

Ray-I Chang

List of Publications by Year in descending order

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124
papers

900
citations

759233

12
h-index

610901

24
g-index

124
all docs

124
docs citations

124
times ranked

690
citing authors

#	ARTICLE	IF	CITATIONS
1	Data mining for providing a personalized learning path in creativity: An application of decision trees. Computers and Education, 2013, 68, 199-210.	8.3	166
2	Survey of learning experiences and influence of learning style preferences on user intentions regarding MOOCs. British Journal of Educational Technology, 2015, 46, 528-541.	6.3	74
3	Hybrid learning style identification and developing adaptive problem-solving learning activities. Computers in Human Behavior, 2016, 55, 552-561.	8.5	46
4	Query-Based Learning for Dynamic Particle Swarm Optimization. IEEE Access, 2017, 5, 7648-7658.	4.2	27
5	Niched ant colony optimization with colony guides for QoS multicast routing. Journal of Network and Computer Applications, 2014, 40, 61-72.	9.1	26
6	Two-stage classification of tuberculosis culture diagnosis using convolutional neural network with transfer learning. Journal of Supercomputing, 2020, 76, 8641-8656.	3.6	26
7	Intrusion Detection by Backpropagation Neural Networks with Sample-Query and Attribute-Query. International Journal of Computational Intelligence Research, 2007, 3, .	0.3	24
8	Complete font generation of Chinese characters in personal handwriting style. , 2015, , .		22
9	A novel content based image retrieval system using K-means/KNN with feature extraction. Computer Science and Information Systems, 2012, 9, 1645-1661.	1.0	20
10	Effective distributed service architecture for ubiquitous video surveillance. Information Systems Frontiers, 2012, 14, 499-515.	6.4	17
11	An effective and efficient traffic smoothing scheme for delivery of online VBR media streams. , 1999, , .		16
12	Designing the ON-OFF CBR transmission schedule for jitter-free VBR media playback in real-time networks. , 0, , .		15
13	<title>Fast data placement scheme for video server with zoned-disks</title>. , 1997, 3229, 92.		13
14	Unsupervised query-based learning of neural networks using selective-attention and self-regulation. IEEE Transactions on Neural Networks, 1997, 8, 205-217.	4.2	13
15	FOS: A Funnel-Based Approach for Optimal Online Traffic Smoothing of Live Video. IEEE Transactions on Multimedia, 2006, 8, 996-1004.	7.2	13
16	Gene clustering by using query-based self-organizing maps. Expert Systems With Applications, 2010, 37, 6689-6694.	7.6	13
17	UPHSM: Ubiquitous personal health surveillance and management system via WSN agent on open source smartphone. , 2011, , .		13
18	Developing a problem-solving learning system to assess the effects of different materials on learning performance and attitudes. Computers and Education, 2014, 77, 50-66.	8.3	12

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19	Cloud-Based Analytics Module for Predictive Maintenance of the Textile Manufacturing Process. Applied Sciences (Switzerland), 2021, 11, 9945.	2.5	12
20	GSR: A global seek-optimizing real-time disk-scheduling algorithm. Journal of Systems and Software, 2007, 80, 198-215.	4.5	10
21	A new spatial IP assignment method for IP-based wireless sensor networks. Personal and Ubiquitous Computing, 2012, 16, 913-928.	2.8	10
22	Force directed self-organizing map and its application to VLSI cell placement. , 0, , .		9
23	VLSI circuit placement with rectilinear modules using three-layer force-directed self-organizing maps. IEEE Transactions on Neural Networks, 1997, 8, 1049-1064.	4.2	9
24	<title>Optimization of stored VBR video transmission on a CBR channel</title>. , 1997, , .		9
25	Characterize the minimum required resources for admission control of pre-recorded VBR video transmission by an $O(n \log n)$ algorithm. , 0, , .		9
26	Real-Time Disk Scheduling for Multimedia Applications with Deadline-Modification-Scan Scheme. Real-Time Systems, 2000, 19, 149-168.	1.3	9
27	Recognizing Text Elements for SVG Comic Compression and Its Novel Applications. , 2011, , .		9
28	Lightweight spatial IP address configuration for IPv6-based wireless sensor networks in smart grid. , 2012, , .		9
29	A novel content based image retrieval system using K-means with feature extraction. , 2012, , .		9
30	From data to global generalized knowledge. Decision Support Systems, 2012, 52, 295-307.	5.9	9
31	A Priority Selected Cache Algorithm for Video Relay in Streaming Applications. IEEE Transactions on Broadcasting, 2007, 53, 79-91.	3.2	8
32	Error-Bounded Data Compression Using Data, Temporal and Spatial Correlations in Wireless Sensor Networks. , 2010, , .		8
33	Mining negative generalized knowledge from relational databases. Knowledge-Based Systems, 2011, 24, 134-145.	7.1	8
34	Particle swarm optimization with query-based learning for multi-objective power contract problem. Expert Systems With Applications, 2012, 39, 3116-3126.	7.6	8
35	Three-Dimensional Location-Based IPv6 Addressing for Wireless Sensor Networks in Smart Grid. , 2012, , .		7
36	Developing a dynamic inference expert system to support individual learning at work. British Journal of Educational Technology, 2015, 46, 1378-1391.	6.3	7

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37	Reschedulable-Group-SCAN scheme for mixed real-time/non-real-time disk scheduling in a multimedia system. <i>Journal of Systems and Software</i> , 2001, 59, 143-152.	4.5	6
38	Rate-sensitive ARQ for real-time video streaming. , 0, , .		6
39	Coupling GPU and MPTCP to improve Hadoop/MapReduce performance. , 2016, , .		6
40	A Fund Selection Robo-Advisor with Deep-learning Driven Market Prediction. , 2019, , .		6
41	Schedulable region for VBR media transmission with optimal resource allocation and utilization. <i>Information Sciences</i> , 2002, 141, 61-79.	6.9	5
42	An optimal cache algorithm for streaming VBR video over a heterogeneous network. <i>Computer Communications</i> , 2005, 28, 1852-1861.	5.1	5
43	Data demonstrations on physical oceanography and underwater acoustics from the MArine Cable Hosted Observatory (MACHO). , 2012, , .		5
44	Automatic appliance classification for non-intrusive load monitoring. , 2012, , .		5
45	Unsupervised Adaptive Non-intrusive Load Monitoring System. , 2013, , .		5
46	SOP: Smart offloading proxy service for wireless content uploading over crowd events. , 2015, , .		5
47	Query-Based-Learning Genetic Algorithm to Construct Mobile-Oriented Catalogs in M-Commerce. <i>IEEE Access</i> , 2017, 5, 7294-7304.	4.2	5
48	Design and implementation of a dynamic healthcare system for weight management and health promotion. , 2017, , .		5
49	Bounded-Error-Pruned Sensor Data Compression for Energy-Efficient IoT of Environmental Intelligence. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6512.	2.5	5
50	<i>OC</i>: AN OPTIMAL CACHE ALGORITHM FOR VIDEO STAGING. , 2002, , .		5
51	Reinforcement Learning Control for Six-Phase Permanent Magnet Synchronous Motor Position Servo Drive. , 2020, , .		5
52	Multimedia real-time disk scheduling by hybrid local/global seek-optimizing approaches. , 0, , .		4
53	An effective communication model for collaborative commerce of Web-based surveillance services. , 0, , .		4
54	Scan-Line IP Assignment for Wireless Sensor Networks. , 2009, , .		4

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55	Particle Swarm Optimization Combined with Query-Based Learning Using MapReduce. Lecture Notes in Electrical Engineering, 2014, , 91-97.	0.4	4
56	Optimal scheduling of QoE-aware HTTP adaptive streaming. , 2015, , .		4
57	Color gradient vectorization for SVG compression of comic image. Journal of Visual Communication and Image Representation, 2015, 33, 235-246.	2.8	4
58	Service-Oriented Architecture for Intelligent Management with Data Analytics and Visualization. , 2019, , .		4
59	An XML-Based Comic Image Compression. Lecture Notes in Computer Science, 2008, , 563-572.	1.3	4
60	Improving PM2.5 Concentration Forecast with the Identification of Temperature Inversion. Applied Sciences (Switzerland), 2022, 12, 71.	2.5	4
61	An effective approach to video staging in streaming applications. , 0, , .		3
62	Improving End-to-End Performance by Active Queue Management. , 0, , .		3
63	Detecting Network Intrusions Using Signal Processing with Query-Based Sampling Filter. Eurasip Journal on Advances in Signal Processing, 2008, 2009, .	1.7	3
64	Dynamic bounded-error data compression and aggregation in wireless sensor network. , 2012, , .		3
65	A Secure and Stable Multicast Overlay Network with Load Balancing for Scalable IPTV Services. International Journal of Digital Multimedia Broadcasting, 2012, 2012, 1-12.	0.6	3
66	Query-Based Machine Learning Model for Data Analysis of Infrasonic Signals in Wireless Sensor Networks. , 2018, , .		3
67	Blockchain for bounded-error-pruned content protection. ICT Express, 2021, 7, 295-299.	4.8	3
68	Disease Diagnosis Using Query-Based Neural Networks. Lecture Notes in Computer Science, 2005, , 767-773.	1.3	3
69	Mining Data by Query-Based Error-Propagation. Lecture Notes in Computer Science, 2005, , 1224-1233.	1.3	3
70	FontCloud: Web Font Service for Personal Handwritten, Ancient, and Unencoded Characters. Lecture Notes in Electrical Engineering, 2015, , 113-119.	0.4	3
71	Edge Computing of Online Bounded-Error Query for Energy-Efficient IoT Sensors. Sensors, 2022, 22, 4799.	3.8	3
72	Genetic algorithms for the module orientation problem. Electronics Letters, 1994, 30, 1199-1200.	1.0	2

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73	Multipoint-to-point communications for SHE surveillance with QoS and QoE management. Engineering Applications of Artificial Intelligence, 2012, 25, 1322-1330.	8.1	2
74	The design and implementation of a future Internet live TV system over 4G networks. Telecommunication Systems, 2013, 54, 203-214.	2.5	2
75	Font generation of personal handwritten Chinese characters. Proceedings of SPIE, 2014, , .	0.8	2
76	A cost-effective key distribution of P2P IPTV DRM over opportunistic multicast overlay for e-commerce systems. Electronic Commerce Research, 2015, 15, 49-71.	5.0	2
77	Scheduling of Optimal DASH Streaming. , 2016, , .		2
78	Context-Dependent Object Proposal and Recognition. Symmetry, 2020, 12, 1619.	2.2	2
79	Video-Like Lossless Compression of Data Cube for Big Data Query in Wireless Sensor Networks. WSEAS Transactions on Communications, 2021, 20, 139-145.	0.1	2
80	Collaborative Video Surveillance for Distributed Visual Data Mining of Potential Risk and Crime Detection. , 2011, , 194-204.		2
81	Aggressive Traffic Smoothing for Delivery of Online Multimedia. Lecture Notes in Computer Science, 2004, , 114-121.	1.3	2
82	Artificial texture generation using force directed self-organizing maps. , 1994, , .		1
83	Online traffic smoothing for delivery of variable bit rate media streams. Circuits, Systems, and Signal Processing, 2001, 20, 341-359.	2.0	1
84	PSC: a priority selected cache algorithm for streaming video over internet. , 0, , .		1
85	Cache-Aware Real-Time Disk Scheduling. Computer Journal, 2004, 47, 560-578.	2.4	1
86	A QoS Improvement for Voice over Mobile IPv4 (Mobile VoIPv4). , 2007, , .		1
87	Internet Search by Active Feedback. , 2007, , .		1
88	A Cost-Effective WiMAX Deployment for High-Quality Video Streaming of Live News Reporting. , 2009, , .		1
89	Video-Like Compression for High Efficiency Database Storage of Wireless Sensor Networks. , 2011, , .		1
90	Constructing mobile-oriented catalog in m-commerce using LDA-based self-adaptive genetic algorithm. , 2013, , .		1

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91	Concept of bounded error to improve wireless sensor network data compression. , 2014, , .		1
92	Distributed data query with dynamic bounded-error in wireless sensor networks. , 2014, , .		1
93	A Content-Based Knowledge and Data Intensive System for Archaeological Motif Recognition. , 2015, , .		1
94	Frame Dispatcher: A Multi-frame Classification System for Social Movement by Using Microblogging Data. , 2016, , .		1
95	The implementation of IoT for cloud system in industries-educational IoT case. , 2017, , .		1
96	Bounded Error Data Compression and Aggregation in Wireless Sensor Networks. , 2017, , 143-157.		1
97	Novel Data Protection for Bounded-Error IoT with Blockchain Smart Contract. , 2020, , .		1
98	Collaborative Video Surveillance for Distributed Visual Data Mining of Potential Risk and Crime Detection. , 2012, , 713-724.		1
99	Fast self-organization by query-based algorithm and its applications. , 0, , .		0
100	Rectangular VLSI cell placement using force directed self-organizing maps and delta learning rules. , 0, , .		0
101	Unsupervised query-based learning algorithm and its application to Kohonen's self-organizing maps. , 0, , .		0
102	Macro-Cell Placement for Custom-Chip Design Using Self-Organizing Fuzzy Technique. VLSI Design, 1998, 7, 385-399.	0.5	0
103	Dynamic window-based traffic-smoothing for optimal delivery of online VBR media streams. , 0, , .		0
104	An encryption scheme for large Chinese texts. , 0, , .		0
105	Assigning cryptographic keys to access control in a multi-attribute hierarchy. , 0, , .		0
106	An efficient anonymous scheme for computer and communication privacy. , 0, , .		0
107	An Efficient Anonymous Scheme for Mutual Anonymous Communications. Lecture Notes in Computer Science, 2005, , 835-843.	1.3	0
108	Priority-based R<sup>2</sup>/sup>CP for multipoint-to-point video streaming. , 2008, , .		0

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109	Cross-layer handoff via predictive multiple pre-registrations for QoS of mobile multimedia applications. , 2010, , .		0
110	Measuring the effectiveness of beacon location by Distribution-Adapted Grid measurement. , 2012, , .		0
111	Survey of software literacy, behavior and personal traits of freshmen accounting majors. British Journal of Educational Technology, 2015, 46, 1064-1069.	6.3	0
112	Subject-Keyphrase Extraction Based on Definition-Use Chain. , 2015, , .		0
113	Resource Delivery Service System for User Engagement Improvement. , 2017, , .		0
114	Rearrange Social Overloaded Posts to Prevent Social Overload. , 2017, , .		0
115	Investigating the influence of students' learning-style preferences on user intentions regarding illustration software. , 2019, , .		0
116	Constructing Suffix Array of Next-Generation Sequencing upon In-Memory Lookup Cloud and MapReduce. , 2019, , .		0
117	Real-Time Disk Scheduling for Multimedia Data Retrieval. , 2001, , 50-63.		0
118	Real-Time Disk Scheduling with On-Disk Cache Conscious. Lecture Notes in Computer Science, 2004, , 88-102.	1.3	0
119	Learning with Querying and its Application in Network Security. , 2012, , 371-388.		0
120	Weighted Pattern Matching Algorithm for Indoor Location of Wireless Sensor Networks. Sensor Letters, 2012, 10, 1168-1172.	0.4	0
121	Machine Learning for Texture Segmentation and Classification of Comic Image in SVG Compression. International Journal of Applied Metaheuristic Computing, 2017, 8, 37-52.	0.7	0
122	Investigation of the Effective Use of Ensemble Learning Algorithms for Cyber Data Analytics –The Prediction of the Customer Revenue on the Google Merchandise Store (GStore). , 2020, , .		0
123	A Graph Retrieval Architecture and System for Online Sign Language Dictionary- with an application to Taiwanese Sign Language. International Journal of Mathematics and Computers in Simulation, 2022, 16, 1-6.	0.2	0
124	Design and Implementation of an IoT Gateway for Zigbee and WiFi. WSEAS Transactions on Communications, 2022, 21, 225-229.	0.1	0