

Uzay Kaymak

List of Publications by Year in descending order

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Version: 2024-02-01

173
papers

3,495
citations

201385

27
h-index

197535

49
g-index

180
all docs

180
docs citations

180
times ranked

2768
citing authors

#	ARTICLE	IF	CITATIONS
1	Similarity measures in fuzzy rule base simplification. IEEE Transactions on Systems, Man, and Cybernetics, 1998, 28, 376-386.	5.5	398
2	Genetic algorithms for supply-chain scheduling: A case study in the distribution of ready-mixed concrete. European Journal of Operational Research, 2007, 177, 2069-2099.	3.5	168
3	Remaining useful lifetime prediction via deep domain adaptation. Reliability Engineering and System Safety, 2020, 195, 106682.	5.1	142
4	Fuzzy clustering with volume prototypes and adaptive cluster merging. IEEE Transactions on Fuzzy Systems, 2002, 10, 705-712.	6.5	118
5	Cohen's kappa coefficient as a performance measure for feature selection. , 2010, , .		111
6	Genetic algorithms for optimization in predictive control. Control Engineering Practice, 1997, 5, 1363-1372.	3.2	101
7	A Survey of event extraction methods from text for decision support systems. Decision Support Systems, 2016, 85, 12-22.	3.5	89
8	-learning agents in a Cournot oligopoly model. Journal of Economic Dynamics and Control, 2008, 32, 3275-3293.	0.9	83
9	Modelling electrical conductivity of groundwater using an adaptive neuro-fuzzy inference system. Computers and Geosciences, 2006, 32, 421-433.	2.0	82
10	Model predictive control using fuzzy decision functions. IEEE Transactions on Systems, Man, and Cybernetics, 2001, 31, 54-65.	5.5	80
11	Polarity analysis of texts using discourse structure. , 2011, , .		73
12	Multi-lingual support for lexicon-based sentiment analysis guided by semantics. Decision Support Systems, 2014, 62, 43-53.	3.5	70
13	An Automated Framework for Incorporating News into Stock Trading Strategies. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 823-835.	4.0	66
14	Fuzzy criteria for feature selection. Fuzzy Sets and Systems, 2012, 189, 1-18.	1.6	65
15	Visualizing the computational intelligence field [Application Notes]. IEEE Computational Intelligence Magazine, 2006, 1, 6-10.	3.4	61
16	Elicitation of expert knowledge for fuzzy evaluation of agricultural production systems. Agriculture, Ecosystems and Environment, 2003, 95, 1-18.	2.5	58
17	Financial markets analysis by using a probabilistic fuzzy modelling approach. International Journal of Approximate Reasoning, 2004, 35, 291-305.	1.9	53
18	News personalization using the CF-IDF semantic recommender. , 2011, , .		52

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19	Fuzzy modeling of client preference from large data sets: an application to target selection in direct marketing. IEEE Transactions on Fuzzy Systems, 2001, 9, 153-163.	6.5	49
20	Using rhetorical structure in sentiment analysis. Communications of the ACM, 2015, 58, 69-77.	3.3	46
21	Determining negation scope and strength in sentiment analysis. , 2011, , .		43
22	A sensitivity analysis approach to introducing weight factors into decision functions in fuzzy multicriteria decision making. Fuzzy Sets and Systems, 1998, 97, 169-182.	1.6	42
23	tOWL: A Temporal Web Ontology Language. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 268-281.	5.5	42
24	On process mining in health care. , 2012, , .		40
25	Weighted Constraint Aggregation in Fuzzy Optimization. Constraints, 2003, 8, 61-78.	0.4	39
26	Conditional Density Estimation Using Probabilistic Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2013, 21, 869-882.	6.5	36
27	Factors affecting farmers's adoption of integrated rice-fish farming systems in the Mekong delta, Vietnam. Reviews in Aquaculture, 2012, 4, 178-190.	4.6	35
28	Interpretable clinical prediction via attention-based neural network. BMC Medical Informatics and Decision Making, 2020, 20, 131.	1.5	33
29	RDF-GL: A SPARQL-Based Graphical Query Language for RDF. Advanced Information and Knowledge Processing, 2010, , 87-116.	0.2	32
30	Simpful: A User-Friendly Python Library for Fuzzy Logic. International Journal of Computational Intelligence Systems, 2020, 13, 1687.	1.6	32
31	Systems Control With Generalized Probabilistic Fuzzy-Reinforcement Learning. IEEE Transactions on Fuzzy Systems, 2011, 19, 51-64.	6.5	31
32	Visualizing the Computational Intelligence Field. IEEE Computational Intelligence Magazine, 2006, 1, 6-10.	3.4	28
33	Corporate Social Responsibility Reputation (CSRR): Do Companies Comply with Their Raised CSR Expectations?. Corporate Reputation Review, 2011, 14, 300-323.	1.1	28
34	Dynamic Facet Ordering for Faceted Product Search Engines. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1004-1016.	4.0	28
35	Fuzzy Modeling for Reserve Estimation Based on Spatial Variability. Mathematical Geosciences, 2007, 39, 87-111.	0.9	27
36	Learning 2-Opt Heuristics for Routing Problems via Deep Reinforcement Learning. SN Computer Science, 2021, 2, 1.	2.3	27

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37	Mortality prediction of septic shock patients using probabilistic fuzzy systems. Applied Soft Computing Journal, 2016, 42, 194-203.	4.1	23
38	A New Fuzzy Set Merging Technique Using Inclusion-Based Fuzzy Clustering. IEEE Transactions on Fuzzy Systems, 2008, 16, 145-161.	6.5	21
39	Economic modeling using evolutionary algorithms: the effect of a binary encoding of strategies. Journal of Evolutionary Economics, 2011, 21, 737-756.	0.8	21
40	Knowledge Engineering in a Temporal Semantic Web Context. , 2008, , .		20
41	The AUK: A simple alternative to the AUC. Engineering Applications of Artificial Intelligence, 2012, 25, 1082-1089.	4.3	19
42	A generic methodology for developing fuzzy decision models. Expert Systems With Applications, 2012, 39, 1200-1210.	4.4	18
43	A Swarm Intelligence Approach to Avoid Local Optima in Fuzzy C-Means Clustering. , 2019, , .		18
44	pyFUME: a Python Package for Fuzzy Model Estimation. , 2020, , .		18
45	Prediction of the MSCI EURO index based on fuzzy grammar fragments extracted from European Central Bank statements. , 2010, , .		17
46	Ant colony optimization for RDF chain queries for decision support. Expert Systems With Applications, 2013, 40, 1555-1563.	4.4	17
47	Applying NSGA-II for Solving the Ontology Alignment Problem. , 2013, , .		17
48	RCQ-GA: RDF Chain Query Optimization Using Genetic Algorithms. Lecture Notes in Computer Science, 2009, , 181-192.	1.0	17
49	Spatial Knowledge Representation on the Semantic Web. , 2010, , .		16
50	Linguistic summaries of categorical time series for septic shock patient data. , 2013, , .		16
51	An open platform for personal health record apps with platform-level privacy protection. Computers in Biology and Medicine, 2014, 51, 14-23.	3.9	16
52	A meta-model for computer executable dynamic clinical safety checklists. BMC Medical Informatics and Decision Making, 2017, 17, 170.	1.5	16
53	Topic Modeling for Interpretable Text Classification From EHRs. Frontiers in Big Data, 2022, 5, .	1.8	15
54	Adaptive Tactical Pricing in Multi-Agent Supply Chain Markets Using Economic Regimes. Decision Sciences, 2015, 46, 791-818.	3.2	14

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55	Aligning Event Logs to Task-Time Matrix Clinical Pathways in BPMN for Variance Analysis. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 311-317.	3.9	14
56	tOWL: Integrating Time in OWL. , 2010, , 225-246.		14
57	Polarity classification using structure-based vector representations of text. Decision Support Systems, 2015, 74, 46-56.	3.5	13
58	Neural Networks for Target Selection in Direct Marketing. , 2002, , 89-111.		13
59	Prediction of Stock Price Movements Based on Concept Map Information. , 2007, , .		12
60	Value-at-risk estimation by using probabilistic fuzzy systems. , 2008, , .		12
61	Deep representation learning for individualized treatment effect estimation using electronic health records. Journal of Biomedical Informatics, 2019, 100, 103303.	2.5	12
62	A Reinforcement Learning Method to Select Ad Networks in Waterfall Strategy. , 2019, , .		11
63	Using fuzzy logic modelling to simulate farmersâ€™ decision-making on diversification and integration in the Mekong Delta, Vietnam. Soft Computing, 2011, 15, 295-310.	2.1	10
64	Patient-specific workup of adrenal incidentalomas. European Journal of Radiology Open, 2017, 4, 108-114.	0.7	10
65	Towards More Specific Estimation of Membership Functions for Data-Driven Fuzzy Inference Systems. , 2018, , .		10
66	FROM DISCRETE-TIME MODELS TO CONTINUOUS-TIME, ASYNCHRONOUS MODELING OF FINANCIAL MARKETS. Computational Intelligence, 2007, 23, 142-161.	2.1	9
67	Estimation of flexible fuzzy GARCH models for conditional density estimation. Information Sciences, 2014, 267, 252-266.	4.0	9
68	A news event-driven approach for the historical value at risk method. Expert Systems With Applications, 2015, 42, 4667-4675.	4.4	9
69	Influence of intraoperative hypotension on leaks after sleeve gastrectomy. Surgery for Obesity and Related Diseases, 2016, 12, 535-539.	1.0	9
70	Optimizing reserve prices for publishers in online ad auctions. , 2019, , .		9
71	A Decision Support Method to Increase the Revenue of Ad Publishers in Waterfall Strategy. , 2019, , .		9
72	A Graph Theory Approach to Fuzzy Rule Base Simplification. Communications in Computer and Information Science, 2020, , 387-401.	0.4	9

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73	Gradual Linguistic Summaries. Communications in Computer and Information Science, 2014, , 405-413.	0.4	9
74	Balancing Accuracy and Interpretability through Neuro-Fuzzy Models for Cardiovascular Risk Assessment. , 2021, , .		9
75	Assessing and modelling farmers' decision-making on integrating aquaculture into agriculture in the Mekong Delta. Njas - Wageningen Journal of Life Sciences, 2006, 53, 281-300.	7.9	8
76	Q-learning in a competitive supply chain. , 2007, , .		8
77	Modeling investor sentiment and overconfidence in an agent-based stock market. Human Systems Management, 2010, 29, 89-101.	0.5	8
78	A multi-covariate semi-parametric conditional volatility model using probabilistic fuzzy systems. , 2012, , .		8
79	A general framework for time-aware decision support systems. Expert Systems With Applications, 2013, 40, 399-407.	4.4	8
80	Analyzing conformance to clinical protocols involving advanced synchronizations. , 2013, , .		8
81	Lexicon-based sentiment analysis by mapping conveyed sentiment to intended sentiment. International Journal of Web Engineering and Technology, 2014, 9, 125.	0.1	8
82	A Comparative Study of Fuzzy Topic Models and LDA in terms of Interpretability. , 2021, , .		8
83	Fuzzy arithmetic-based interpolative reasoning for nonlinear dynamic fuzzy systems. Engineering Applications of Artificial Intelligence, 1998, 11, 781-789.	4.3	7
84	A new approach to dealing with missing values in data-driven fuzzy modeling. , 2010, , .		7
85	Local spatial regression models: a comparative analysis on soil contamination. Stochastic Environmental Research and Risk Assessment, 2012, 26, 1013-1023.	1.9	7
86	Evaluating geo-environmental variables using a clustering based areal model. Computers and Geosciences, 2012, 43, 34-41.	2.0	7
87	Design and implementation of a platform for configuring clinical dynamic safety checklist applications. Frontiers of Information Technology and Electronic Engineering, 2018, 19, 937-946.	1.5	7
88	Improved testing for vitamin B ₁₂ deficiency: correcting MMA for eGFR reduces the number of patients classified as vitamin B ₁₂ deficient. Annals of Clinical Biochemistry, 2018, 55, 685-692.	0.8	7
89	Optimal display-ad allocation with guaranteed contracts and supply side platforms. Computers and Industrial Engineering, 2019, 137, 106071.	3.4	7
90	An MSc program in computational economics with a focus on computational intelligence. IEEE Computational Intelligence Magazine, 2006, 1, 41-41.	3.4	6

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91	Temporal optimisations and temporal cardinality in the tOWL language. International Journal of Web Engineering and Technology, 2012, 7, 45.	0.1	6
92	Hybridizing genetic algorithms and hill climbing for similarity aggregation in ontology matching. , 2012, , .		6
93	Probabilistic fuzzy systems for seasonality analysis and multiple horizon forecasts. , 2014, , .		6
94	A method for improving the generation of linguistic summaries. , 2017, , .		6
95	Tremor assessment using smartphone sensor data and fuzzy reasoning. BMC Bioinformatics, 2021, 22, 57.	1.2	6
96	Probabilistic Fuzzy Systems as Additive Fuzzy Systems. Communications in Computer and Information Science, 2014, , 567-576.	0.4	6
97	Mining Economic Sentiment Using Argumentation Structures. Lecture Notes in Computer Science, 2010, , 200-209.	1.0	6
98	Visualizing the WCCI 2006 Knowledge Domain. , 2006, , .		5
99	Predicting septic shock outcomes in a database with missing data using fuzzy modeling: Influence of pre-processing techniques on real-world data-based classification. , 2011, , .		5
100	Metabolic Health Index (MHI): Assessment of Comorbidity in Bariatric Patients Based on Biomarkers. Obesity Surgery, 2020, 30, 714-724.	1.1	5
101	Evaluation of the Truth Value of Linguistic Summaries â€œ Case with Non-monotonic Quantifiers. Advances in Intelligent Systems and Computing, 2015, , 69-79.	0.5	5
102	Finding the Optimal Number of Features Basedâ€on Mutual Information. Advances in Intelligent Systems and Computing, 2018, , 477-486.	0.5	5
103	A Theoretical Analysis of Cooperative Behavior in Multi-agent Q-learning. , 2007, , .		4
104	Product pricing using adaptive real-time probability of acceptance estimations based on economic regimes. , 2009, , .		4
105	A framework for automatic annotation of web pages using the Google rich snippets vocabulary. , 2011, , .		4
106	Addressing health information privacy with a novel cloud-based PHR system architecture. , 2012, , .		4
107	Tracebook: A Dynamic Checklist Support System. , 2014, , .		4
108	Learning fuzzy decision trees using integer programming. , 2018, , .		4

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109	A Reward Shaping Approach for Reserve Price Optimization using Deep Reinforcement Learning. , 2021, ,		4
110	Probabilistic Reasoning in Fuzzy Rule-Based Systems. Advances in Intelligent and Soft Computing, 2002, , 189-196.	0.2	4
111	On Temporal Cardinality in the Context of the TOWL Language. Lecture Notes in Computer Science, 2008, , 457-466.	1.0	3
112	Fuzzy rule extraction from typicality and membership partitions. , 2008, ,		3
113	Overconfident investors in the LLS agent-based artificial financial market. , 2009, ,		3
114	Analysis of probabilistic fuzzy systems' parameters in conditional density estimation. , 2016, ,		3
115	Fuzzy Modeling for Vitamin B12 Deficiency. Communications in Computer and Information Science, 2016, , 462-471.	0.4	3
116	Fuzzy Logic based Pricing combined with Adaptive Search for Reserve Price Optimization in Online Ad Auctions. , 2019, ,		3
117	A PSO-based Algorithm for Reserve Price Optimization in Online Ad Auctions. , 2019, ,		3
118	No age thresholds in the emergency department: A retrospective cohort study on age differences. PLoS ONE, 2019, 14, e0210743.	1.1	3
119	Maximizing revenue for publishers using header bidding and ad exchange auctions. Operations Research Letters, 2021, 49, 250-256.	0.5	3
120	On the Notion of Statistical Fuzzy Entropy. , 2004, , 535-542.		3
121	Reinforcement Learning Method for Ad Networks Ordering in Real-Time Bidding. Lecture Notes in Computer Science, 2019, , 16-36.	1.0	3
122	Reserve price optimization with header bidding and Ad Exchange. , 2020, ,		3
123	An Automated Deep Reinforcement Learning Pipeline for Dynamic Pricing. IEEE Transactions on Artificial Intelligence, 2023, 4, 428-437.	3.4	3
124	A Bi-Objective Evolutionary Approach to Robust Scheduling. IEEE International Conference on Fuzzy Systems, 2007, ,	0.0	2
125	A fuzzy model of the MSCI EURO index based on content analysis of European Central Bank statements. , 2010, ,		2
126	A review of approaches for representing RCC8 in OWL. , 2010, ,		2

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127	A fuzzy model of a European index based on automatically extracted content information. , 2011, , .		2
128	Event-based historical Value-at-Risk. , 2012, , .		2
129	Probabilistic fuzzy prediction of mortality in intensive care units. , 2012, , .		2
130	An Evolutionary Model of Price Competition Among Spatially Distributed Firms. Computational Economics, 2013, 42, 373-391.	1.5	2
131	PCBA demand forecasting using an evolving Takagi-Sugeno system. , 2015, , .		2
132	Variance analysis in Task-Time matrix clinical pathways. , 2017, , .		2
133	Modeling patients' methylmalonic acid levels using probabilistic fuzzy systems. , 2017, , .		2
134	On the Interaction Between Feature Selection and Parameter Determination in Fuzzy Modelling. Communications in Computer and Information Science, 2018, , 150-161.	0.4	2
135	A Novel Multi-objective Approach to Fuzzy Clustering. , 2019, , .		2
136	A heuristic policy for dynamic pricing and demand learning with limited price changes and censored demand. , 2019, , .		2
137	Scalable entity resolution for Web product descriptions. Information Fusion, 2020, 53, 103-111.	11.7	2
138	Fuzzy Clustering in Classification Using Weighted Features. Lecture Notes in Computer Science, 2003, , 560-567.	1.0	2
139	Data and Cluster Weighting in Target Selection Based on Fuzzy Clustering. Lecture Notes in Computer Science, 2003, , 568-575.	1.0	2
140	Towards Multi-perspective Conformance Checking with Aggregation Operations. Communications in Computer and Information Science, 2020, , 215-229.	0.4	2
141	Dynamic Pricing Using Thompson Sampling with Fuzzy Events. Communications in Computer and Information Science, 2020, , 653-666.	0.4	2
142	Regional Spatial Analysis Combining Fuzzy Clustering and Non-parametric Correlation. Advances in Intelligent Systems and Computing, 2013, , 219-227.	0.5	2
143	Conditional Density Estimation Using Fuzzy GARCH Models. Advances in Intelligent Systems and Computing, 2013, , 173-181.	0.5	2
144	On Practical Applicability of the Generalized Averaging Operator in Fuzzy Decision Making. Studies in Fuzziness and Soft Computing, 2017, , 101-118.	0.6	2

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145	Fuzzy Temporal Graphs and Sequence Modelling in Scheduling Problem. Communications in Computer and Information Science, 2020, , 539-550.	0.4	2
146	A Markov model for inferring event types on diabetes patients data. Healthcare Analytics, 2022, 2, 100024.	2.6	2
147	Computing alignments with maximum synchronous moves via replay in coordinate planes. Information Sciences, 2022, 604, 280-297.	4.0	2
148	Gas field planning tool. Geologie En Mijnbouw/Netherlands Journal of Geosciences, 2001, 80, 103-105.	0.6	1
149	Fuzzy optimization of slab production from mechanical stone properties. Structural and Multidisciplinary Optimization, 2008, 37, 71-76.	1.7	1
150	Value-at-Risk Estimation with Fuzzy Histograms. , 2008, , .		1
151	Ant Feature Selection Using Fuzzy Decision Functions. Studies in Fuzziness and Soft Computing, 2010, , 343-364.	0.6	1
152	Towards a dynamic model of supply chain regimes for complex multi-agent markets. , 2010, , .		1
153	Constructing Rule-Based Models Using the Belief Functions Framework. Communications in Computer and Information Science, 2012, , 554-563.	0.4	1
154	A FML-based fuzzy tuning for a memetic ontology alignment system. , 2013, , .		1
155	Optimizing probabilistic fuzzy systems for classification using metaheuristics. , 2016, , .		1
156	An Enhanced Approach to Rule Base Simplification of First-Order Takagi-Sugeno Fuzzy Inference Systems. Advances in Intelligent Systems and Computing, 2018, , 92-103.	0.5	1
157	Fuzzy Classification of Bariatric Post-surgery Effectiveness. , 2018, , .		1
158	Guest Editorial: Deep Fuzzy Models. IEEE Transactions on Fuzzy Systems, 2020, 28, 1191-1194.	6.5	1
159	Learning 2-opt Local Search from Heuristics as Expert Demonstrations. , 2021, , .		1
160	A Smartphone-Based Clinical Decision Support System for Tremor Assessment. Lecture Notes in Computer Science, 2020, , 3-12.	1.0	1
161	Lost and Found: Predicting Airline Baggage At-risk of Being Mishandled. , 2020, , .		1
162	A Heuristic Lotting Method for Electronic Reverse Auctions. Lecture Notes in Computer Science, 2003, , 324-331.	1.0	0

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163	On constructing probabilistic fuzzy classifiers from weighted fuzzy clustering. , 0, , .		0
164	Cognitive and Smart Adaptation in Computer-Communication Networks. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 1216-1217.	5.5	0
165	Identifying and predicting economic regimes in supply chains using sales and procurement information. , 2009, , .		0
166	Modeling loss aversion and biased self-attribution using a fuzzy aggregation operator. , 2010, , .		0
167	Multivariate time-varying volatility modeling using Probabilistic Fuzzy Systems. , 2016, , .		0
168	Modeling participation behavior in repeated task allocations with fuzzy connectives. , 2017, , .		0
169	On accurate, automated and insightful deviation analysis of clinical protocols. , 2018, , .		0
170	The understanding of the quantifiers "many"™ and "most"™. , 2018, , .		0
171	Dynamic Facet Ordering for Faceted Product Search Engines (Extended Abstract). , 2018, , .		0
172	TS-Models from Evidential Clustering. Communications in Computer and Information Science, 2010, , 228-237.	0.4	0
173	Dynamic Ad Network Ordering Method Using Reinforcement Learning. International Journal of Computational Intelligence Systems, 2022, 15, 1.	1.6	0