

# C S Lai

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Deep Reinforcement Learning-Based Robot Exploration for Constructing Map of Unknown Environment. Information Systems Frontiers, 2024, 26, 63-74.	6.4	4
2	Implementation and evaluation of cloud-based e-learning in agricultural course. Interactive Learning Environments, 2023, 31, 908-923.	6.4	3
3	Effect of project-based learning on development of students's creative thinking. International Journal of Electrical Engineering and Education, 2022, 59, 232-250.	0.8	28
4	A survey on improving the wireless communication with adaptive antenna selection by intelligent method. Computer Communications, 2022, 181, 374-403.	5.1	16
5	Study of Virtual Reality Immersive Technology Enhanced Mathematics Geometry Learning. Frontiers in Psychology, 2022, 13, 760418.	2.1	23
6	The Influence of Affective Feedback Adaptive Learning System on Learning Engagement and Self-Directed Learning. Frontiers in Psychology, 2022, 13, 858411.	2.1	3
7	Exploring the factors of students' intention to participate in AI software development. Library Hi Tech, 2022, ahead-of-print, .	5.1	4
8	Secure Storage Auditing With Efficient Key Updates for Cognitive Industrial IoT Environment. IEEE Transactions on Industrial Informatics, 2021, 17, 4238-4247.	11.3	15
9	Study on enhancing AIoT computational thinking skills by plot image-based VR. Interactive Learning Environments, 2021, 29, 482-495.	6.4	32
10	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
11	Intelligent Charging Path Planning for IoT Network Over Blockchain-Based Edge Architecture. IEEE Internet of Things Journal, 2021, 8, 2379-2394.	8.7	12
12	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
13	Cognitive Optimal-Setting Control of AIoT Industrial Applications With Deep Reinforcement Learning. IEEE Transactions on Industrial Informatics, 2021, 17, 2116-2123.	11.3	26
14	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
15	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
16	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
17	Q-learning based collaborative cache allocation in mobile edge computing. Future Generation Computer Systems, 2020, 102, 603-610.	7.5	49
18	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

#	ARTICLE	IF	CITATIONS
19	To Cultivate Creativity and a Maker Mindset Through an Internet-of-Things Programming Course. <i>Frontiers in Psychology</i> , 2020, 11, 1572.	2.1	3
20	Live MPEG-DASH video streaming cache management with cognitive mobile edge computing. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020, , 1.	4.9	2
21	Cooperative Mobile Learning for the Investigation of Natural Science Courses in Elementary Schools. <i>Sustainability</i> , 2020, 12, 6606.	3.2	7
22	Multiple contents offloading mechanism in AI-enabled opportunistic networks. <i>Computer Communications</i> , 2020, 155, 93-103.	5.1	3
23	Power Load Forecasting Based on VMD and Attention-LSTM. , 2020, , .		1
24	Physiological signals anticipatory computing for individual emotional state and creativity thinking. <i>Computers in Human Behavior</i> , 2019, 101, 450-456.	8.5	13
25	A Hybrid Biological Data Analysis Approach for Studentsâ€™ Learning Creative Characteristics Recognition. <i>IEEE Access</i> , 2019, 7, 134411-134421.	4.2	0
26	Software-Defined Industrial Internet of Things. <i>Wireless Communications and Mobile Computing</i> , 2019, 2019, 1-2.	1.2	5
27	Dynamic Resource Prediction and Allocation in C-RAN With Edge Artificial Intelligence. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 4306-4314.	11.3	43
28	A SFC-based access point switching mechanism for Software-Defined Wireless Network in IoV. <i>Future Generation Computer Systems</i> , 2019, 98, 577-585.	7.5	6
29	Intelligent Power Charging Strategy in Wireless Rechargeable Sensor Network. , 2019, , .		2
30	Promising Framework of Ethernet Header Compression in Industrial Internet of Things. , 2019, , .		2
31	LSTM and Edge Computing for Big Data Feature Recognition of Industrial Electrical Equipment. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 2469-2477.	11.3	82
32	Scalable distributed control plane for On-line social networks support cognitive neural computing in software defined networks. <i>Future Generation Computer Systems</i> , 2019, 93, 993-1001.	7.5	2
33	A Resilient Power Fingerprinting Selection Mechanism of Device Load Recognition for Trusted Industrial Internet of Things. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 3581-3589.	11.3	3
34	A SDN-SFC-based service-oriented load balancing for the IoT applications. <i>Journal of Network and Computer Applications</i> , 2018, 114, 88-97.	9.1	34
35	Opportunistic Task Scheduling over Co-Located Clouds in Mobile Environment. <i>IEEE Transactions on Services Computing</i> , 2018, 11, 549-561.	4.6	93
36	Correlation between use time of machine and decline curve for emerging enterprise information systems. <i>Enterprise Information Systems</i> , 2018, 12, 452-470.	4.7	0

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37	Inspect Road Quality by Using Anomaly Detection Approach. , 2018, , .		4
38	Cloud Based Data Protection in Anonymously Controlled SDN. Security and Communication Networks, 2018, 2018, 1-8.	1.5	2
39	A review of industrial wireless networks in the context of Industry 4.0. Wireless Networks, 2017, 23, 23-41.	3.0	391
40	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
41	Hierarchical Trust Level Evaluation for Pervasive Social Networking. IEEE Access, 2017, 5, 1178-1187.	4.2	16
42	An Intelligent Body Posture Analysis Model Using Multi-Sensors for Long-Term Physical Rehabilitation. Journal of Medical Systems, 2017, 41, 71.	3.6	4
43	An Efficient Centroid-Based Routing Protocol for Energy Management in WSN-Assisted IoT. IEEE Access, 2017, 5, 18469-18479.	4.2	162
44	Applying big data analysis technique to students' learning behavior and learning resource recommendation in a MOOCs course. , 2017, , .		7
45	Smart Clothing: Connecting Human with Clouds and Big Data for Sustainable Health Monitoring. Mobile Networks and Applications, 2016, 21, 825-845.	3.3	320
46	Direction Density-Based Secure Routing Protocol for Healthcare Data in Incompletely Predictable Networks. IEEE Access, 2016, 4, 9163-9173.	4.2	15
47	Learning-Based Data Envelopment Analysis for External Cloud Resource Allocation. Mobile Networks and Applications, 2016, 21, 846-855.	3.3	5
48	A QoS-aware streaming service over fog computing infrastructures. , 2016, , .		13
49	A sensor-based feet motion recognition of graphical user interface controls. Multimedia Tools and Applications, 2016, 75, 14125-14141.	3.9	3
50	Optimal Sink Placement in M2M over LTE Networks. , 2015, , .		0
51	Reconfigurable software defined radio in 5g mobile communication systems [Guest editorial]. IEEE Wireless Communications, 2015, 22, 12-14.	9.0	5
52	A fair scheduler using cloud computing for digital TV program recommendation system. Telecommunication Systems, 2015, 60, 55-66.	2.5	8
53	An Adaptive Sensor Data Segments Selection Method for Wearable Health Care Services. Journal of Medical Systems, 2015, 39, 194.	3.6	8
54	A Dynamic Power Features Selection Method for Multi-appliance Recognition on Cloud-Based Smart Grid. , 2014, , .		1

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55	An Adaptive Energy-Efficient Stream Decoding System for Cloud Multimedia Network on Multicore Architectures. IEEE Systems Journal, 2014, 8, 194-201.	4.6	7
56	An energy-efficient geographic routing protocol design in vehicular ad-hoc network. Computing (Vienna/New York), 2014, 96, 119-131.	4.8	30
57	A M-Learning Content Recommendation Service by Exploiting Mobile Social Interactions. IEEE Transactions on Learning Technologies, 2014, 7, 221-230.	3.2	21
58	Future Internet of Things: open issues and challenges. Wireless Networks, 2014, 20, 2201-2217.	3.0	214
59	Integration of SDR and SDN for 5G. IEEE Access, 2014, 2, 1196-1204.	4.2	128
60	Data Mining for Internet of Things: A Survey. IEEE Communications Surveys and Tutorials, 2014, 16, 77-97.	39.4	504
61	Energy efficiency based on high performance particle swarm optimization: a case study. Telecommunication Systems, 2013, 52, 1293.	2.5	2
62	Survey on context-awareness in ubiquitous media. Multimedia Tools and Applications, 2013, 67, 179-211.	3.9	59
63	Cloud-enabled wireless body area networks for pervasive healthcare. IEEE Network, 2013, 27, 56-61.	6.9	251
64	Intelligent home-appliance recognition over IoT cloud network. , 2013, , .		43
65	A Lightweight Appliance Recognition Approach for Smart Grid. , 2013, , .		1
66	Multi-appliance recognition system with hybrid SVM/GMM classifier in ubiquitous smart home. Information Sciences, 2013, 230, 39-55.	6.9	76
67	A cloud-based intelligent TV program recommendation system. Computers and Electrical Engineering, 2013, 39, 2379-2399.	4.8	9
68	CAMSPF: Cloud-assisted mobile service provision framework supporting personalized user demands in pervasive computing environment. , 2013, , .		2
69	A Self-Adaptive QoE Streaming Service Integrated on Cloud Mobile Network. , 2013, , .		0
70	Integration of IoT Energy Management System with Appliance and Activity Recognition. , 2012, , .		17
71	Parallelization of DVFS-enabled H.264/AVC Decoder on Heterogeneous Multi-core Platform. , 2012, , .		0
72	Optimized path selection mechanism for IEEE 802.16j Multi-Hop Relay networks. , 2012, , .		2

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73	Establishment and Application for a Mobile Learning Communities System: A Case Study of Digital Archives Resource into Outdoor Environmental Education. , 2012, , .		0
74	Dynamic adjustable multimedia streaming service architecture over cloud computing. Computer Communications, 2012, 35, 1798-1808.	5.1	26
75	An Efficient Service Discovery System for Dual-Stack Cloud File Service. IEEE Systems Journal, 2012, 6, 584-592.	4.6	10
76	Applied Lightweight Parallel Multi-Appliance Recognition on Smart Meter. , 2012, , .		4
77	An Intercommunication Home Energy Management System with Appliance Recognition in Home Network. Mobile Networks and Applications, 2012, 17, 132-142.	3.3	20
78	Detection of Cognitive Injured Body Region Using Multiple Triaxial Accelerometers for Elderly Falling. IEEE Sensors Journal, 2011, 11, 763-770.	4.7	116
79	Playback-Rate Based Streaming Services for Maximum Network Capacity in IP Multimedia Subsystem. IEEE Systems Journal, 2011, 5, 555-563.	4.6	12
80	A portable UPnP-based high performance content sharing system for supporting multimedia devices. Journal of Supercomputing, 2011, 55, 269-283.	3.6	6
81	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
82	Research on Body Sensor Networks in Cold Region. , 2011, , .		0
83	Parallel Dynamic Voltage and Frequency Scaling for stream decoding using a multicore embedded system. , 2011, , .		0
84	Adaptive reconstruction of human motion on wireless body sensor networks. , 2011, , .		10
85	A TV program-oriented user generated content service with seamless video reconstruction ranking in cloud networks. , 2011, , .		0
86	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
87	DLNA-Based Multimedia Sharing System for OSGI Framework With Extension to P2P Network. IEEE Systems Journal, 2010, 4, 262-270.	4.6	39
88	Adaptive Body Posture Analysis for Elderly-Falling Detection with Multisensors. IEEE Intelligent Systems, 2010, 25, 20-30.	4.0	75
89	Mobile RFID with IPv6 for phone services. , 2009, , .		6
90	P2P Multimedia Streaming Schedule for Maximum Network Capacity. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
91	A Portable Universal Plug and Play Home System for Sharing Multimedia Contents. , 2009, , .		2
92	Context-aware multimedia streaming service for smart home. , 2008, , .		5
93	A low complexity TV remote controller with user individual behavior embedded. , 2007, , .		3
94	TVSkin: A Skin-able User Interface for Digital TV Systems. IEEE Transactions on Consumer Electronics, 2007, 53, 1776-1782.	3.6	1
95	Amnion overlay meshed skin autograft. Burns, 1985, 11, 374-378.	1.9	20