Bao-Gang Hu

List of Publications by Year
in descending order

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108 papers	3,586 citations	236925 25 h-index	175258 52 g-index
110 all docs	110 docs citations	110 times ranked	2558 citing authors

#	Article	IF	Citations
1	Maximum Correntropy Criterion for Robust Face Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2011, 33, 1561-1576.	13.9	517
2	Robust Principal Component Analysis Based on Maximum Correntropy Criterion. IEEE Transactions on Image Processing, 2011, 20, 1485-1494.	9.8	276
3	Analysis of direct action fuzzy PID controller structures. IEEE Transactions on Systems, Man, and Cybernetics, 1999, 29, 371-388.	5.0	256
4	New methodology for analytical and optimal design of fuzzy PID controllers. IEEE Transactions on Fuzzy Systems, 1999, 7, 521-539.	9.8	199
5	A systematic study of fuzzy PID controllers-function-based evaluation approach. IEEE Transactions on Fuzzy Systems, 2001, 9, 699-712.	9.8	160
6	Robust feature extraction via information theoretic learning. , 2009, , .		111
7	A Regularized Correntropy Framework for Robust Pattern Recognition. Neural Computation, 2011, 23, 2074-2100.	2.2	110
8	Two-Stage Nonnegative Sparse Representation for Large-Scale Face Recognition. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 35-46.	11.3	107
9	Multi-label learning with missing labels for image annotation and facial action unit recognition. Pattern Recognition, 2015, 48, 2279-2289.	8.1	107
10	Structural Factorization of Plants to Compute Their Functional and Architectural Growth. Simulation, 2006, 82, 427-438.	1.8	87
11	Constrained Clustering and Its Application to Face Clustering in Videos. , 2013, , .		83
12	Nonnegative sparse coding for discriminative semi-supervised learning. , 2011, , .		76
13	Robust support vector machines based on the rescaled hinge loss function. Pattern Recognition, 2017, 63, 139-148.	8.1	76
14	Two-level tuning of fuzzy PID controllers. IEEE Transactions on Systems, Man, and Cybernetics, 2001, 31, 263-269.	5.0	69
15	Attention-based Multi-Patch Aggregation for Image Aesthetic Assessment. , 2018, , .		65
16	Analytical study of a stochastic plant growth model: Application to the GreenLab model. Mathematics and Computers in Simulation, 2008, 78, 57-75.	4.4	55
17	Multi-label Learning with Missing Labels. , 2014, , .		53
18	Simultaneous Clustering and Tracklet Linking for Multi-face Tracking in Videos. , 2013, , .		47

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19	Principal component analysis based on non-parametric maximum entropy. Neurocomputing, 2010, 73, 1840-1852.	5.9	44
20	Fast Hydraulic Erosion Simulation and Visualization on GPU. , 2007, , .		43
21	Agglomerative Mean-Shift Clustering. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 209-219.	5.7	41
22	A knowledge-and-data-driven modeling approach for simulating plant growth: A case study on tomato growth. Ecological Modelling, 2015, 312, 363-373.	2.5	41
23	Application of a fuzzy classification technique in computer grading of fish products. IEEE Transactions on Fuzzy Systems, 1998, 6, 144-152.	9.8	39
24	A generalized-constraint neural network model: Associating partially known relationships for nonlinear regressionsâ¯†. Information Sciences, 2009, 179, 1929-1943.	6.9	39
25	A New Strategy of Cost-Free Learning in the Class Imbalance Problem. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 2872-2885.	5.7	38
26	Weakly-Supervised Deep Convolutional Neural Network Learning for Facial Action Unit Intensity Estimation. , 2018, , .		36
27	Two-Phase Construction of Multilayer Perceptrons Using Information Theory. IEEE Transactions on Neural Networks, 2009, 20, 715-721.	4.2	33
28	Optimization of sourceâ€“sink dynamics in plant growth for ideotype breeding: A case study on maize. Computers and Electronics in Agriculture, 2010, 71, 96-105.	7.7	33
29	A Coupled Hidden Markov Random Field model for simultaneous face clustering and tracking in videos. Pattern Recognition, 2017, 64, 361-373.	8.1	32
30	Classifier Learning with Prior Probabilities for Facial Action Unit Recognition. , 2018, , .		32
31	Robust Discriminant Analysis Based on Nonparametric Maximum Entropy. Lecture Notes in Computer Science, 2009, , 120-134.	1.3	31
32	Discriminative Feature Selection by Nonparametric Bayes Error Minimization. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 1422-1434.	5.7	31
33	Generalized Constraint Neural Network Regression Model Subject to Linear Priors. IEEE Transactions on Neural Networks, 2011, 22, 2447-2459.	4.2	30
34	Robust C-Loss Kernel Classifiers. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 510-522.	11.3	30
35	What Are the Differences Between Bayesian Classifiers and Mutual-Information Classifiers?. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 249-264.	11.3	27
36	Two decades of research with the GreenLab model in agronomy. Annals of Botany, 2021, 127, 281-295.	2.9	27

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37	Bilateral Ordinal Relevance Multi-instance Regression for Facial Action Unit Intensity Estimation. , 2018, , .		26
38	Linear Feature-weighted Support Vector Machine. Fuzzy Information and Engineering, 2009, 1, 289-305.	1.7	24
39	An adaptive fuzzy c-means clustering-based mixtures of experts model for unlabeled data classification. Neurocomputing, 2008, 71, 1008-1021.	5.9	23
40	Variational Graph Embedding for Globally and Locally Consistent Feature Extraction. Lecture Notes in Computer Science, 2009, , 538-553.	1.3	22
41	Simulation of fruit-set and trophic competition and optimization of yield advantages in six Capsicum cultivars using functionalâ€“structural plant modelling. Annals of Botany, 2011, 107, 793-803.	2.9	22
42	Parameter Identifiability in Statistical Machine Learning: A Review. Neural Computation, 2017, 29, 1151-1203.	2.2	19
43	Joint Representation and Estimator Learning for Facial Action Unit Intensity Estimation. , 2019, , .		19
44	Evaluation Criteria Based on Mutual Information for Classifications Including Rejected Class. Zidonghua Xuebao/Acta Automatica Sinica, 2008, 34, 1396-1403.	1.5	18
45	Data-Driven Synthesis of Cartoon Faces Using Different Styles. IEEE Transactions on Image Processing, 2017, 26, 464-478.	9.8	18
46	A new eigenstructure method for sinusoidal signal retrieval in white noise: estimation and pattern recognition. IEEE Transactions on Signal Processing, 1997, 45, 3073-3083.	5.3	17
47	An optimal control methodology for plant growthâ€”Case study of a water supply problem of sunflower. Mathematics and Computers in Simulation, 2012, 82, 909-923.	4.4	15
48	Structural identifiability of generalized constraint neural network models for nonlinear regression. Neurocomputing, 2008, 72, 392-400.	5.9	13
49	A Stagewise Least Square Loss Function for Classification. , 2008, , .		13
50	Learning to assess visual aesthetics of food images. Computational Visual Media, 2021, 7, 139-152.	17.5	12
51	Data-driven face cartoon stylization. , 2014, , .		11
52	Determining structural identifiability of parameter learning machines. Neurocomputing, 2014, 127, 88-97.	5.9	11
53	Information-theoretic Measures for Objective Evaluation of Classifications. Zidonghua Xuebao/Acta Automatica Sinica, 2012, 38, 1169-1182.	1.5	10
54	Determining parameter identifiability from the optimization theory framework: A Kullbackâ€“Leibler divergence approach. Neurocomputing, 2014, 142, 307-317.	5.9	9

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55	Global and local consistent multi-view subspace clustering. , 2015, , .		9
56	A knowledge-and-data-driven modeling approach for simulating plant growth and the dynamics of CO2/O2 concentrations in a closed system of plants and humans by integrating mechanistic and empirical models. Computers and Electronics in Agriculture, 2018, 148, 280-290.	7.7	9
57	Incremental Concept Learning via Online Generative Memory Recall. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3206-3216.	11.3	9
58	Variational learning for Generalized Associative Functional Networks in modeling dynamic process of plant growth. Ecological Informatics, 2009, 4, 163-176.	5.2	8
59	Unsupervised Ranking of Multi-Attribute Objects Based on Principal Curves. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 3404-3416.	5.7	8
60	Centroid-aware local discriminative metric learning in speaker verification. Pattern Recognition, 2017, 72, 176-185.	8.1	8
61	Gourmet photography dataset for aesthetic assessment of food images. , 2018, , .		8
62	Evaluation Criteria Based on Mutual Information for Classifications Including Rejected Class. Zidonghua Xuebao/Acta Automatica Sinica, 2009, 34, 1396-1403.	0.3	8
63	Mutual information based on Renyi's entropy feature selection. , 2009, , .		7
64	Globality and locality incorporation in distance metric learning. Neurocomputing, 2014, 129, 185-198.	5.9	7
65	Average Top-k Aggregate Loss for Supervised Learning. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 76-86.	13.9	7
66	RBF networks for nonlinear models subject to linear constraints. , 2009, , .		6
67	Style-oriented representative paintings selection. , 2017, , .		6
68	Facial Image Attributes Transformation via Conditional Recycle Generative Adversarial Networks. Journal of Computer Science and Technology, 2018, 33, 511-521.	1.5	6
69	Learning in the Class Imbalance Problem When Costs are Unknown for Errors and Rejects. , 2012, , .		5
70	Real-Time Simulation of Aeolian Sand Movement and Sand Ripple Evolution: A Method Based on the Physics of Blown Sand. Journal of Computer Science and Technology, 2012, 27, 135-146.	1.5	5
71	On connections between RÃ©nyi entropy Principal Component Analysis, kernel learning and graph embedding. Pattern Recognition Letters, 2018, 112, 125-130.	4.2	5
72	Groupwise Ranking Loss for Multi-Label Learning. IEEE Access, 2020, 8, 21717-21727.	4.2	5

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73	Information-theoretic Measures for Objective Evaluation of Classifications. Zidonghua Xuebao/Acta Automatica Sinica, 2012, 38, 1169.	0.3	5
74	An Implementation of Web Based Query by Humming System. , 2007, , .		4
75	Derivations of Normalized Mutual Information in Binary Classifications. , 2009, , .		4
76	IdiotPencil: An Interactive System for Generating Pencil Drawings from 3D Polygonal Models. , 2011, , .		4
77	An asymmetric stagewise least square loss function for imbalanced classification. , 2014, , .		4
78	Improving Image Restoration with Soft-Rounding. , 2015, , .		4
79	An Optimization Approach of Deriving Bounds between Entropy and Error from Joint Distribution: Case Study for Binary Classifications. Entropy, 2016, 18, 59.	2.2	4
80	Robust bounded logistic regression in the class imbalance problem. , 2016, , .		4
81	A Fast Ambient Occlusion Method for Real-Time Plant Rendering. Journal of Computer Science and Technology, 2007, 22, 859-866.	1.5	3
82	Evaluating the Quality of Face Alignment without Ground Truth. Computer Graphics Forum, 2015, 34, 213-223.	3.0	3
83	An identifying function approach for determining parameter structure of statistical learning machines. Neurocomputing, 2015, 162, 209-217.	5.9	3
84	Locally imposing function for Generalized Constraint Neural Networks - A study on equality constraints. , 2016, , .		3
85	Variational Bayes Inference for Generalized Associative Functional Networks. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	2
86	A novel support vector machine with its features weighted by mutual information. , 2008, , .		2
87	Cost-Free Learning for Support Vector Machines with a Reject Option. , 2013, , .		2
88	Two-Phase Attribute Ordering for Unsupervised Ranking of Multi-attribute Objects. , 2014, , .		2
89	Generalized constraint neural network regression model subject to equality function constraints. , 2015, , .		2
90	Efficient Feature Selection in the Presence of Outliers and Noises. , 2008, , 184-191.		2

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91	Information Theory and Its Relation to Machine Learning. Lecture Notes in Electrical Engineering, 2015, , 1-11.	0.4	2
92	Information measure toolbox for classifier evaluation on open source software Scilab. , 2009, , .		1
93	Aeolian Sand Movement and Interacting with Vegetation: A GPU Based Simulation and Visualization Method. , 2009, , .		1
94	Efficient and Scalable Information Geometry Metric Learning. , 2013, , .		1
95	Non-blind image restoration with symmetric generalized Pareto priors. , 2014, , .		1
96	An identifying function approach for determining structural identifiability of parameter learning machines. , 2014, , .		1
97	UniHIST: A unified framework for image restoration with marginal histogram constraints. , 2015, , .		1
98	Time-consistent estimation of LAI by assimilation in GreenLab plant growth model. Computers and Geosciences, 2019, 130, 57-68.	4.2	1
99	Semi-Supervised Deep Neural Network for Joint Intensity Estimation of Multiple Facial Action Units. IEEE Access, 2019, 7, 150743-150756.	4.2	1
100	Sparse Kernel-Based Feature Weighting. , 2008, , 813-820.		1
101	Associating Neural Networks with Partially Known Relationships for Nonlinear Regressions. Lecture Notes in Computer Science, 2005, , 737-746.	1.3	1
102	Towards Corruption-Agnostic Robust Domain Adaptation. ACM Transactions on Multimedia Computing, Communications and Applications, 2022, 18, 1-16.	4.3	1
103	A Scilab toolbox of nonlinear regression models using a linear solver. , 2011, , .		0
104	Robust principal curves based on maximum correntropy criterion. , 2013, , .		0
105	Reply to â€œReply to â€˜Determining structural identifiability of parameter learning machinesâ€™â€. Neurocomputing, 2016, 218, 318-319.	5.9	0
106	Unsupervised ranking of multi-attribute objects based on principal curves. , 2016, , .		0
107	Geometric Interpretation of Nonlinear Approximation Capability for Feedforward Neural Networks. Lecture Notes in Computer Science, 2004, , 7-13.	1.3	0
108	Modelling and Sampling Ramified Objects with Substructure-Based Method. Lecture Notes in Computer Science, 2005, , 322-326.	1.3	0