

# 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	An Automated Deep Reinforcement Learning Pipeline for Dynamic Pricing. IEEE Transactions on Artificial Intelligence, 2023, 4, 428-437.	3.4	3
2	A Markov model for inferring event types on diabetes patients data. Healthcare Analytics, 2022, 2, 100024.	2.6	2
3	Dynamic Ad Network Ordering Method Using Reinforcement Learning. International Journal of Computational Intelligence Systems, 2022, 15, 1.	1.6	0
4	Computing alignments with maximum synchronous moves via replay in coordinate planes. Information Sciences, 2022, 604, 280-297.	4.0	2
5	Topic Modeling for Interpretable Text Classification From EHRs. Frontiers in Big Data, 2022, 5, .	1.8	15
6	Maximizing revenue for publishers using header bidding and ad exchange auctions. Operations Research Letters, 2021, 49, 250-256.	0.5	3
7	Tremor assessment using smartphone sensor data and fuzzy reasoning. BMC Bioinformatics, 2021, 22, 57.	1.2	6
8	Learning 2-opt Local Search from Heuristics as Expert Demonstrations. , 2021, , .		1
9	A Reward Shaping Approach for Reserve Price Optimization using Deep Reinforcement Learning. , 2021, , .		4
10	Learning 2-Opt Heuristics for Routing Problems via Deep Reinforcement Learning. SN Computer Science, 2021, 2, 1.	2.3	27
11	Balancing Accuracy and Interpretability through Neuro-Fuzzy Models for Cardiovascular Risk Assessment. , 2021, , .		9
12	A Comparative Study of Fuzzy Topic Models and LDA in terms of Interpretability. , 2021, , .		8
13	Scalable entity resolution for Web product descriptions. Information Fusion, 2020, 53, 103-111.	11.7	2
14	Remaining useful lifetime prediction via deep domain adaptation. Reliability Engineering and System Safety, 2020, 195, 106682.	5.1	142
15	Metabolic Health Index (MHI): Assessment of Comorbidity in Bariatric Patients Based on Biomarkers. Obesity Surgery, 2020, 30, 714-724.	1.1	5
16	Guest Editorial: Deep Fuzzy Models. IEEE Transactions on Fuzzy Systems, 2020, 28, 1191-1194.	6.5	1
17	Interpretable clinical prediction via attention-based neural network. BMC Medical Informatics and Decision Making, 2020, 20, 131.	1.5	33
18	pyFUME: a Python Package for Fuzzy Model Estimation. , 2020, , .		18

#	ARTICLE	IF	CITATIONS
19	Towards Multi-perspective Conformance Checking with Aggregation Operations. Communications in Computer and Information Science, 2020, , 215-229.	0.4	2
20	A Graph Theory Approach to Fuzzy Rule Base Simplification. Communications in Computer and Information Science, 2020, , 387-401.	0.4	9
21	Dynamic Pricing Using Thompson Sampling with Fuzzy Events. Communications in Computer and Information Science, 2020, , 653-666.	0.4	2
22	Simpful: A User-Friendly Python Library for Fuzzy Logic. International Journal of Computational Intelligence Systems, 2020, 13, 1687.	1.6	32
23	Fuzzy Temporal Graphs and Sequence Modelling in Scheduling Problem. Communications in Computer and Information Science, 2020, , 539-550.	0.4	2
24	A Smartphone-Based Clinical Decision Support System for Tremor Assessment. Lecture Notes in Computer Science, 2020, , 3-12.	1.0	1
25	Lost and Found: Predicting Airline Baggage At-risk of Being Mishandled. , 2020, , .		1
26	Reserve price optimization with header bidding and Ad Exchange. , 2020, , .		3
27	Deep representation learning for individualized treatment effect estimation using electronic health records. Journal of Biomedical Informatics, 2019, 100, 103303.	2.5	12
28	Fuzzy Logic based Pricing combined with Adaptive Search for Reserve Price Optimization in Online Ad Auctions. , 2019, , .		3
29	A Swarm Intelligence Approach to Avoid Local Optima in Fuzzy C-Means Clustering. , 2019, , .		18
30	A PSO-based Algorithm for Reserve Price Optimization in Online Ad Auctions. , 2019, , .		3
31	Optimizing reserve prices for publishers in online ad auctions. , 2019, , .		9
32	A Decision Support Method to Increase the Revenue of Ad Publishers in Waterfall Strategy. , 2019, , .		9
33	Optimal display-ad allocation with guaranteed contracts and supply side platforms. Computers and Industrial Engineering, 2019, 137, 106071.	3.4	7
34	No age thresholds in the emergency department: A retrospective cohort study on age differences. PLoS ONE, 2019, 14, e0210743.	1.1	3
35	A Novel Multi-objective Approach to Fuzzy Clustering. , 2019, , .		2
36	A heuristic policy for dynamic pricing and demand learning with limited price changes and censored demand. , 2019, , .		2

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37	A Reinforcement Learning Method to Select Ad Networks in Waterfall Strategy. , 2019, , .		11
38	Reinforcement Learning Method for Ad Networks Ordering in Real-Time Bidding. Lecture Notes in Computer Science, 2019, , 16-36.	1.0	3
39	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
40	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
41	Towards More Specific Estimation of Membership Functions for Data-Driven Fuzzy Inference Systems. , 2018, , .		10
42	On accurate, automated and insightful deviation analysis of clinical protocols. , 2018, , .		0
43	The understanding of the quantifiers "many" and "most". , 2018, , .		0
44	Dynamic Facet Ordering for Faceted Product Search Engines (Extended Abstract). , 2018, , .		0
45	Learning fuzzy decision trees using integer programming. , 2018, , .		4
46	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
47	Fuzzy Classification of Bariatric Post-surgery Effectiveness. , 2018, , .		1
48	On the Interaction Between Feature Selection and Parameter Determination in Fuzzy Modelling. Communications in Computer and Information Science, 2018, , 150-161.	0.4	2
49	Improved testing for vitamin B <sub>12</sub> deficiency: correcting MMA for eGFR reduces the number of patients classified as vitamin B <sub>12</sub> deficient. Annals of Clinical Biochemistry, 2018, 55, 685-692.	0.8	7
50	Finding the Optimal Number of Features Based on Mutual Information. Advances in Intelligent Systems and Computing, 2018, , 477-486.	0.5	5
51	Dynamic Facet Ordering for Faceted Product Search Engines. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 1004-1016.	4.0	28
52	Variance analysis in Task-Time matrix clinical pathways. , 2017, , .		2
53	Modeling patients' methylmalonic acid levels using probabilistic fuzzy systems. , 2017, , .		2
54	Patient-specific workup of adrenal incidentalomas. European Journal of Radiology Open, 2017, 4, 108-114.	0.7	10

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55	A method for improving the generation of linguistic summaries. , 2017, , .		6
56	Modeling participation behavior in repeated task allocations with fuzzy connectives. , 2017, , .		0
57	A meta-model for computer executable dynamic clinical safety checklists. BMC Medical Informatics and Decision Making, 2017, 17, 170.	1.5	16
58	On Practical Applicability of the Generalized Averaging Operator in Fuzzy Decision Making. Studies in Fuzziness and Soft Computing, 2017, , 101-118.	0.6	2
59	Multivariate time-varying volatility modeling using Probabilistic Fuzzy Systems. , 2016, , .		0
60	Analysis of probabilistic fuzzy systems' parameters in conditional density estimation. , 2016, , .		3
61	Influence of intraoperative hypotension on leaks after sleeve gastrectomy. Surgery for Obesity and Related Diseases, 2016, 12, 535-539.	1.0	9
62	Optimizing probabilistic fuzzy systems for classification using metaheuristics. , 2016, , .		1
63	Fuzzy Modeling for Vitamin B12 Deficiency. Communications in Computer and Information Science, 2016, , 462-471.	0.4	3
64	A Survey of event extraction methods from text for decision support systems. Decision Support Systems, 2016, 85, 12-22.	3.5	89
65	Mortality prediction of septic shock patients using probabilistic fuzzy systems. Applied Soft Computing Journal, 2016, 42, 194-203.	4.1	23
66	PCBA demand forecasting using an evolving Takagi-Sugeno system. , 2015, , .		2
67	Adaptive Tactical Pricing in Multi-Agent Supply Chain Markets Using Economic Regimes. Decision Sciences, 2015, 46, 791-818.	3.2	14
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	Using rhetorical structure in sentiment analysis. Communications of the ACM, 2015, 58, 69-77.	3.3	46
70	Polarity classification using structure-based vector representations of text. Decision Support Systems, 2015, 74, 46-56.	3.5	13
71	Evaluation of the Truth Value of Linguistic Summaries " Case with Non-monotonic Quantifiers. Advances in Intelligent Systems and Computing, 2015, , 69-79.	0.5	5
72	Multi-lingual support for lexicon-based sentiment analysis guided by semantics. Decision Support Systems, 2014, 62, 43-53.	3.5	70

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73	An Automated Framework for Incorporating News into Stock Trading Strategies. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 823-835.	4.0	66
74	Tracebook: A Dynamic Checklist Support System. , 2014, , .		4
75	Probabilistic fuzzy systems for seasonality analysis and multiple horizon forecasts. , 2014, , .		6
76	Estimation of flexible fuzzy GARCH models for conditional density estimation. Information Sciences, 2014, 267, 252-266.	4.0	9
77	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
78	Lexicon-based sentiment analysis by mapping conveyed sentiment to intended sentiment. International Journal of Web Engineering and Technology, 2014, 9, 125.	0.1	8
79	Probabilistic Fuzzy Systems as Additive Fuzzy Systems. Communications in Computer and Information Science, 2014, , 567-576.	0.4	6
80	Gradual Linguistic Summaries. Communications in Computer and Information Science, 2014, , 405-413.	0.4	9
81	A general framework for time-aware decision support systems. Expert Systems With Applications, 2013, 40, 399-407.	4.4	8
82	An Evolutionary Model of Price Competition Among Spatially Distributed Firms. Computational Economics, 2013, 42, 373-391.	1.5	2
83	Ant colony optimization for RDF chain queries for decision support. Expert Systems With Applications, 2013, 40, 1555-1563.	4.4	17
84	Linguistic summaries of categorical time series for septic shock patient data. , 2013, , .		16
85	Conditional Density Estimation Using Probabilistic Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2013, 21, 869-882.	6.5	36
86	Applying NSGA-II for Solving the Ontology Alignment Problem. , 2013, , .		17
87	Analyzing conformance to clinical protocols involving advanced synchronizations. , 2013, , .		8
88	A FML-based fuzzy tuning for a memetic ontology alignment system. , 2013, , .		1
89	Regional Spatial Analysis Combining Fuzzy Clustering and Non-parametric Correlation. Advances in Intelligent Systems and Computing, 2013, , 219-227.	0.5	2
90	Conditional Density Estimation Using Fuzzy GARCH Models. Advances in Intelligent Systems and Computing, 2013, , 173-181.	0.5	2

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91	Constructing Rule-Based Models Using the Belief Functions Framework. Communications in Computer and Information Science, 2012, , 554-563.	0.4	1
92	Addressing health information privacy with a novel cloud-based PHR system architecture. , 2012, , .		4
93	Temporal optimisations and temporal cardinality in the tOWL language. International Journal of Web Engineering and Technology, 2012, 7, 45.	0.1	6
94	Local spatial regression models: a comparative analysis on soil contamination. Stochastic Environmental Research and Risk Assessment, 2012, 26, 1013-1023.	1.9	7
95	A multi-covariate semi-parametric conditional volatility model using probabilistic fuzzy systems. , 2012, , .		8
96	Event-based historical Value-at-Risk. , 2012, , .		2
97	The AUK: A simple alternative to the AUC. Engineering Applications of Artificial Intelligence, 2012, 25, 1082-1089.	4.3	19
98	Probabilistic fuzzy prediction of mortality in intensive care units. , 2012, , .		2
99	Factors affecting farmersâ€™ adoption of integrated riceâ€“fish farming systems in the Mekong delta, Vietnam. Reviews in Aquaculture, 2012, 4, 178-190.	4.6	35
100	Hybridizing genetic algorithms and hill climbing for similarity aggregation in ontology matching. , 2012, , .		6
101	On process mining in health care. , 2012, , .		40
102	Evaluating geo-environmental variables using a clustering based areal model. Computers and Geosciences, 2012, 43, 34-41.	2.0	7
103	Fuzzy criteria for feature selection. Fuzzy Sets and Systems, 2012, 189, 1-18.	1.6	65
104	A generic methodology for developing fuzzy decision models. Expert Systems With Applications, 2012, 39, 1200-1210.	4.4	18
105	tOWL: A Temporal Web Ontology Language. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 268-281.	5.5	42
106	Determining negation scope and strength in sentiment analysis. , 2011, , .		43
107	A fuzzy model of a European index based on automatically extracted content information. , 2011, , .		2
108	Corporate Social Responsibility Reputation (CSRR): Do Companies Comply with Their Raised CSR Expectations?. Corporate Reputation Review, 2011, 14, 300-323.	1.1	28

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109	Systems Control With Generalized Probabilistic Fuzzy-Reinforcement Learning. IEEE Transactions on Fuzzy Systems, 2011, 19, 51-64.	6.5	31
110	Using fuzzy logic modelling to simulate farmers's decision-making on diversification and integration in the Mekong Delta, Vietnam. Soft Computing, 2011, 15, 295-310.	2.1	10
111	Economic modeling using evolutionary algorithms: the effect of a binary encoding of strategies. Journal of Evolutionary Economics, 2011, 21, 737-756.	0.8	21
112	Polarity analysis of texts using discourse structure. , 2011, , .		73
113	A framework for automatic annotation of web pages using the Google rich snippets vocabulary. , 2011, , .		4
114	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
115	News personalization using the CF-IDF semantic recommender. , 2011, , .		52
116	Modeling investor sentiment and overconfidence in an agent-based stock market. Human Systems Management, 2010, 29, 89-101.	0.5	8
117	Ant Feature Selection Using Fuzzy Decision Functions. Studies in Fuzziness and Soft Computing, 2010, , 343-364.	0.6	1
118	A fuzzy model of the MSCI EURO index based on content analysis of European Central Bank statements. , 2010, , .		2
119	Towards a dynamic model of supply chain regimes for complex multi-agent , 2010, , .		1
120	Spatial Knowledge Representation on the Semantic Web. , 2010, , .		16
121	Prediction of the MSCI EURO index based on fuzzy grammar fragments extracted from European Central Bank statements. , 2010, , .		17
122	Modeling loss aversion and biased self-attribution using a fuzzy aggregation operator. , 2010, , .		0
123	A review of approaches for representing RCC8 in OWL. , 2010, , .		2
124	Cohen's kappa coefficient as a performance measure for feature selection. , 2010, , .		111
125	A new approach to dealing with missing values in data-driven fuzzy modeling. , 2010, , .		7
126	RDF-GL: A SPARQL-Based Graphical Query Language for RDF. Advanced Information and Knowledge Processing, 2010, , 87-116.	0.2	32



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127	tOWL: Integrating Time in OWL. , 2010, , 225-246.		14
128	Mining Economic Sentiment Using Argumentation Structures. Lecture Notes in Computer Science, 2010, , 200-209.	1.0	6
129	TS-Models from Evidential Clustering. Communications in Computer and Information Science, 2010, , 228-237.	0.4	0
130	Overconfident investors in the LLS agent-based artificial financial market. , 2009, , .		3
131	Identifying and predicting economic regimes in supply chains using sales and procurement information. , 2009, , .		0
132	Product pricing using adaptive real-time probability of acceptance estimations based on economic regimes. , 2009, , .		4
133	RCQ-GA: RDF Chain Query Optimization Using Genetic Algorithms. Lecture Notes in Computer Science, 2009, , 181-192.	1.0	17
134	Fuzzy optimization of slab production from mechanical stone properties. Structural and Multidisciplinary Optimization, 2008, 37, 71-76.	1.7	1
135	-learning agents in a Cournot oligopoly model. Journal of Economic Dynamics and Control, 2008, 32, 3275-3293.	0.9	83
136	On Temporal Cardinality in the Context of the TOWL Language. Lecture Notes in Computer Science, 2008, , 457-466.	1.0	3
137	A New Fuzzy Set Merging Technique Using Inclusion-Based Fuzzy Clustering. IEEE Transactions on Fuzzy Systems, 2008, 16, 145-161.	6.5	21
138	Value-at-Risk Estimation with Fuzzy Histograms. , 2008, , .		1
139	Value-at-risk estimation by using probabilistic fuzzy systems. , 2008, , .		12
140	Fuzzy rule extraction from typicality and membership partitions. , 2008, , .		3
141	Knowledge Engineering in a Temporal Semantic Web Context. , 2008, , .		20
142	Q-learning in a competitive supply chain. , 2007, , .		8
143	A Bi-Objective Evolutionary Approach to Robust Scheduling. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	2
144	Prediction of Stock Price Movements Based on Concept Map Information. , 2007, , .		12

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145	A Theoretical Analysis of Cooperative Behavior in Multi-agent Q-learning. , 2007, , .		4
146	FROM DISCRETE-TIME MODELS TO CONTINUOUS-TIME, ASYNCHRONOUS MODELING OF FINANCIAL MARKETS. Computational Intelligence, 2007, 23, 142-161.	2.1	9
147	Fuzzy Modeling for Reserve Estimation Based on Spatial Variability. Mathematical Geosciences, 2007, 39, 87-111.	0.9	27
148	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
149	Cognitive and Smart Adaptation in Computer-Communication Networks. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 1216-1217.	5.5	0
150	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
151	Visualizing the Computational Intelligence Field. IEEE Computational Intelligence Magazine, 2006, 1, 6-10.	3.4	28
152	Modelling electrical conductivity of groundwater using an adaptive neuro-fuzzy inference system. Computers and Geosciences, 2006, 32, 421-433.	2.0	82
153	An MSc program in computational economics with a focus on computational intelligence. IEEE Computational Intelligence Magazine, 2006, 1, 41-41.	3.4	6
154	Visualizing the computational intelligence field [Application Notes]. IEEE Computational Intelligence Magazine, 2006, 1, 6-10.	3.4	61
155	Visualizing the WCCI 2006 Knowledge Domain. , 2006, , .		5
156	Financial markets analysis by using a probabilistic fuzzy modelling approach. International Journal of Approximate Reasoning, 2004, 35, 291-305.	1.9	53
157	On the Notion of Statistical Fuzzy Entropy. , 2004, , 535-542.		3
158	Weighted Constraint Aggregation in Fuzzy Optimization. Constraints, 2003, 8, 61-78.	0.4	39
159	Elicitation of expert knowledge for fuzzy evaluation of agricultural production systems. Agriculture, Ecosystems and Environment, 2003, 95, 1-18.	2.5	58
160	A Heuristic Lotting Method for Electronic Reverse Auctions. Lecture Notes in Computer Science, 2003, , 324-331.	1.0	0
161	Fuzzy Clustering in Classification Using Weighted Features. Lecture Notes in Computer Science, 2003, , 560-567.	1.0	2
162	Data and Cluster Weighting in Target Selection Based on Fuzzy Clustering. Lecture Notes in Computer Science, 2003, , 568-575.	1.0	2

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163	Fuzzy clustering with volume prototypes and adaptive cluster merging. IEEE Transactions on Fuzzy Systems, 2002, 10, 705-712.	6.5	118
164	Neural Networks for Target Selection in Direct Marketing. , 2002, , 89-111.		13
165	Probabilistic Reasoning in Fuzzy Rule-Based Systems. Advances in Intelligent and Soft Computing, 2002, , 189-196.	0.2	4
166	Model predictive control using fuzzy decision functions. IEEE Transactions on Systems, Man, and Cybernetics, 2001, 31, 54-65.	5.5	80
167	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
168	Gas field planning tool. Geologie En Mijnbouw/Netherlands Journal of Geosciences, 2001, 80, 103-105.	0.6	1
169	Fuzzy arithmetic-based interpolative reasoning for nonlinear dynamic fuzzy systems. Engineering Applications of Artificial Intelligence, 1998, 11, 781-789.	4.3	7
170	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
171	Similarity measures in fuzzy rule base simplification. IEEE Transactions on Systems, Man, and Cybernetics, 1998, 28, 376-386.	5.5	398
172	Genetic algorithms for optimization in predictive control. Control Engineering Practice, 1997, 5, 1363-1372.	3.2	101
173	On constructing probabilistic fuzzy classifiers from weighted fuzzy clustering. , 0, , .		0