuzzy network knowledge extraction and extended gram-schmidt algorithm for model subspace decomposition. IEEE Transactions on Fuzzy Systems, 2003, 11, 528-541.	6.5	18
75	Adaptive Modelling, Estimation and Fusion from Data. , 2002, , .		105