# Xia Hong

List of Publications by Year
in descending order

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

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | 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 |
| 2 | A Kernel-Based Two-Class Classifier for Imbalanced Data Sets. IEEE Transactions on Neural Networks, 2007, 18, 28-41. | 4.8 | 141 |
| 3 | A combined SMOTE and PSO based RBF classifier for two-class imbalanced problems. Neurocomputing, 2011, 74, 3456-3466. | 3.5 | 112 |
| 4 | Adaptive Modelling, Estimation and Fusion from Data. , 2002, , . | | 105 |
| 5 | 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 |
| 6 | Particle Swarm Optimization Aided Orthogonal Forward Regression for Unified Data Modeling. IEEE Transactions on Evolutionary Computation, 2010, 14, 477-499. | 7.5 | 68 |
| 7 | 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 |
| 8 | An Improved Mixture of Probabilistic PCA for Nonlinear Data-Driven Process Monitoring. IEEE Transactions on Cybernetics, 2019, 49, 198-210. | 6.2 | 53 |
| 9 | Heterogeneous Tensor Decomposition for Clustering via Manifold Optimization. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 476-489. | 9.7 | 52 |
| 10 | 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 |
| 11 | PDFOS: PDF estimation based over-sampling for imbalanced two-class problems. Neurocomputing, 2014, 138, 248-259. | 3.5 | 40 |
| 12 | A New RBF Neural Network With Boundary Value Constraints. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 298-303. | 5.5 | 39 |
| 13 | Modeling of Complex-Valued Wiener Systems Using B-Spline Neural Network. IEEE Transactions on Neural Networks, 2011, 22, 818-825. | 4.8 | 33 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | Identification of nonlinear systems using generalized kernel models. IEEE Transactions on Control Systems Technology, 2005, 13, 401-411. | 3.2 | 25 |
| 18 | A Forward-Constrained Regression Algorithm for Sparse Kernel Density Estimation. IEEE Transactions on Neural Networks, 2008, 19, 193-198. | 4.8 | 24 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 19 | 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 |
| 20 | Nonlinear Equalization of Hammerstein OFDM Systems. IEEE Transactions on Signal Processing, 2014, 62, 5629-5639. | 3.2 | 19 |
| 21 | Nonlinear process monitoring using a mixture of probabilistic PCA with clusterings. Neurocomputing, 2021, 458, 319-326. | 3.5 | 19 |
| 22 | 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 |
| 23 | Construction of Neurofuzzy Models For Imbalanced Data Classification. IEEE Transactions on Fuzzy Systems, 2014, 22, 1472-1488. | 6.5 | 16 |
| 24 | 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 |
| 25 | Sparse Density Estimation on the Multinomial Manifold. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2972-2977. | 7.2 | 15 |
| 26 | Grey-box radial basis function modelling. Neurocomputing, 2011, 74, 1564-1571. | 3.5 | 13 |
| 27 | Probability density function estimation based over-sampling for imbalanced two-class problems. , 2012, , . |  | 13 |
| 28 | Sparse probability density function estimation using the minimum integrated square error. Neurocomputing, 2013, 115, 122-129. | 3.5 | 13 |
| 29 | Adaptive B-spline neural network based nonlinear equalization for high-order QAM systems with nonlinear transmit high power amplifier. , 2015, 40, 238-249. |  | 13 |
| 30 | Process Monitoring Based on Orthogonal Locality Preserving Projection with Maximum Likelihood Estimation. Industrial &amp; Engineering Chemistry Research, 2019, 58, 5579-5587. | 1.8 | 11 |
| 31 | Simplex basis function based sparse least squares support vector regression. Neurocomputing, 2019, 330, 394-402. | 3.5 | 11 |
| 32 | 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 |
| 33 | OFDM Joint Data Detection and Phase Noise Cancellation for Constant Modulus Modulations. IEEE Transactions on Signal Processing, 2009, 57, 2864-2868. | 3.2 | 9 |
| 34 | On combination of SMOTE and particle swarm optimization based radial basis function classifier for imbalanced problems. , 2011, , . |  | 9 |
| 35 | Joint multiple dictionary learning for Tensor sparse coding. , 2014, , . |  | 9 |
| 36 | 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 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 37 | Backward Elimination Methods for Associative Memory Network Pruning. International Journal of Hybrid Intelligent Systems, 2004, 1, 90-98. | 0.9 | 7 |
| 38 | Estimation of Gaussian process regression model using probability distance measures. Systems Science and Control Engineering, 2014, 2, 655-663. | 1.8 | 7 |
| 39 | Dimensionality reduction assisted tensor clustering. , 2014, , . | | 6 |
| 40 | Sparse density estimator with tunable kernels. Neurocomputing, 2016, 173, 1976-1982. | 3.5 | 5 |
| 41 | Plant Leaf Recognition Using Texture Features and Semi-Supervised Spherical K-means Clustering. , 2020, , . | | 5 |
| 42 | A minimum approximate-BER beamforming approach for PSK modulated wireless systems. International Journal of Automation and Computing, 2008, 5, 284-289. | 4.5 | 4 |
| 43 | OFDM joint data detection and phase noise cancellation based on minimum mean square prediction error. Signal Processing, 2009, 89, 502-509. | 2.1 | 4 |
| 44 | Radial basis function classifier construction using particle swarm optimisation aided orthogonal forward regression. , 2010, , . | | 4 |
| 45 | A Wiener model for memory high power amplifiers using B-spline function approximation. , 2011, , . | | 4 |
| 46 | Particle swarm optimisation assisted classification using elastic net prefiltering. Neurocomputing, 2013, 122, 210-220. | 3.5 | 4 |
| 47 | Elastic-Net Prefiltering for Two-Class Classification. IEEE Transactions on Cybernetics, 2013, 43, 286-295. | 6.2 | 4 |
| 48 | B-spline neural network based single-carrier frequency domain equalisation for Hammerstein channels. , 2014, , . | | 4 |
| 49 | A radial basis function network classifier to maximise leave-one-out mutual information. Applied Soft Computing Journal, 2014, 23, 9-18. | 4.1 | 4 |
| 50 | Complex-valued B-spline neural network and its application to iterative frequency-domain decision feedback equalization for Hammerstein communication systems. , 2016, , . | | 4 |
| 51 | 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 |
| 52 | Parameter tracking of time-varying Hammerstein-Wiener systems. International Journal of Systems Science, 2021, 52, 3478-3492. | 3.7 | 4 |
| 53 | A-Optimality Orthogonal Forward Regression Algorithm Using Branch and Bound. IEEE Transactions on Neural Networks, 2008, 19, 1961-1967. | 4.8 | 3 |
| 54 | Adaptive modelling with tunable RBF network using multi-innovation RLS algorithm assisted by swarm intelligence. , 2011, , . | | 3 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 55 | Tensor Regression Based on Linked Multiway Parameter Analysis. , 2014, , . | | 3 |
| 56 | A constrained recursive least squares algorithm for adaptive combination of multiple models. , 2015, , . | | 3 |
| 57 | 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 |
| 58 | Grey-box radial basis function modelling: The art of incorporating prior knowledge. , 2009, , . | | 2 |
| 59 | Sparse kernel density estimation technique based on zero-norm constraint. , 2010, , . | | 2 |
| 60 | Modelling and inverting complex-valued wiener systems. , 2012, , . | | 2 |
| 61 | l1-norm penalised orthogonal forward regression. International Journal of Systems Science, 2017, 48, 2195-2201. | 3.7 | 2 |
| 62 | Coupling matrix manifolds assisted optimization for optimal transport problems. Machine Learning, 2021, 110, 533-558. | 3.4 | 2 |
| 63 | B-spline neural network based digital baseband predistorter solution using the inverse of De Boor algorithm. , 2011, , . | | 1 |
| 64 | A neurofuzzy classifier for two class problems. , 2012, , . | | 1 |
| 65 | Sparse model construction using coordinate descent optimization. , 2013, , . | | 1 |
| 66 | A fast algorithm for sparse probability density function construction. , 2013, , . | | 1 |
| 67 | A unified neurofuzzy model for classification. International Journal of Systems Science, 2014, 45, 2158-2171. | 3.7 | 1 |
| 68 | Sparse density estimation on multinomial manifold combining local component analysis. , 2015, , . | | 1 |
| 69 | Manifold optimization for nonnegative coefficient logistic regression. , 2016, , . | | 1 |
| 70 | Estimating the square root of probability density function on Riemannian manifold. Expert Systems, 2018, 38, e12266. | 2.9 | 1 |
| 71 | A Fast Algorithm to Estimate the Square Root of Probability Density Function. , 2016, , 165-176. | | 1 |
| 72 | An on-line algorithm of uncertain time delay estimation in a continuous system. , 2009, , . | | 0 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 73 | On-line Gaussian mixture density estimator for adaptive minimum bit-error-rate beamforming receivers. , 2014, , . | | 0 |
| 74 | Sparse least squares support vector regression for nonstationary systems. , 2018, , . | | 0 |
| 75 | Understanding Structure of Concurrent Actions. Lecture Notes in Computer Science, 2019, , 78-90. | 1.0 | 0 |