

Yoichi Hayashi

List of Publications by Year in descending order

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89
papers

3,194
citations

270111

25
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all docs

89
docs citations

89
times ranked

2043
citing authors

#	ARTICLE	IF	CITATIONS
1	Hardware Implementation of a Takagi-Sugeno Neuro-Fuzzy System Optimized by a Population Algorithm. Journal of Artificial Intelligence and Soft Computing Research, 2021, 11, 243-266.	3.5	12
2	Use of an artificial intelligence-based rule extraction approach to predict an emergency cesarean section. International Journal of Gynecology and Obstetrics, 2021, , .	1.0	2
3	Performance Analysis of Rough Set-Based Hybrid Classification Systems in the Case of Missing Values. Journal of Artificial Intelligence and Soft Computing Research, 2021, 11, 307-318.	3.5	5
4	Does Deep Learning Work Well for Categorical Datasets with Mainly Nominal Attributes?. Electronics (Switzerland), 2020, 9, 1966.	1.8	5
5	One-Dimensional Convolutional Neural Networks with Feature Selection for Highly Concise Rule Extraction from Credit Scoring Datasets with Heterogeneous Attributes. Electronics (Switzerland), 2020, 9, 1318.	1.8	9
6	New unified insights on deep learning in radiological and pathological images: Beyond quantitative performances to qualitative interpretation. Informatics in Medicine Unlocked, 2020, 19, 100329.	1.9	7
7	Browser Fingerprint Coding Methods Increasing the Effectiveness of User Identification in the Web Traffic. Journal of Artificial Intelligence and Soft Computing Research, 2020, 10, 243-253.	3.5	20
8	Rough Support Vector Machine for Classification with Interval and Incomplete Data. Journal of Artificial Intelligence and Soft Computing Research, 2020, 10, 47-56.	3.5	13
9	Visual Hybrid Recommendation Systems Based on the Content-Based Filtering. Lecture Notes in Computer Science, 2020, , 455-465.	1.0	0
10	Signature Partitioning Using Selected Population-Based Algorithms. Lecture Notes in Computer Science, 2020, , 480-488.	1.0	0
11	Black Box Nature of Deep Learning for Digital Pathology: Beyond Quantitative to Qualitative Algorithmic Performances. Lecture Notes in Computer Science, 2020, , 95-101.	1.0	5
12	The Right Direction Needed to Develop White-Box Deep Learning in Radiology, Pathology, and Ophthalmology: A Short Review. Frontiers in Robotics and AI, 2019, 6, 24.	2.0	27
13	Detection of Lower Albuminuria Levels and Early Development of Diabetic Kidney Disease Using an Artificial Intelligence-Based Rule Extraction Approach. Diagnostics, 2019, 9, 133.	1.3	10
14	Output Voltage Error Compensation for Every Half of a Carrier Period in a Voltage Source Inverter. IEEJ Journal of Industry Applications, 2019, 8, 41-50.	0.9	5
15	A rule extraction approach to explore the upper limit of hemoglobin during anemia treatment in patients with predialysis chronic kidney disease. Informatics in Medicine Unlocked, 2019, 17, 100262.	1.9	4
16	Optimality and convergence for convex ensemble learning with sparsity and diversity based on fixed point optimization. Neurocomputing, 2018, 273, 367-372.	3.5	6
17	Use of a Deep Belief Network for Small High-Level Abstraction Data Sets Using Artificial Intelligence with Rule Extraction. Neural Computation, 2018, 30, 3309-3326.	1.3	9
18	A Rule Extraction Study from SVM on Sentiment Analysis. Big Data and Cognitive Computing, 2018, 2, 6.	2.9	12

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19	A Comparison Study on Rule Extraction from Neural Network Ensembles, Boosted Shallow Trees, and SVMs. <i>Applied Computational Intelligence and Soft Computing</i> , 2018, 2018, 1-20.	1.6	26
20	High Accuracy-priority Rule Extraction for Reconciling Accuracy and Interpretability in Credit Scoring. <i>New Generation Computing</i> , 2018, 36, 393-418.	2.5	14
21	Non-invasive prediction of non-alcoholic steatohepatitis in Japanese patients with morbid obesity by artificial intelligence using rule extraction technology. <i>World Journal of Hepatology</i> , 2018, 10, 934-943.	0.8	11
22	Synergy effects between grafting and subdivision in Re-RX with J48graft for the diagnosis of thyroid disease. <i>Knowledge-Based Systems</i> , 2017, 131, 170-182.	4.0	17
23	Characterization of Symbolic Rules Embedded in Deep DIMLP Networks: A Challenge to Transparency of Deep Learning. <i>Journal of Artificial Intelligence and Soft Computing Research</i> , 2017, 7, 265-286.	3.5	73
24	A Method for Genetic Selection of the Most Characteristic Descriptors of the Dynamic Signature. <i>Lecture Notes in Computer Science</i> , 2017, , 747-760.	1.0	4
25	Volumetric brain tumour detection from MRI using visual saliency. <i>PLoS ONE</i> , 2017, 12, e0187209.	1.1	16
26	Hybrid Initialization in the Process of Evolutionary Learning. <i>Lecture Notes in Computer Science</i> , 2017, , 380-393.	1.0	3
27	A Novel GBM Saliency Detection Model Using Multi-Channel MRI. <i>PLoS ONE</i> , 2016, 11, e0146388.	1.1	41
28	Application of a rule extraction algorithm family based on the Re-RX algorithm to financial credit risk assessment from a Pareto optimal perspective. <i>Operations Research Perspectives</i> , 2016, 3, 32-42.	1.2	30
29	Accuracy of rule extraction using a recursive-rule extraction algorithm with continuous attributes combined with a sampling selection technique for the diagnosis of liver disease. <i>Informatics in Medicine Unlocked</i> , 2016, 5, 26-38.	1.9	13
30	A rule extraction study on a neural network trained by deep learning. , 2016, , .		10
31	New Approach for Nonlinear Modelling Based on Online Designing of the Fuzzy Rule Base. <i>Lecture Notes in Computer Science</i> , 2016, , 230-247.	1.0	1
32	Neural network training and rule extraction with augmented discretized input. <i>Neurocomputing</i> , 2016, 207, 610-622.	3.5	18
33	A New Approach to the Dynamic Signature Verification Aimed at Minimizing the Number of Global Features. <i>Lecture Notes in Computer Science</i> , 2016, , 218-231.	1.0	21
34	Rule extraction using Recursive-Rule extraction algorithm with J48graft combined with sampling selection techniques for the diagnosis of type 2 diabetes mellitus in the Pima Indian dataset. <i>Informatics in Medicine Unlocked</i> , 2016, 2, 92-104.	1.9	73
35	SPMoE: a novel subspace-projected mixture of experts model for multi-target regression problems. <i>Soft Computing</i> , 2016, 20, 2047-2065.	2.1	21
36	Recursive-Rule Extraction Algorithm With J48graft And Applications To Generating Credit Scores. <i>Journal of Artificial Intelligence and Soft Computing Research</i> , 2016, 6, 35-44.	3.5	22

#	ARTICLE	IF	CITATIONS
37	Use of a Recursive-Rule eXtraction algorithm with J48graft to achieve highly accurate and concise rule extraction from a large breast cancer dataset. Informatics in Medicine Unlocked, 2015, 1, 9-16.	1.9	22
38	Use of the recursive-rule extraction algorithm with continuous attributes to improve diagnostic accuracy in thyroid disease. Informatics in Medicine Unlocked, 2015, 1, 1-8.	1.9	21
39	Using Sample Selection to Improve Accuracy and Simplicity of Rules Extracted from Neural Networks for Credit Scoring Applications. International Journal of Computational Intelligence and Applications, 2015, 14, 1550021.	0.6	7
40	New Fast Algorithm for the Dynamic Signature Verification Using Global Features Values. Lecture Notes in Computer Science, 2015, , 175-188.	1.0	40
41	Extensions of Hopfield Neural Networks for Solving of Stereo-Matching Problem. Lecture Notes in Computer Science, 2015, , 59-71.	1.0	3
42	QSVM: A Support Vector Machine for Rule Extraction. Lecture Notes in Computer Science, 2015, , 276-289.	1.0	9
43	Strategic approach for Multiple-MLP Ensemble Re-RX algorithm. , 2015, , .		1
44	Three-MLP Ensemble Re-RX algorithm and recent classifiers for credit-risk evaluation. , 2015, , .		3
45	Survey on the Family of the Recursive-Rule Extraction Algorithm. Journal of Computer Science Technology Updates, 2015, 1, 26-34.	0.2	2
46	MofN rule extraction from neural networks trained with augmented discretized input. , 2014, , .		3
47	New Method for Dynamic Signature Verification Based on Global Features. Lecture Notes in Computer Science, 2014, , 231-245.	1.0	39
48	Comparative Study of Accuracies on the Family of the Recursive-Rule Extraction Algorithm. Lecture Notes in Computer Science, 2014, , 491-498.	1.0	1
49	Characteristics and Potential Developments of Multiple-MLP Ensemble Re-RX Algorithm. Lecture Notes in Computer Science, 2014, , 619-627.	1.0	2
50	A new approach to three ensemble neural network rule extraction using recursive-rule extraction algorithm. , 2013, , .		17
51	NEURAL NETWORK RULE EXTRACTION BY A NEW ENSEMBLE CONCEPT AND ITS THEORETICAL AND HISTORICAL BACKGROUND: A REVIEW. International Journal of Computational Intelligence and Applications, 2013, 12, 1340006.	0.6	16
52	Neural Data Analysis: Ensemble Neural Network Rule Extraction Approach and Its Theoretical and Historical Backgrounds. Lecture Notes in Computer Science, 2013, , 1-19.	1.0	3
53	Ensemble neural network rule extraction using Re-RX algorithm. , 2012, , .		27
54	On the Strong Convergence of the Orthogonal Series-Type Kernel Regression Neural Networks in a Non-stationary Environment. Lecture Notes in Computer Science, 2012, , 47-54.	1.0	17

#	ARTICLE	IF	CITATIONS
55	On the Weak Convergence of the Recursive Orthogonal Series-Type Kernel Probabilistic Neural Networks in a Time-Varying Environment. Lecture Notes in Computer Science, 2012, , 427-434.	1.0	0
56	A New Neural Data Analysis Approach Using Ensemble Neural Network Rule Extraction. Lecture Notes in Computer Science, 2012, , 515-522.	1.0	6
57	Strong Convergence of the Recursive Parzen-Type Probabilistic Neural Network Handling Nonstationary Noise. Lecture Notes in Computer Science, 2012, , 160-168.	1.0	0
58	On General Regression Neural Network in a Nonstationary Environment. Lecture Notes in Computer Science, 2012, , 461-469.	1.0	0
59	On the Application of the Parzen-Type Kernel Probabilistic Neural Network and Recursive Least Squares Method for Learning in a Time-Varying Environment. Lecture Notes in Computer Science, 2012, , 490-500.	1.0	0
60	Genetic Networks and Soft Computing. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2011, 8, 94-107.	1.9	49
61	Understanding consumer heterogeneity: A business intelligence application of neural networks. Knowledge-Based Systems, 2010, 23, 856-863.	4.0	29
62	Greedy rule generation from discrete data and its use in neural network rule extraction. Neural Networks, 2008, 21, 1020-1028.	3.3	47
63	Web-Based Decision Support in Selecting Patients with Parkinson's Disease for Deep Brain Stimulation. Proceedings of the IEEE Symposium on Computer-Based Medical Systems, 2007, , .	0.0	1
64	Knowledge acquisition in the fuzzy knowledge representation framework of a medical consultation system. Artificial Intelligence in Medicine, 2004, 30, 1-26.	3.8	81
65	On Designing of Neuro-Fuzzy Systems. Lecture Notes in Computer Science, 2004, , 641-649.	1.0	1
66	Combining neural network predictions for medical diagnosis. Computers in Biology and Medicine, 2002, 32, 237-246.	3.9	50
67	Parallel Processing by Implication-Based Neuro-Fuzzy Systems. Lecture Notes in Computer Science, 2002, , 599-607.	1.0	6
68	Fuzzy hierarchical analysis revisited. European Journal of Operational Research, 2001, 129, 48-64.	3.5	185
69	A comparison between two neural network rule extraction techniques for the diagnosis of hepatobiliary disorders. Artificial Intelligence in Medicine, 2000, 20, 205-216.	3.8	56
70	Neuro-fuzzy rule generation: survey in soft computing framework. IEEE Transactions on Neural Networks, 2000, 11, 748-768.	4.8	576
71	MULTIVARIATE NON-LINEAR FUZZY REGRESSION: AN EVOLUTIONARY ALGORITHM APPROACH. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 1999, 07, 83-98.	0.9	21
72	Neural net solutions to fuzzy linear programming. Fuzzy Sets and Systems, 1999, 106, 99-111.	1.6	17

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73	Neuro-Fuzzy Systems Approaches. Journal of Advanced Computational Intelligence and Intelligent Informatics, 1999, 3, 177-185.	0.5	3
74	Applications of fuzzy chaos to fuzzy simulation. Fuzzy Sets and Systems, 1998, 99, 151-157.	1.6	19
75	Solving fuzzy equations using neural nets. Fuzzy Sets and Systems, 1997, 86, 271-278.	1.6	38
76	Fuzzy genetic algorithm and applications. Fuzzy Sets and Systems, 1994, 61, 129-136.	1.6	84
77	Approximations between fuzzy expert systems and neural networks. International Journal of Approximate Reasoning, 1994, 10, 63-73.	1.9	44
78	Additive hybrid networks for fuzzy logic. Fuzzy Sets and Systems, 1994, 66, 307-313.	1.6	4
79	Can approximate reasoning be consistent?. Fuzzy Sets and Systems, 1994, 65, 13-18.	1.6	27
80	Can fuzzy neural nets approximate continuous fuzzy functions?. Fuzzy Sets and Systems, 1994, 61, 43-51.	1.6	156
81	Fuzzy neural networks: A survey. Fuzzy Sets and Systems, 1994, 66, 1-13.	1.6	441
82	Development of Water Chemistry Diagnostic System for BWRs Using Fuzzy Reasoning. Journal of Nuclear Science and Technology, 1994, 31, 1023-1037.	0.7	6
83	Fuzzy neural network with fuzzy signals and weights. International Journal of Intelligent Systems, 1993, 8, 527-537.	3.3	176
84	On the equivalence of neural nets and fuzzy expert systems. Fuzzy Sets and Systems, 1993, 53, 129-134.	1.6	85
85	Numerical relationships between neural networks, continuous functions, and fuzzy systems. Fuzzy Sets and Systems, 1993, 60, 1-8.	1.6	49
86	Hybrid neural nets can be fuzzy controllers and fuzzy expert systems. Fuzzy Sets and Systems, 1993, 60, 135-142.	1.6	39
87	Fuzzy input-output controllers are universal approximators. Fuzzy Sets and Systems, 1993, 58, 273-278.	1.6	95
88	A structural analysis of database management system technology with some Japanese experience. Information and Management, 1992, 22, 347-362.	3.6	1
89	Toward the transparency of deep learning in radiological imaging: beyond quantitative to qualitative artificial intelligence. Journal of Medical Artificial Intelligence, 0, 2, 19-19.	1.1	4