K Robert Lai

List of Publications by Year
in descending order

70 papers	1,071 citations	393982 19 h-index	433756 31 g-index
72 all docs	72 docs citations	72 times ranked	1109 citing authors

#	Article	IF	Citations
1	Refining Word Embeddings Using Intensity Scores for Sentiment Analysis. IEEE/ACM Transactions on Audio Speech and Language Processing, 2018, 26, 671-681.	4.0	116
2	Who will pass? Analyzing learner behaviors in MOOCs. Research and Practice in Technology Enhanced Learning, 2016, 11, 8.	1.9	82
3	Tree-Structured Regional CNN-LSTM Model for Dimensional Sentiment Analysis. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 581-591.	4.0	71
4	Modeling Agent Negotiation Via Fuzzy Constraints in E-Business. Computational Intelligence, 2004, 20, 624-642.	2.1	52
5	A hybrid system by evolving case-based reasoning with genetic algorithm in wholesaler's returning book forecasting. Decision Support Systems, 2006, 42, 1715-1729.	3.5	52
6	Agent-based fuzzy constraint-directed negotiation mechanism for distributed job shop scheduling. Engineering Applications of Artificial Intelligence, 2016, 53, 140-154.	4.3	47
7	Epidemiology and socioeconomic features of appendicitis in Taiwan: a 12-year population-based study. World Journal of Emergency Surgery, 2015, 10, 42.	2.1	45
8	Automatic Dangerous Driving Intensity Analysis for Advanced Driver Assistance Systems From Multimodal Driving Signals. IEEE Sensors Journal, 2018, 18, 4785-4794.	2.4	42
9	Community-Based Weighted Graph Model for Valence-Arousal Prediction of Affective Words. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 1957-1968.	4.0	35
10	Enrichment of Peer Assessment with Agent Negotiation. IEEE Transactions on Learning Technologies, 2011, 4, 35-46.	2.2	33
11	Generic QoS-Aware Interleaved Dynamic Bandwidth Allocation in Scalable EPONs. Journal of Optical Communications and Networking, 2012, 4, 99.	3.3	32
12	Negotiation based adaptive learning sequences: Combining adaptivity and adaptability. Computers and Education, 2015, 88, 215-226.	5.1	32
13	Scalable Architecture for VOD Service Enhancement Based on a Cache Scheme in an Ethernet Passive Optical Network. Journal of Optical Communications and Networking, 2013, 5, 271.	3.3	28
14	Outcome comparison between percutaneous cholecystostomy and cholecystectomy: a 10-year population-based analysis. BMC Surgery, 2017, 17, 130.	0.6	27
15	Identifying Emotion Labels From Psychiatric Social Texts Using a Bi-Directional LSTM-CNN Model. IEEE Access, 2020, 8, 66638-66646.	2.6	27
16	An agent-based fuzzy constraint-directed negotiation model for solving supply chain planning and scheduling problems. Applied Soft Computing Journal, 2016, 48, 703-715.	4.1	26
17	UbiNet: an online resource for exploring the functional associations and regulatory networks of protein ubiquitylation. Database: the Journal of Biological Databases and Curation, 2016, 2016, baw054.	1.4	25
18	Open Student Models of Core Competencies at the Curriculum Level: Using Learning Analytics for Student Reflection. IEEE Transactions on Emerging Topics in Computing, 2017, 5, 32-44.	3.2	25

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19	A negotiation-based adaptive learning system for regulating help-seeking behaviors. Computers and Education, 2018, 126, 115-128.	5.1	25
20	Ambient Air Pollution and the Risk of Central Retinal Artery Occlusion. Ophthalmology, 2016, 123, 2603-2609.	2.5	23
21	Identification of natural antimicrobial peptides from bacteria through metagenomic and metatranscriptomic analysis of high-throughput transcriptome data of Taiwanese oolong teas. BMC Systems Biology, 2017, 11, 131.	3.0	19
22	Learning opponent's beliefs via fuzzy constraint-directed approach to make effective agent negotiation. Applied Intelligence, 2010, 33, 232-246.	3.3	18
23	Effect of socioeconomic inequalities on cholecystectomy outcomes: a 10-year population-based analysis. International Journal for Equity in Health, 2018, 17, 22.	1.5	18
24	Driver Danger-Level Monitoring System Using Multi-Sourced Big Driving Data. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 5271-5282.	4.7	15
25	Fuzzy Constraint-Based Agent Negotiation. Journal of Computer Science and Technology, 2005, 20, 319-330.	0.9	14
26	Does the Short-Term Effect of Air Pollution Influence the Incidence of Spontaneous Intracerebral Hemorrhage in Different Patient Groups? Big Data Analysis in Taiwan. International Journal of Environmental Research and Public Health, 2017, 14, 1547.	1.2	13
27	Differences in Spontaneous Intracerebral Hemorrhage Cases between Urban and Rural Regions of Taiwan: Big Data Analytics of Government Open Data. International Journal of Environmental Research and Public Health, 2017, 14, 1548.	1.2	12
28	Agent-based fuzzy constraint-directed negotiation for service level agreements in cloud computing. Cluster Computing, 2018, 21, 1349-1363.	3.5	12
29	Systemic lupus erythematosus is associated with poor outcome after acute myocardial infarction. Nutrition, Metabolism and Cardiovascular Diseases, 2019, 29, 1400-1407.	1.1	10
30	Pipelined Neural Networks for Phrase-Level Sentiment Intensity Prediction. IEEE Transactions on Affective Computing, 2020, 11, 447-458.	5.7	10
31	Genetic expression programming: a new approach for QoS traffic prediction in EPONs. Photonic Network Communications, 2013, 25, 156-165.	1.4	9
32	A Study of the Effects of Daily Physical Activity on Memory and Attention Capacities in College Students. Journal of Healthcare Engineering, 2018, 2018, 1-9.	1.1	9
33	Trends and outcomes in the utilization of laparoscopic appendectomies in a low-income population in Taiwan from 2003 to 2011. International Journal for Equity in Health, 2015, 14, 100.	1.5	8
34	Momentum-Based Motion Detection Methodology for Handoff in Wireless Networks. , 2008, , .		5
35	Multi-hop Auction-Based Bandwidth Allocation in Wireless Ad Hoc Networks. , 2011, , .		4
36	Pre-Emergency-Department Care-Seeking Patterns Are Associated with the Severity of Presenting Condition for Emergency Department Visit and Subsequent Adverse Events: A Timeframe Episode Analysis. PLoS ONE, 2015, 10, e0127793.	1.1	4

#	Article	IF	Citations
37	Modeling Beer Game as Role-Play Collaborative Learning via Fuzzy Constraint-Directed Agent Negotiation. , 2008, , .		3
38	Developing a Negotiation-Based Intelligent Tutoring System to Support Problem Solving: A Case Study in Role-Play Learning. , 2008, , .		3
39	Development of Business Game Simulator for Supporting Collaborative Problem-Based Learning. , 2009, , .		3
40	Reduced Idle Listening Based Medium Access Control Protocol for Wireless Sensor Networks. , 2010, , .		3
41	Auction-Based Bandwidth Allocation in Multi-Hop Wireless Ad Hoc Networks. Wireless Personal Communications, 2013, 71, 929-945.	1.8	3
42	Data-Driven Behavior-Based Negotiation Model for Cyber-Physical-Social Systems. IEEE Access, 2019, 7, 83319-83331.	2.6	3
43	Constraint-Based Fuzzy Models for an Environment with Heterogeneous Information-Granules. Journal of Computer Science and Technology, 2006, 21, 401-411.	0.9	2
44	A Fuzzy Constraint-Directed Autonomous Learning to Support Agent Negotiation. , 2007, , .		2
45	Adaptive QoS-Aware Resource Management in Heterogeneous Wireless Networks. , 2008, , .		2
46	An Integrated ISV Call Management Strategy in Heterogeneous Wireless Networks. , 2008, , .		2
47	A Conceptual Framework of Learning through Agent Negotiation. , 2010, , .		2
48	A Multi-hop Dynamic Connectivity and Maintenance Algorithm for Wireless Sensor Networks. , 2011, , .		2
49	Learning analytics on graduatesâ€™ academic records to reflect on a competencyâ€ based curriculum. Computer Applications in Engineering Education, 2018, 26, 2168-2182.	2.2	2
50	Constraint-directed business simulation for supporting game-based problem-based learning. , 2009, , .		2
51	Effect of Learning Styles on Peer Assessment in an Agent-based Collaborative Learning Environment. , 2007, , .		1
52	Fuzzy constraint-directed negotiation mechanism as a framework for multi-agent scheduling. , 2008, , .		1
53	A constraint-based framework for incorporating a priori knowledge into fuzzy modelling. , 2008, , .		1
54	Supporting Adaptive Learning Sequences with Agent Negotiation. , 2012, , .		1

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55	An Analysis of Goal Orientation Pattern and Self-Efficacy for Explanation of Programming Plans. , 2015, , .		1
56	Design of an NGS MicroRNA predictor using multilayer hierarchical MapReduce framework. , 2015, , .		1
57	Outcomes in the Utilization of Single Percutaneous Cholecystostomy in a Low-Income Population. International Journal of Environmental Research and Public Health, 2017, 14, 1601.	1.2	1
58	Using an analogical reasoning framework to infer language patterns for negative life events. BMC Medical Informatics and Decision Making, 2019, 19, 173.	1.5	1
59	Modeling Opponentâ€™s Beliefs Via Fuzzy Constraint-Directed Approach in Agent Negotiation. , 2007, , 167-178.		1
60	Modeling Distributed Scheduling via Fuzzy Constraint-Based Agent Negotiation. , 2007, , .		0
61	Beliefs learning in fuzzy constraint-directed agent negotiation. , 2008, , .		0
62	Incorporating Agent Negotiation into Adaptive Learning Environment to Balance the Perspectives between Learners and Instructors. , 2009, , .		0
63	Modeling Collaborative Design via Fuzzy Constraint-Based Agent Negotiation. , 2009, , .		0
64	Density Control-Based Algorithms for Dynamic Maintenance in Sensor Networks with Limited Mobility. , 2010, , .		0
65	A framework of fuzzy constraint-directed agent negotiation with learning element. , 2012, , .		0
66	Learning through Agent Negotiation: A Conceptual Framework. , 2012, , .		0
67	An Operational Concept Map to Facilitate Physics Problem Solving. , 2013, , .		0
68	Analysis of modifier structure for emotion expressions. , 2014, , .		0
69	The Epidemiology and Cost of Hospital-Treated Traumatic Brain Injuries. , 2018, , .		0
70	Developing a Negotiation Mechanism for Agent-Based Scheduling Via Fuzzy Constraints. Lecture Notes in Computer Science, 2007, , 682-692.	1.0	0