

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	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
2	Improving PM2.5 Concentration Forecast with the Identification of Temperature Inversion. Applied Sciences (Switzerland), 2022, 12, 71.	2.5	4
3	Edge Computing of Online Bounded-Error Query for Energy-Efficient IoT Sensors. Sensors, 2022, 22, 4799.	3.8	3
4	Design and Implementation of an IoT Gateway for Zigbee and WiFi. WSEAS Transactions on Communications, 2022, 21, 225-229.	0.1	0
5	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
6	Blockchain for bounded-error-pruned content protection. ICT Express, 2021, 7, 295-299.	4.8	3
7	Cloud-Based Analytics Module for Predictive Maintenance of the Textile Manufacturing Process. Applied Sciences (Switzerland), 2021, 11, 9945.	2.5	12
8	Bounded-Error-Pruned Sensor Data Compression for Energy-Efficient IoT of Environmental Intelligence. Applied Sciences (Switzerland), 2020, 10, 6512.	2.5	5
9	Context-Dependent Object Proposal and Recognition. Symmetry, 2020, 12, 1619.	2.2	2
10	Two-stage classification of tuberculosis culture diagnosis using convolutional neural network with transfer learning. Journal of Supercomputing, 2020, 76, 8641-8656.	3.6	26
11	Novel Data Protection for Bounded-Error IoT with Blockchain Smart Contract. , 2020, , .		1
12	Reinforcement Learning Control for Six-Phase Permanent Magnet Synchronous Motor Position Servo Drive. , 2020, , .		5
13	Investigation of the Effective Use of Ensemble Learning Algorithms for Cyber Data Analytics â€œThe Prediction of the Customer Revenue on the Google Merchandise Store (GStore). , 2020, , .		0
14	Investigating the influence of students' learning-style preferences on user intentions regarding illustration software. , 2019, , .		0
15	Constructing Suffix Array of Next-Generation Sequencing upon In-Memory Lookup Cloud and MapReduce. , 2019, , .		0
16	A Fund Selection Robo-Advisor with Deep-learning Driven Market Prediction. , 2019, , .		6
17	Service-Oriented Architecture for Intelligent Management with Data Analytics and Visualization. , 2019, , .		4
18	Query-Based Machine Learning Model for Data Analysis of Infrasonic Signals in Wireless Sensor Networks. , 2018, , .		3

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19	Query-Based-Learning Genetic Algorithm to Construct Mobile-Oriented Catalogs in M-Commerce. IEEE Access, 2017, 5, 7294-7304.	4.2	5
20	Query-Based Learning for Dynamic Particle Swarm Optimization. IEEE Access, 2017, 5, 7648-7658.	4.2	27
21	The implementation of IoT for cloud system in industries-educational IoT case. , 2017, , .		1
22	Design and implementation of a dynamic healthcare system for weight management and health promotion. , 2017, , .		5
23	Resource Delivery Service System for User Engagement Improvement. , 2017, , .		0
24	Bounded Error Data Compression and Aggregation in Wireless Sensor Networks. , 2017, , 143-157.		1
25	Rearrange Social Overloaded Posts to Prevent Social Overload. , 2017, , .		0
26	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
27	Frame Dispatcher: A Multi-frame Classification System for Social Movement by Using Microblogging Data. , 2016, , .		1
28	Scheduling of Optimal DASH Streaming. , 2016, , .		2
29	Coupling GPU and MPTCP to improve Hadoop/MapReduce performance. , 2016, , .		6
30	Hybrid learning style identification and developing adaptive problem-solving learning activities. Computers in Human Behavior, 2016, 55, 552-561.	8.5	46
31	Complete font generation of Chinese characters in personal handwriting style. , 2015, , .		22
32	Survey of software literacy, behavior and personal traits of freshmen accounting majors. British Journal of Educational Technology, 2015, 46, 1064-1069.	6.3	0
33	Developing a dynamic inference expert system to support individual learning at work. British Journal of Educational Technology, 2015, 46, 1378-1391.	6.3	7
34	Survey of learning experiences and influence of learning style preferences on user intentions regarding <sc>MOOC</sc>s. British Journal of Educational Technology, 2015, 46, 528-541.	6.3	74
35	A Content-Based Knowledge and Data Intensive System for Archaeological Motif Recognition. , 2015, , .		1
36	Subject-Keyphrase Extraction Based on Definition-Use Chain. , 2015, , .		0

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37	Optimal scheduling of QoE-aware HTTP adaptive streaming. , 2015, , .		4
38	Color gradient vectorization for SVG compression of comic image. Journal of Visual Communication and Image Representation, 2015, 33, 235-246.	2.8	4
39	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
40	SOP: Smart offloading proxy service for wireless content uploading over crowd events. , 2015, , .		5
41	FontCloud: Web Font Service for Personal Handwritten, Ancient, and Unencoded Characters. Lecture Notes in Electrical Engineering, 2015, , 113-119.	0.4	3
42	Particle Swarm Optimization Combined with Query-Based Learning Using MapReduce. Lecture Notes in Electrical Engineering, 2014, , 91-97.	0.4	4
43	Concept of bounded error to improve wireless sensor network data compression. , 2014, , .		1
44	Distributed data query with dynamic bounded-error in wireless sensor networks. , 2014, , .		1
45	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
46	Niched ant colony optimization with colony guides for QoS multicast routing. Journal of Network and Computer Applications, 2014, 40, 61-72.	9.1	26
47	Font generation of personal handwritten Chinese characters. Proceedings of SPIE, 2014, , .	0.8	2
48	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
49	The design and implementation of a future Internet live TV system over 4G networks. Telecommunication Systems, 2013, 54, 203-214.	2.5	2
50	Constructing mobile-oriented catalog in m-commerce using LDA-based self-adaptive genetic algorithm. , 2013, , .		1
51	Unsupervised Adaptive Non-intrusive Load Monitoring System. , 2013, , .		5
52	Lightweight spatial IP address configuration for IPv6-based wireless sensor networks in smart grid. , 2012, , .		9
53	Dynamic bounded-error data compression and aggregation in wireless sensor network. , 2012, , .		3
54	Measuring the effectiveness of beacon location by Distribution-Adapted Grid measurement. , 2012, , .		0

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55	A new spatial IP assignment method for IP-based wireless sensor networks. Personal and Ubiquitous Computing, 2012, 16, 913-928.	2.8	10
56	Data demonstrations on physical oceanography and underwater acoustics from the MARine Cable Hosted Observatory (MACHO). , 2012, , .		5
57	A novel content based image retrieval system using K-means with feature extraction. , 2012, , .		9
58	Automatic appliance classification for non-intrusive load monitoring. , 2012, , .		5
59	Multipoint-to-point communications for SHE surveillance with QoS and QoE management. Engineering Applications of Artificial Intelligence, 2012, 25, 1322-1330.	8.1	2
60	Three-Dimensional Location-Based IPv6 Addressing for Wireless Sensor Networks in Smart Grid. , 2012, , .		7
61	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
62	Effective distributed service architecture for ubiquitous video surveillance. Information Systems Frontiers, 2012, 14, 499-515.	6.4	17
63	From data to global generalized knowledge. Decision Support Systems, 2012, 52, 295-307.	5.9	9
64	Particle swarm optimization with query-based learning for multi-objective power contract problem. Expert Systems With Applications, 2012, 39, 3116-3126.	7.6	8
65	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
66	Collaborative Video Surveillance for Distributed Visual Data Mining of Potential Risk and Crime Detection. , 2012, , 713-724.		1
67	Learning with Querying and its Application in Network Security. , 2012, , 371-388.		0
68	Weighted Pattern Matching Algorithm for Indoor Location of Wireless Sensor Networks. Sensor Letters, 2012, 10, 1168-1172.	0.4	0
69	Video-Like Compression for High Efficiency Database Storage of Wireless Sensor Networks. , 2011, , .		1
70	Recognizing Text Elements for SVG Comic Compression and Its Novel Applications. , 2011, , .		9
71	UPHSM: Ubiquitous personal health surveillance and management system via WSN agent on open source smartphone. , 2011, , .		13
72	Mining negative generalized knowledge from relational databases. Knowledge-Based Systems, 2011, 24, 134-145.	7.1	8

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73	Collaborative Video Surveillance for Distributed Visual Data Mining of Potential Risk and Crime Detection. , 2011, , 194-204.		2
74	Gene clustering by using query-based self-organizing maps. Expert Systems With Applications, 2010, 37, 6689-6694.	7.6	13
75	Cross-layer handoff via predictive multiple pre-registrations for QoS of mobile multimedia applications. , 2010, , .		0
76	Error-Bounded Data Compression Using Data, Temporal and Spatial Correlations in Wireless Sensor Networks. , 2010, , .		8
77	Scan-Line IP Assignment for Wireless Sensor Networks. , 2009, , .		4
78	A Cost-Effective WiMAX Deployment for High-Quality Video Streaming of Live News Reporting. , 2009, , .		1
79	Priority-based R<sup>2</sup>/sup>CP for multipoint-to-point video streaming. , 2008, , .		0
80	Detecting Network Intrusions Using Signal Processing with Query-Based Sampling Filter. Eurasip Journal on Advances in Signal Processing, 2008, 2009, .	1.7	3
81	An XML-Based Comic Image Compression. Lecture Notes in Computer Science, 2008, , 563-572.	1.3	4
82	A QoS Improvement for Voice over Mobile IPv4 (Mobile VoIPv4). , 2007, , .		1
83	Internet Search by Active Feedback. , 2007, , .		1
84	A Priority Selected Cache Algorithm for Video Relay in Streaming Applications. IEEE Transactions on Broadcasting, 2007, 53, 79-91.	3.2	8
85	GSR: A global seek-optimizing real-time disk-scheduling algorithm. Journal of Systems and Software, 2007, 80, 198-215.	4.5	10
86	Intrusion Detection by Backpropagation Neural Networks with Sample-Query and Attribute-Query. International Journal of Computational Intelligence Research, 2007, 3, .	0.3	24
87	FOS: A Funnel-Based Approach for Optimal Online Traffic Smoothing of Live Video. IEEE Transactions on Multimedia, 2006, 8, 996-1004.	7.2	13
88	An optimal cache algorithm for streaming VBR video over a heterogeneous network. Computer Communications, 2005, 28, 1852-1861.	5.1	5
89	An Efficient Anonymous Scheme for Mutual Anonymous Communications. Lecture Notes in Computer Science, 2005, , 835-843.	1.3	0
90	Disease Diagnosis Using Query-Based Neural Networks. Lecture Notes in Computer Science, 2005, , 767-773.	1.3	3

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91	Mining Data by Query-Based Error-Propagation. Lecture Notes in Computer Science, 2005, , 1224-1233.	1.3	3
92	Cache-Aware Real-Time Disk Scheduling. Computer Journal, 2004, 47, 560-578.	2.4	1
93	Real-Time Disk Scheduling with On-Disk Cache Conscious. Lecture Notes in Computer Science, 2004, , 88-102.	1.3	0
94	Aggressive Traffic Smoothing for Delivery of Online Multimedia. Lecture Notes in Computer Science, 2004, , 114-121.	1.3	2
95	Schedulable region for VBR media transmission with optimal resource allocation and utilization. Information Sciences, 2002, 141, 61-79.	6.9	5
96	<i>OC</i>: AN OPTIMAL CACHE ALGORITHM FOR VIDEO STAGING. , 2002, , .		5
97	Online traffic smoothing for delivery of variable bit rate media streams. Circuits, Systems, and Signal Processing, 2001, 20, 341-359.	2.0	1
98	Reschedulable-Group-SCAN scheme for mixed real-time/non-real-time disk scheduling in a multimedia system. Journal of Systems and Software, 2001, 59, 143-152.	4.5	6
99	Real-Time Disk Scheduling for Multimedia Data Retrieval. , 2001, , 50-63.		0
100	Real-Time Disk Scheduling for Multimedia Applications with Deadline-Modification-Scan Scheme. Real-Time Systems, 2000, 19, 149-168.	1.3	9
101	An effective and efficient traffic smoothing scheme for delivery of online VBR media streams. , 1999, , .		16
102	Macro-Cell Placement for Custom-Chip Design Using Self-Organizing Fuzzy Technique. VLSI Design, 1998, 7, 385-399.	0.5	0
103	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
104	<title>Optimization of stored VBR video transmission on a CBR channel</title>. , 1997, , .		9
105	<title>Fast data placement scheme for video server with zoned-disks</title>. , 1997, 3229, 92.		13
106	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
107	Artificial texture generation using force directed self-organizing maps. , 1994, , .		1
108	Genetic algorithms for the module orientation problem. Electronics Letters, 1994, 30, 1199-1200.	1.0	2

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109	Force directed self-organizing map and its application to VLSI cell placement. , 0, , .		9
110	Fast self-organization by query-based algorithm and its applications. , 0, , .		0
111	Rectangular VLSI cell placement using force directed self-organizing maps and delta learning rules. , 0, , .		0
112	Unsupervised query-based learning algorithm and its application to Kohonen's self-organizing maps. , 0, , .		0
113	Designing the ON-OFF CBR transmission schedule for jitter-free VBR media playback in real-time networks. , 0, , .		15
114	Characterize the minimum required resources for admission control of pre-recorded VBR video transmission by an $O(n \log n)$ algorithm. , 0, , .		9
115	Dynamic window-based traffic-smoothing for optimal delivery of online VBR media streams. , 0, , .		0
116	Multimedia real-time disk scheduling by hybrid local/global seek-optimizing approaches. , 0, , .		4
117	An effective approach to video staging in streaming applications. , 0, , .		3
118	An encryption scheme for large Chinese texts. , 0, , .		0
119	An effective communication model for collaborative commerce of Web-based surveillance services. , 0, , .		4
120	PSC: a priority selected cache algorithm for streaming video over internet. , 0, , .		1
121	Assigning cryptographic keys to access control in a multi-attribute hierarchy. , 0, , .		0
122	Rate-sensitive ARQ for real-time video streaming. , 0, , .		6
123	An efficient anonymous scheme for computer and communication privacy. , 0, , .		0
124	Improving End-to-End Performance by Active Queue Management. , 0, , .		3