Chakchai So-In

List of Publications by Year
in descending order

108 papers	1,965 citations	304743 22 h-index	315739 38 g-index
110 all docs	110 docs citations	110 times ranked	1483 citing authors

#	Article	IF	Citations
1	Scheduling in IEEE 802.16e mobile WiMAX networks: key issues and a survey. IEEE Journal on Selected Areas in Communications, 2009, 27, 156-171.	14.0	275
2	SeArch: A Collaborative and Intelligent NIDS Architecture for SDN-Based Cloud IoT Networks. IEEE Access, 2019, 7, 107678-107694.	4.2	87
3	A hybrid model using fuzzy logic and an extreme learning machine with vector particle swarm optimization for wireless sensor network localization. Applied Soft Computing Journal, 2018, 65, 101-120.	7.2	78
4	Averaged dependence estimators for DoS attack detection in IoT networks. Future Generation Computer Systems, 2020, 102, 198-209.	7.5	73
5	Capacity Evaluation for IEEE 802.16e Mobile WiMAX. Journal of Computer Systems, Networks, and Communications, 2010, 2010, 1-12.	1.2	62
6	MILSA: A New Evolutionary Architecture for Scalability, Mobility, and Multihoming in the Future Internet. IEEE Journal on Selected Areas in Communications, 2010, 28, 1344-1362.	14.0	49
7	System-level modeling of IEEE 802.16E mobile wimax networks: Key issues. IEEE Wireless Communications, 2008, 15, 73-79.	9.0	48
8	A hybrid localization model using node segmentation and improved particle swarm optimization with obstacle-awareness for wireless sensor networks. Expert Systems With Applications, 2020, 143, 113044.	7.6	48
9	Secrecy Performance Analysis of Energy Harvesting Wireless Sensor Networks With a Friendly Jammer. IEEE Access, 2017, 5, 25196-25206.	4.2	47
10	eOCSA: An algorithm for burst mapping with strict QoS requirements in IEEE 802.16e Mobile WiMAX networks. , 2009, , .		46
11	Secrecy Outage Performance Analysis for Energy Harvesting Sensor Networks With a Jammer Using Relay Selection Strategy. IEEE Access, 2018, 6, 23406-23419.	4.2	45
12	Modeling and resource allocation for mobile video over WiMAX broadband wireless networks. IEEE Journal on Selected Areas in Communications, 2010, 28, 354-365.	14.0	43
13	Fuzzy Weighted Centroid Localization With Virtual Node Approximation in Wireless Sensor Networks. IEEE Internet of Things Journal, 2018, 5, 4728-4752.	8.7	42
14	Efficient SDN-Based Traffic Monitoring in IoT Networks with Double Deep Q-Network. Lecture Notes in Computer Science, 2020, , 26-38.	1.3	41
15	Federated Deep Reinforcement Learning for Traffic Monitoring in SDN-Based IoT Networks. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 1048-1065.	7.9	39
16	A hybrid mobile environmental and population density management system for smart poultry farms. Computers and Electronics in Agriculture, 2014, 109, 287-301.	7.7	37
17	Soft computing-based localizations in wireless sensor networks. Pervasive and Mobile Computing, 2016, 29, 17-37.	3.3	37
18	Capacity estimation and TCP performance enhancement over mobile WiMAX networks. IEEE Communications Magazine, 2009, 47, 132-141.	6.1	32

#	Article	IF	Citations
19	A novel energy-efficient clustering protocol with area coverage awareness for wireless sensor networks. Peer-to-Peer Networking and Applications, 2017, 10, 519-536.	3.9	31
20	Two energy-efficient cluster head selection techniques based on distance for wireless sensor networks. , 2014, , .		28
21	Performance Analysis of DF/AF Cooperative MISO Wireless Sensor Networks With NOMA and SWIPT Over Nakagami-<inline-formula> <tex-math notation="LaTeX">m </tex-math> </inline-formula> Fading. IEEE Access, 2018, 6, 56142-56161.	4.2	27
22	Improved distance estimation with node selection localization and particle swarm optimization for obstacle-aware wireless sensor networks. Expert Systems With Applications, 2021, 175, 114773.	7.6	24
23	Distributed Image Compression Architecture over Wireless Multimedia Sensor Networks. Wireless Communications and Mobile Computing, 2017, 2017, 1-21.	1.2	23
24	Optimized Hop Angle Relativity for DV-Hop Localization in Wireless Sensor Networks. IEEE Access, 2018, 6, 78149-78172.	4.2	23
25	On Security and Throughput for Energy Harvesting Untrusted Relays in IoT Systems Using NOMA. IEEE Access, 2019, 7, 149341-149354.	4.2	22
26	An efficient coverage hole-healing algorithm for area-coverage improvements in mobile sensor networks. Peer-to-Peer Networking and Applications, 2019, 12, 541-552.	3.9	22
27	An enhanced wireless sensor network localization scheme for radio irregularity models using hybrid fuzzy deep extreme learning machines. Wireless Networks, 2018, 24, 799-819.	3.0	19
28	Histogram equalized deep PCA with ELM classification for expressive face recognition. , 2018, , .		19
29	An energy-efficient fuzzy-based scheme for unequal multihop clustering in wireless sensor networks. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 873-895.	4.9	19
30	An Explicit Rate Control Framework for Lossless Ethernet Operation. , 2008, , .		18
31	Secrecy Performance Analysis for Fixed-Gain Energy Harvesting in an Internet of Things With Untrusted Relays. IEEE Access, 2018, 6, 48247-48258.	4.2	18
32	OCSA: An algorithm for burst mapping in IEEE 802.16e mobile WiMAX networks. , 2009, , .		17
33	On the System Performance of Mobile Edge Computing in an Uplink NOMA WSN With a Multiantenna Access Point Over Nakagami-m Fading. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 668-685.	13.1	17
34	Distributed Deployment Algorithm for Barrier Coverage in Mobile Sensor Networks. IEEE Access, 2018, 6, 21042-21052.	4.2	16
35	Optimal System Performance in Multihop Energy Harvesting WSNs Using Cooperative NOMA and Friendly Jammers. IEEE Access, 2019, 7, 125494-125510.	4.2	16
36	An evaluation of data mining classification models for network intrusion detection. , 2014, , .		15

#	Article	IF	Citations
37	Congestion Control and Prediction Schemes Using Fuzzy Logic System with Adaptive Membership Function in Wireless Sensor Networks. Wireless Communications and Mobile Computing, 2018, 2018, 1-19.	1.2	15
38	Outage Performance Analysis of Energy Harvesting Wireless Sensor Networks for NOMA Transmissions. Mobile Networks and Applications, 2020, 25, 23-41.	3.3	15
39	System Performance Analysis for an Energy Harvesting IoT System Using a DF/AF UAV-Enabled Relay with Downlink NOMA under Nakagami-m Fading. Sensors, 2021, 21, 285.	3.8	15
40	Performance Analysis of an Energy-Harvesting IoT System Using a UAV Friendly Jammer and NOMA Under Cooperative Attack. IEEE Access, 2020, 8, 221986-222000.	4.2	15
41	Future wireless networks: key issues and a survey (ID/locator split perspective). International Journal of Communication Networks and Distributed Systems, 2012, 8, 24.	0.4	13
42	PEM-PCA: A Parallel Expectation-Maximization PCA Face Recognition Architecture. Scientific World Journal, The, 2014, 2014, 1-16.	2.1	13
43	A Scheduler for Unsolicited Grant Service (UGS) in IEEE 802.16e Mobile WiMAX Networks. IEEE Systems Journal, 2010, 4, 487-494.	4.6	12
44	A Novel IoT Authorization Architecture on Hyperledger Fabric With Optimal Consensus Using Genetic Algorithm. , 2018, , .		12
45	On Secure Wireless Sensor Networks With Cooperative Energy Harvesting Relaying. IEEE Access, 2019, 7, 139212-139225.	4.2	11
46	Fuzzy Logic-Based Path Planning for Data Gathering Mobile Sinks in WSNs. IEEE Access, 2021, 9, 96002-96020.	4.2	11
47	Enhanced Intrusion Detection System for an EH IoT Architecture Using a Cooperative UAV Relay and Friendly UAV Jammer. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 1786-1799.	13.1	11
48	Virtual ID: A Technique for Mobility, Multi-Homing, and Location Privacy in Next Generation Wireless Networks. , 2010, , .		10
49	A novel web caching scheme using hybrid least frequently used and support vector machine. , 2016, , .		10
50	Performance Analysis and Optimization for IoT Mobile Edge Computing Networks With RF Energy Harvesting and UAV Relaying. IEEE Access, 2022, 10, 21526-21540.	4.2	10
51	SAM: A Simplified Seasonal ARIMA Model for Mobile Video over Wireless Broadband Networks. , 2008, , .		9
52	A Deficit Round Robin with Fragmentation scheduler for IEEE 802.16e Mobile WiMAX. , 2009, , .		9
53	Generalized Weighted Fairness and its application for resource allocation in IEEE 802.16e Mobile WiMAX. , 2010, , .		9
54	Modeling and generation of AVC and SVC-TS mobile video traces for broadband access networks. , 2010, , .		9

#	ARTICLE	IF	CITATIONS
55	Mobile animal tracking systems using light sensor for efficient power and cost saving motion detection. , 2012, , .		9
56	Flood Warning and Management Schemes with Drone Emulator Using Ultrasonic and Image Processing. Advances in Intelligent Systems and Computing, 2015, , 107-116.	0.6	9
57	An Enhanced CoAP Scheme Using Fuzzy Logic With Adaptive Timeout for IoT Congestion Control. IEEE Access, 2021, 9, 58967-58981.	4.2	9
58	Development of an Internet-of-Healthcare System Using Blockchain. IEEE Access, 2021, 9, 113017-113031.	4.2	9
59	Dynamic resource allocation based on online traffic prediction for video streams. , 2010, , .		8
60	Physical Layer Security in Cognitive Radio Networks for IoT Using UAV With Reconfigurable Intelligent Surfaces. , 2021, , .		8
61	An enhanced obstacle-aware deployment scheme with an opposition-based competitive swarm optimizer for mobile WSNs. Expert Systems With Applications, 2022, 189, 116035.	7.6	8
62	PETS: Persistent TCP using simple freeze. , 2009, , .		7
63	Modeling and Prediction of High Defninition Video Traffic: A Real-World Case Study. , 2010, , .		7
64	PFP-PCA: Parallel Fixed Point PCA Face Recognition. , 2013, , .		7
65	Real-Time ECG Noise Reduction with QRS Complex Detection for Mobile Health Services. Arabian Journal for Science and Engineering, 2015, 40, 2503-2514.	1.1	7
66	Brain tumor cell recognition schemes using image processing with parallel ELM classifications on GPU. , 2016, , .		7
67	On Communication Performance in Energy Harvesting WSNs Under a Cooperative Jamming Attack. IEEE Systems Journal, 2020, 14, 4955-4966.	4.6	7
68	Resource Allocation in IEEE 802.16e MobileWiMAX. Wireless Networks and Mobile Communications, 2010, , 189-234.	1.0	7
69	A Novel Cloud Architecture for Internet of Space Things (IoST). IEEE Access, 2022, 10, 15118-15134.	4.2	7
70	A Novel Channel Model and Optimal Power Control Schemes for Mobile mmWave Two-Tier Networks. IEEE Access, 2022, 10, 54445-54458.	4.2	7
71	Statistical analysis and modeling of high definition video traces. , 2010, , .		6
72	Fuzzy logic rate adjustment controls using a circuit breaker for persistent congestion in wireless sensor networks. Wireless Networks, 2020, 26, 3603-3627.	3.0	6

#	Article	IF	Citations
73	Performance Analysis in UAV-enabled Relay with NOMA under Nakagami-m Fading Considering Adaptive Power Splitting. , 2021, , .		6
74	Hybrid Fuzzy Centroid with MDV-Hop BAT Localization Algorithms in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 2015, 1-18.	2.2	6
75	H-FCD: Hybrid Fuzzy Centroid and DV-Hop Localization Algorithm in Wireless Sensor Networks. , 2014, , .		5
76	A parallel probabilistic neural network ECG recognition architecture over GPU platforms. , 2016, , .		5
77	Enhanced DDoS Detection using Hybrid Genetic Algorithm and Decision Tree for SDN. , 2019, , .		5
78	Multistage fuzzy logic congestion-aware routing using dual-stage notification and the relative barring distance in wireless sensor networks. Wireless Networks, 2021, 27, 1287-1308.	3.0	5
79	Throughput analysis and optimization for NOMA Multi-UAV assisted disaster communication using CMA-ES. Wireless Networks, 2021, 27, 4889-4902.	3.0	5
80	An enhanced fuzzy-based clustering protocol with an improved shuffled frog leaping algorithm for WSNs. Expert Systems With Applications, 2022, 198, 116767.	7.6	5
81	Virtual ID: ID/locator split in a mobile IP environment for mobility, multihoming and location privacy for the next generation wireless networks. International Journal of Internet Protocol Technology, 2010, 5, 142.	0.2	4
82	A policy oriented multi-interface selection framework for mobile IPv6 using the ID/Locator Split concepts in the Next Generation Wireless Networks. , 2010, , .		4
83	An enhanced cluster head selection criterion of LEACH in wireless sensor networks. , 2016, , .		4
84	Fuzzy Adaptive-Sampling Block Compressed Sensing for Wireless Multimedia Sensor Networks. Sensors, 2020, 20, 6217.	3.8	4
85	An efficient distributed algorithm for target-coverage preservation in wireless sensor networks. Peer-to-Peer Networking and Applications, 2021, 14, 453-466.	3.9	4
86	Virtualization architecture using the ID/Locator split concept for Future Wireless Networks (FWNs). Computer Networks, 2011, 55, 415-430.	5.1	3
87	A new mobile phone system architecture for the navigational travelling blind. , 2012, , .		3
88	Weighted histogram equalized PEM-PCA face recognition. , 2014, , .		3
89	Maximum barrier coverage deployment algorithms in wireless sensor networks. , 2016, , .		3
90	Reliable Communication Performance for Energy Harvesting Wireless Sensor Networks. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
91	Secrecy Performance in the Internet of Things: Optimal Energy Harvesting Time Under Constraints of Sensors and Eavesdroppers. Mobile Networks and Applications, 2020, 25, 193-210.	3.3	3
92	New look on relay selection strategies for full-duplex multiple-relay NOMA over Nakagami-m fading channels. Wireless Networks, 2021, 27, 3827-3843.	3.0	3
93	P-PCC: Parallel Pearson Correlation Condition for Robust Cosmetic Makeup Face Recognitions. Lecture Notes in Electrical Engineering, 2015, , 259-266.	0.4	3
94	Android OS mobile monitoring systems using an efficient transmission technique over Tmote Sky WSNs. , 2012, , .		2
95	High-Definition Video Streams Analysis, Modeling, and Prediction. Advances in Multimedia, 2012, 2012, 1-13.	0.4	2
96	Using backpropagation neural networks for flood forecasting in PhraNakhon Si Ayutthaya, Thailand. , 2015, , .		2
97	SWIM: A Scheduler for Unsolicited Grant Service (UGS) in IEEE 802.16e Mobile WiMAX Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 40-51.	0.3	2
98	On Secrecy Analysis ofÂUAV-Enabled Relaying NOMA Systems withÂRF Energy Harvesting. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 267-281.	0.3	2
99	Web-based automatic network discovery/Map Systems. , 2011, , .		1
100	Brain Cancer Cell Detection Optimization Schemes Using Image Processing and Soft Computing. Lecture Notes in Electrical Engineering, 2016, , 171-182.	0.4	1
101	An energy-efficient point-coverage-aware clustering protocol in wireless sensor networks. International Journal of Ad Hoc and Ubiquitous Computing, 2018, 28, 148.	0.5	1
102	A Heuristic-Based Efficient Path Planning Scheme for Data Gathering WSNs Using Mobile Sinks. , 2021, , .		1
103	Deficit Round Robin with Fragmentation Scheduling to Achieve Generalized Weighted Fairness for Resource Allocation in IEEE 802.16e Mobile WiMAX Networks. Future Internet, 2010, 2, 446-468.	3.8	0
104	Ubiquitous bus mapping system on mobile phone via web architecture. , 2011, , .		0
105	An optimized genetic routing approach for constrained shortest path selections. , 2014, , .		0
106	Guest Editorial: Big Traffic Data Analysis and Mining. IET Intelligent Transport Systems, 2018, 12, 557-557.	3.0	0
107	JCSSE 2020 Breaker Page. , 2020, , .		0
108	Message from Technical Program Chair. , 2020, , .		0