C S Lai

List of Publications by Year
in descending order

95 papers	3,333 citations	279798 23 h-index	149698 56 g-index
96 all docs	96 docs citations	96 times ranked	3989 citing authors

#	Article	IF	Citations
1	Data Mining for Internet of Things: A Survey. IEEE Communications Surveys and Tutorials, 2014, 16, 77-97.	39.4	504
2	A review of industrial wireless networks in the context of Industry 4.0. Wireless Networks, 2017, 23, 23-41.	3.0	391
3	Smart Clothing: Connecting Human with Clouds and Big Data for Sustainable Health Monitoring. Mobile Networks and Applications, 2016, 21, 825-845.	3.3	320
4	Cloud-enabled wireless body area networks for pervasive healthcare. IEEE Network, 2013, 27, 56-61.	6.9	251
5	Future Internet of Things: open issues and challenges. Wireless Networks, 2014, 20, 2201-2217.	3.0	214
6	An Efficient Centroid-Based Routing Protocol for Energy Management in WSN-Assisted IoT. IEEE Access, 2017, 5, 18469-18479.	4.2	162
7	Integration of SDR and SDN for 5G. IEEE Access, 2014, 2, 1196-1204.	4.2	128
8	Detection of Cognitive Injured Body Region Using Multiple Triaxial Accelerometers for Elderly Falling. IEEE Sensors Journal, 2011, 11, 763-770.	4.7	116
9	Opportunistic Task Scheduling over Co-Located Clouds in Mobile Environment. IEEE Transactions on Services Computing, 2018, 11, 549-561.	4.6	93
10	LSTM and Edge Computing for Big Data Feature Recognition of Industrial Electrical Equipment. IEEE Transactions on Industrial Informatics, 2019, 15, 2469-2477.	11.3	82
11	Multi-appliance recognition system with hybrid SVM/GMM classifier in ubiquitous smart home. Information Sciences, 2013, 230, 39-55.	6.9	76
12	Adaptive Body Posture Analysis for Elderly-Falling Detection with Multisensors. IEEE Intelligent Systems, 2010, 25, 20-30.	4.0	75
13	Survey on context-awareness in ubiquitous media. Multimedia Tools and Applications, 2013, 67, 179-211.	3.9	59
14	Q-learning based collaborative cache allocation in mobile edge computing. Future Generation Computer Systems, 2020, 102, 603-610.	7.5	49
15	Intelligent home-appliance recognition over IoT cloud network. , 2013, , .		43
16	Dynamic Resource Prediction and Allocation in C-RAN With Edge Artificial Intelligence. IEEE Transactions on Industrial Informatics, 2019, 15, 4306-4314.	11.3	43
17	DLNA-Based Multimedia Sharing System for OSGI Framework With Extension to P2P Network. IEEE Systems Journal, 2010, 4, 262-270.	4.6	39
18	A SDN-SFC-based service-oriented load balancing for the IoT applications. Journal of Network and Computer Applications, 2018, 114, 88-97.	9.1	34

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19	An Adaptive Mode Decision Algorithm Based on Video Texture Characteristics for HEVC Intra Prediction. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 1737-1748.	8.3	33
20	A Low-Latency Object Detection Algorithm for the Edge Devices of IoV Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 11169-11178.	6.3	32
21	Study on enhancing AIoT computational thinking skills by plot image-based VR. Interactive Learning Environments, 2021, 29, 482-495.	6.4	32
22	An energy-efficient geographic routing protocol design in vehicular ad-hoc network. Computing (Vienna/New York), 2014, 96, 119-131.	4.8	30
23	Effect of project-based learning on development of students' creative thinking. International Journal of Electrical Engineering and Education, 2022, 59, 232-250.	0.8	28
24	Dynamic adjustable multimedia streaming service architecture over cloud computing. Computer Communications, 2012, 35, 1798-1808.	5.1	26
25	Cognitive Optimal-Setting Control of AIoT Industrial Applications With Deep Reinforcement Learning. IEEE Transactions on Industrial Informatics, 2021, 17, 2116-2123.	11.3	26
26	Study of Virtual Reality Immersive Technology Enhanced Mathematics Geometry Learning. Frontiers in Psychology, 2022, 13, 760418.	2.1	23
27	3PRS: a personalized popular program recommendation system for digital TV for P2P social networks. Multimedia Tools and Applications, 2010, 47, 31-48.	3.9	21
28	A M-Learning Content Recommendation Service by Exploiting Mobile Social Interactions. IEEE Transactions on Learning Technologies, 2014, 7, 221-230.	3.2	21
29	Amnion overlay meshed skin autograft. Burns, 1985, 11, 374-378.	1.9	20
30	An Intercommunication Home Energy Management System with Appliance Recognition in Home Network. Mobile Networks and Applications, 2012, 17, 132-142.	3.3	20
31	Integration of IoT Energy Management System with Appliance and Activity Recognition. , 2012, , .		17
32	Hierarchical Trust Level Evaluation for Pervasive Social Networking. IEEE Access, 2017, 5, 1178-1187.	4.2	16
33	A survey on improving the wireless communication with adaptive antenna selection by intelligent method. Computer Communications, 2022, 181, 374-403.	5.1	16
34	Direction Density-Based Secure Routing Protocol for Healthcare Data in Incompletely Predictable Networks. IEEE Access, 2016, 4, 9163-9173.	4.2	15
35	Secure Storage Auditing With Efficient Key Updates for Cognitive Industrial IoT Environment. IEEE Transactions on Industrial Informatics, 2021, 17, 4238-4247.	11.3	15
36	Nighttime object detection system with lightweight deep network for internet of vehicles. Journal of Real-Time Image Processing, 2021, 18, 1141-1155.	3.5	14

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37	A QoS-aware streaming service over fog computing infrastructures. , 2016, , .		13
38	Physiological signals anticipatory computing for individual emotional state and creativity thinking. Computers in Human Behavior, 2019, 101, 450-456.	8.5	13
39	Playback-Rate Based Streaming Services for Maximum Network Capacity in IP Multimedia Subsystem. IEEE Systems Journal, 2011, 5, 555-563.	4.6	12
40	Intelligent Charging Path Planning for IoT Network Over Blockchain-Based Edge Architecture. IEEE Internet of Things Journal, 2021, 8, 2379-2394.	8.7	12
41	Applying Educational Data Mining to Explore Viewing Behaviors and Performance With Flipped Classrooms on the Social Media Platform Facebook. Frontiers in Psychology, 2021, 12, 653018.	2.1	12
42	Adaptive reconstruction of human motion on wireless body sensor networks. , 2011, , .		10
43	An Efficient Service Discovery System for Dual-Stack Cloud File Service. IEEE Systems Journal, 2012, 6, 584-592.	4.6	10
44	Fuzzy-Based Trustworthiness Evaluation Scheme for Privilege Management in Vehicular Ad Hoc Networks. IEEE Transactions on Fuzzy Systems, 2021, 29, 137-147.	9.8	10
45	A cloud-based intelligent TV program recommendation system. Computers and Electrical Engineering, 2013, 39, 2379-2399.	4.8	9
46	A fair scheduler using cloud computing for digital TV program recommendation system. Telecommunication Systems, 2015, 60, 55-66.	2.5	8
47	An Adaptive Sensor Data Segments Selection Method for Wearable Health Care Services. Journal of Medical Systems, 2015, 39, 194.	3.6	8
48	An Adaptive Energy-Efficient Stream Decoding System for Cloud Multimedia Network on Multicore Architectures. IEEE Systems Journal, 2014, 8, 194-201.	4.6	7
49	Applying big data analysis technique to students' learning behavior and learning resource recommendation in a MOOCs course. , 2017, , .		7
50	Cooperative Mobile Learning for the Investigation of Natural Science Courses in Elementary Schools. Sustainability, 2020, 12, 6606.	3.2	7
51	Mobile RFID with IPv6 for phone services. , 2009, , .		6
52	A portable UPnP-based high performance content sharing system for supporting multimedia devices. Journal of Supercomputing, 2011, 55, 269-283.	3.6	6
53	A SFC-based access point switching mechanism for Software-Defined Wireless Network in IoV. Future Generation Computer Systems, 2019, 98, 577-585.	7.5	6
54	Context-aware multimedia streaming service for smart home. , 2008, , .		5

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55	Reconfigurable software defined radio in 5g mobile communication systems [Guest editorial]. IEEE Wireless Communications, 2015, 22, 12-14.	9.0	5
56	Learning-Based Data Envelopment Analysis for External Cloud Resource Allocation. Mobile Networks and Applications, 2016, 21, 846-855.	3.3	5
57	Software-Defined Industrial Internet of Things. Wireless Communications and Mobile Computing, 2019, 2019, 1-2.	1.2	5
58	Applied Lightweight Parallel Multi-Appliance Recognition on Smart Meter. , 2012, , .		4
59	An Intelligent Body Posture Analysis Model Using Multi-Sensors for Long-Term Physical Rehabilitation. Journal of Medical Systems, 2017, 41, 71.	3.6	4
60	Inspect Road Quality by Using Anomaly Detection Approach. , 2018, , .		4
61	Deep Reinforcement Learning-Based Robot Exploration for Constructing Map of Unknown Environment. Information Systems Frontiers, 2024, 26, 63-74.	6.4	4
62	Exploring the factors of students' intention to participate in AI software development. Library Hi Tech, 2022, ahead-of-print, .	5.1	4
63	A low complexity TV remote controller with user individual behavior embedded. , 2007, , .		3
64	Design and integration of the OpenCore-based mobile TV framework for DVB-H/T wireless network. Multimedia Systems, 2011, 17, 299-311.	4.7	3
65	A sensor-based feet motion recognition of graphical user interface controls. Multimedia Tools and Applications, 2016, 75, 14125-14141.	3.9	3
66	A Resilient Power Fingerprinting Selection Mechanism of Device Load Recognition for Trusted Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2018, 14, 3581-3589.	11.3	3
67	To Cultivate Creativity and a Maker Mindset Through an Internet-of-Things Programming Course. Frontiers in Psychology, 2020, 11, 1572.	2.1	3
68	Implementation and evaluation of cloud-based e-learning in agricultural course. Interactive Learning Environments, 2023, 31, 908-923.	6.4	3
69	Multiple contents offloading mechanism in AI-enabled opportunistic networks. Computer Communications, 2020, 155, 93-103.	5.1	3
70	Effects of the Use of CDIO Engineering Design in a Flipped Programming Course on Flow Experience, Cognitive Load. Sustainability, 2021, 13, 1381.	3.2	3
71	The Influence of Affective Feedback Adaptive Learning System on Learning Engagement and Self-Directed Learning. Frontiers in Psychology, 2022, 13, 858411.	2.1	3
72	A Portable Universal Plug and Play Home System for Sharing Multimedia Contents. , 2009, , .		2

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73	Energy efficiency based on high performance particle swarm optimization: a case study. Telecommunication Systems, 2013, 52, 1293.	2.5	2
74	Optimized path selection mechanism for IEEE 802.16j Multi-Hop Relay networks. , 2012, , .		2
75	CAMSPF: Cloud-assisted mobile service provision framework supporting personalized user demands in pervasive computing environment. , 2013, , .		2
76	Cloud Based Data Protection in Anonymously Controlled SDN. Security and Communication Networks, 2018, 2018, 1-8.	1.5	2
77	Intelligent Power Charging Strategy in Wireless Rechargeable Sensor Network. , 2019, , .		2
78	Promising Framework of Ethernet Header Compression in Industrial Internet of Things. , 2019, , .		2
79	Scalable distributed control plane for On-line social networks support cognitive neural computing in software defined networks. Future Generation Computer Systems, 2019, 93, 993-1001.	7.5	2
80	Live MPEG-DASH video streaming cache management with cognitive mobile edge computing. Journal of Ambient Intelligence and Humanized Computing, 2020, , 1.	4.9	2
81	Note-Taking Learning System: The Use of the Learning Style Theory and the Peer Learning Method on Computer Programming Course. Journal of Educational Computing Research, 2021, 59, 870-895.	5.5	2
82	TVSkin: A Skin-able User Interface for Digital TV Systems. IEEE Transactions on Consumer Electronics, 2007, 53, 1776-1782.	3.6	1
83	A Lightweight Appliance Recognition Approach for Smart Grid. , 2013, , .		1
84	A Dynamic Power Features Selection Method for Multi-appliance Recognition on Cloud-Based Smart Grid. , 2014, , .		1
85	Power Load Forecasting Based on VMD and Attention-LSTM. , 2020, , .		1
86	P2P Multimedia Streaming Schedule for Maximum Network Capacity. , 2009, , .		0
87	Research on Body Sensor Networks in Cold Region. , 2011, , .		0
88	Parallel Dynamic Voltage and Frequency Scaling for stream decoding using a multicore embedded system. , 2011, , .		0
89	A TV program-oriented user generated content service with seamless video reconstruction ranking in cloud networks. , 2011, , .		0
90	Parallelization of DVFS-enabled H.264/AVC Decoder on Heterogeneous Multi-core Platform. , 2012, , .		0

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91	Establishment and Application for a Mobile Learning Communities System: A Case Study of Digital Archives Resource into Outdoor Environmental Education. , 2012, , .		0
92	A Self-Adaptive QoE Streaming Service Integrated on Cloud Mobile Network. , 2013, , .		0
93	Optimal Sink Placement in M2M over LTE Networks. , 2015, , .		0
94	Correlation between use time of machine and decline curve for emerging enterprise information systems. Enterprise Information Systems, 2018, 12, 452-470.	4.7	0
95	A Hybrid Biological Data Analysis Approach for Studentsâ€™ Learning Creative Characteristics Recognition. IEEE Access, 2019, 7, 134411-134421.	4.2	0