

# Chakchai So-In

## List of Publications by Year in descending order

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108  
papers

1,965  
citations

304368

22  
h-index

315357

38  
g-index

110  
all docs

110  
docs citations

110  
times ranked

1483  
citing authors

#	ARTICLE	IF	CITATIONS
1	An enhanced obstacle-aware deployment scheme with an opposition-based competitive swarm optimizer for mobile WSNs. Expert Systems With Applications, 2022, 189, 116035.	4.4	8
2	A Novel Cloud Architecture for Internet of Space Things (IoST). IEEE Access, 2022, 10, 15118-15134.	2.6	7
3	Performance Analysis and Optimization for IoT Mobile Edge Computing Networks With RF Energy Harvesting and UAV Relaying. IEEE Access, 2022, 10, 21526-21540.	2.6	10
4	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.	8.5	17
5	An enhanced fuzzy-based clustering protocol with an improved shuffled frog leaping algorithm for WSNs. Expert Systems With Applications, 2022, 198, 116767.	4.4	5
6	A Novel Channel Model and Optimal Power Control Schemes for Mobile mmWave Two-Tier Networks. IEEE Access, 2022, 10, 54445-54458.	2.6	7
7	On Secrecy Analysis of UAV-Enabled Relaying NOMA Systems with RF Energy Harvesting. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 267-281.	0.2	2
8	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.	3.3	19
9	An efficient distributed algorithm for target-coverage preservation in wireless sensor networks. Peer-to-Peer Networking and Applications, 2021, 14, 453-466.	2.6	4
10	Federated Deep Reinforcement Learning for Traffic Monitoring in SDN-Based IoT Networks. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 1048-1065.	4.9	39
11	Fuzzy Logic-Based Path Planning for Data Gathering Mobile Sinks in WSNs. IEEE Access, 2021, 9, 96002-96020.	2.6	11
12	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.	2.0	5
13	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.	2.1	15
14	Physical Layer Security in Cognitive Radio Networks for IoT Using UAV With Reconfigurable Intelligent Surfaces. , 2021, , .		8
15	Performance Analysis in UAV-enabled Relay with NOMA under Nakagami- $m$ Fading Considering Adaptive Power Splitting. , 2021, , .		6
16	New look on relay selection strategies for full-duplex multiple-relay NOMA over Nakagami- $m$ fading channels. Wireless Networks, 2021, 27, 3827-3843.	2.0	3
17	Improved distance estimation with node selection localization and particle swarm optimization for obstacle-aware wireless sensor networks. Expert Systems With Applications, 2021, 175, 114773.	4.4	24
18	Throughput analysis and optimization for NOMA Multi-UAV assisted disaster communication using CMA-ES. Wireless Networks, 2021, 27, 4889-4902.	2.0	5

#	ARTICLE	IF	CITATIONS
19	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.	8.5	11
20	An Enhanced CoAP Scheme Using Fuzzy Logic With Adaptive Timeout for IoT Congestion Control. IEEE Access, 2021, 9, 58967-58981.	2.6	9
21	Development of an Internet-of-Healthcare System Using Blockchain. IEEE Access, 2021, 9, 113017-113031.	2.6	9
22	A Heuristic-Based Efficient Path Planning Scheme for Data Gathering WSNs Using Mobile Sinks. , 2021, , .		1
23	Outage Performance Analysis of Energy Harvesting Wireless Sensor Networks for NOMA Transmissions. Mobile Networks and Applications, 2020, 25, 23-41.	2.2	15
24	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.	2.2	3
25	Averaged dependence estimators for DoS attack detection in IoT networks. Future Generation Computer Systems, 2020, 102, 198-209.	4.9	73
26	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.	4.4	48
27	Fuzzy Adaptive-Sampling Block Compressed Sensing for Wireless Multimedia Sensor Networks. Sensors, 2020, 20, 6217.	2.1	4
28	JCSSE 2020 Breaker Page. , 2020, , .		0
29	Fuzzy logic rate adjustment controls using a circuit breaker for persistent congestion in wireless sensor networks. Wireless Networks, 2020, 26, 3603-3627.	2.0	6
30	On Communication Performance in Energy Harvesting WSNs Under a Cooperative Jamming Attack. IEEE Systems Journal, 2020, 14, 4955-4966.	2.9	7
31	Efficient SDN-Based Traffic Monitoring in IoT Networks with Double Deep Q-Network. Lecture Notes in Computer Science, 2020, , 26-38.	1.0	41
32	Performance Analysis of an Energy-Harvesting IoT System Using a UAV Friendly Jammer and NOMA Under Cooperative Attack. IEEE Access, 2020, 8, 221986-222000.	2.6	15
33	Message from Technical Program Chair. , 2020, , .		0
34	SeArch: A Collaborative and Intelligent NIDS Architecture for SDN-Based Cloud IoT Networks. IEEE Access, 2019, 7, 107678-107694.	2.6	87
35	On Security and Throughput for Energy Harvesting Untrusted Relays in IoT Systems Using NOMA. IEEE Access, 2019, 7, 149341-149354.	2.6	22
36	Enhanced DDoS Detection using Hybrid Genetic Algorithm and Decision Tree for SDN. , 2019, , .		5

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37	Reliable Communication Performance for Energy Harvesting Wireless Sensor Networks. , 2019, , .		3
38	On Secure Wireless Sensor Networks With Cooperative Energy Harvesting Relaying. IEEE Access, 2019, 7, 139212-139225.	2.6	11
39	Optimal System Performance in Multihop Energy Harvesting WSNs Using Cooperative NOMA and Friendly Jammers. IEEE Access, 2019, 7, 125494-125510.	2.6	16
40	An efficient coverage hole-healing algorithm for area-coverage improvements in mobile sensor networks. Peer-to-Peer Networking and Applications, 2019, 12, 541-552.	2.6	22
41	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.	4.1	78
42	Distributed Deployment Algorithm for Barrier Coverage in Mobile Sensor Networks. IEEE Access, 2018, 6, 21042-21052.	2.6	16
43	Fuzzy Weighted Centroid Localization With Virtual Node Approximation in Wireless Sensor Networks. IEEE Internet of Things Journal, 2018, 5, 4728-4752.	5.5	42
44	An enhanced wireless sensor network localization scheme for radio irregularity models using hybrid fuzzy deep extreme learning machines. Wireless Networks, 2018, 24, 799-819.	2.0	19
45	Optimized Hop Angle Relativity for DV-Hop Localization in Wireless Sensor Networks. IEEE Access, 2018, 6, 78149-78172.	2.6	23
46	An energy-efficient point-coverage-aware clustering protocol in wireless sensor networks. International Journal of Ad Hoc and Ubiquitous Computing, 2018, 28, 148.	0.3	1
47	A Novel IoT Authorization Architecture on Hyperledger Fabric With Optimal Consensus Using Genetic Algorithm. , 2018, , .		12
48	Performance Analysis of DF/AF Cooperative MISO Wireless Sensor Networks With NOMA and SWIPT Over Nakagami- $m$ Fading. IEEE Access, 2018, 6, 56142-56161.	2.6	27
49	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.	0.8	15
50	Guest Editorial: Big Traffic Data Analysis and Mining. IET Intelligent Transport Systems, 2018, 12, 557-557.	1.7	0
51	Secrecy Performance Analysis for Fixed-Gain Energy Harvesting in an Internet of Things With Untrusted Relays. IEEE Access, 2018, 6, 48247-48258.	2.6	18
52	Secrecy Outage Performance Analysis for Energy Harvesting Sensor Networks With a Jammer Using Relay Selection Strategy. IEEE Access, 2018, 6, 23406-23419.	2.6	45
53	Histogram equalized deep PCA with ELM classification for expressive face recognition. , 2018, , .		19
54	A novel energy-efficient clustering protocol with area coverage awareness for wireless sensor networks. Peer-to-Peer Networking and Applications, 2017, 10, 519-536.	2.6	31

#	ARTICLE	IF	CITATIONS
55	Secrecy Performance Analysis of Energy Harvesting Wireless Sensor Networks With a Friendly Jammer. IEEE Access, 2017, 5, 25196-25206.	2.6	47
56	Distributed Image Compression Architecture over Wireless Multimedia Sensor Networks. Wireless Communications and Mobile Computing, 2017, 2017, 1-21.	0.8	23
57	Maximum barrier coverage deployment algorithms in wireless sensor networks. , 2016, , .		3
58	A parallel probabilistic neural network ECG recognition architecture over GPU platforms. , 2016, , .		5
59	Brain tumor cell recognition schemes using image processing with parallel ELM classifications on GPU. , 2016, , .		7
60	A novel web caching scheme using hybrid least frequently used and support vector machine. , 2016, , .		10
61	An enhanced cluster head selection criterion of LEACH in wireless sensor networks. , 2016, , .		4
62	Brain Cancer Cell Detection Optimization Schemes Using Image Processing and Soft Computing. Lecture Notes in Electrical Engineering, 2016, , 171-182.	0.3	1
63	Soft computing-based localizations in wireless sensor networks. Pervasive and Mobile Computing, 2016, 29, 17-37.	2.1	37
64	Using backpropagation neural networks for flood forecasting in PhraNakhon Si Ayutthaya, Thailand. , 2015, , .		2
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	Flood Warning and Management Schemes with Drone Emulator Using Ultrasonic and Image Processing. Advances in Intelligent Systems and Computing, 2015, , 107-116.	0.5	9
67	P-PCC: Parallel Pearson Correlation Condition for Robust Cosmetic Makeup Face Recognitions. Lecture Notes in Electrical Engineering, 2015, , 259-266.	0.3	3
68	Hybrid Fuzzy Centroid with MDV-Hop BAT Localization Algorithms in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 2015, 1-18.	1.3	6
69	PEM-PCA: A Parallel Expectation-Maximization PCA Face Recognition Architecture. Scientific World Journal, The, 2014, 2014, 1-16.	0.8	13
70	Two energy-efficient cluster head selection techniques based on distance for wireless sensor networks. , 2014, , .		28
71	H-FCD: Hybrid Fuzzy Centroid and DV-Hop Localization Algorithm in Wireless Sensor Networks. , 2014, , .		5
72	Weighted histogram equalized PEM-PCA face recognition. , 2014, , .		3

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73	A hybrid mobile environmental and population density management system for smart poultry farms. Computers and Electronics in Agriculture, 2014, 109, 287-301.	3.7	37
74	An optimized genetic routing approach for constrained shortest path selections. , 2014, , .		0
75	An evaluation of data mining classification models for network intrusion detection. , 2014, , .		15
76	PPF-PCA: Parallel Fixed Point PCA Face Recognition. , 2013, , .		7
77	Future wireless networks: key issues and a survey (ID/locator split perspective). International Journal of Communication Networks and Distributed Systems, 2012, 8, 24.	0.3	13
78	Mobile animal tracking systems using light sensor for efficient power and cost saving motion detection. , 2012, , .		9
79	Android OS mobile monitoring systems using an efficient transmission technique over Tmote Sky WSNs. , 2012, , .		2
80	A new mobile phone system architecture for the navigational travelling blind. , 2012, , .		3
81	High-Definition Video Streams Analysis, Modeling, and Prediction. Advances in Multimedia, 2012, 2012, 1-13.	0.2	2
82	Web-based automatic network discovery/Map Systems. , 2011, , .		1
83	Ubiquitous bus mapping system on mobile phone via web architecture. , 2011, , .		0
84	Virtualization architecture using the ID/Locator split concept for Future Wireless Networks (FWNs). Computer Networks, 2011, 55, 415-430.	3.2	3
85	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
86	A Scheduler for Unsolicited Grant Service (UGS) in IEEE 802.16e Mobile WiMAX Networks. IEEE Systems Journal, 2010, 4, 487-494.	2.9	12
87	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.	2.4	0
88	Capacity Evaluation for IEEE 802.16e Mobile WiMAX. Journal of Computer Systems, Networks, and Communications, 2010, 2010, 1-12.	1.2	62
89	Generalized Weighted Fairness and its application for resource allocation in IEEE 802.16e Mobile WiMAX. , 2010, , .		9
90	Virtual ID: A Technique for Mobility, Multi-Homing, and Location Privacy in Next Generation Wireless Networks. , 2010, , .		10

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91	A policy oriented multi-interface selection framework for mobile IPv6 using the ID/Locator Split concepts in the Next Generation Wireless Networks. , 2010, , .		4
92	Modeling and generation of AVC and SVC-TS mobile video traces for broadband access networks. , 2010, , .		9
93	Modeling and resource allocation for mobile video over WiMAX broadband wireless networks. IEEE Journal on Selected Areas in Communications, 2010, 28, 354-365.	9.7	43
94	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.	9.7	49
95	Modeling and Prediction of High Definition Video Traffic: A Real-World Case Study. , 2010, , .		7
96	Dynamic resource allocation based on online traffic prediction for video streams. , 2010, , .		8
97	Statistical analysis and modeling of high definition video traces. , 2010, , .		6
98	Resource Allocation in IEEE 802.16e MobileWiMAX. Wireless Networks and Mobile Communications, 2010, , 189-234.	1.0	7
99	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.	0.2	2
100	OCSA: An algorithm for burst mapping in IEEE 802.16e mobile WiMAX networks. , 2009, , .		17
101	eOCSA: An algorithm for burst mapping with strict QoS requirements in IEEE 802.16e Mobile WiMAX networks. , 2009, , .		46
102	A Deficit Round Robin with Fragmentation scheduler for IEEE 802.16e Mobile WiMAX. , 2009, , .		9
103	PETS: Persistent TCP using simple freeze. , 2009, , .		7
104	Capacity estimation and TCP performance enhancement over mobile WiMAX networks. IEEE Communications Magazine, 2009, 47, 132-141.	4.9	32
105	Scheduling in IEEE 802.16e mobile WiMAX networks: key issues and a survey. IEEE Journal on Selected Areas in Communications, 2009, 27, 156-171.	9.7	275
106	System-level modeling of IEEE 802.16E mobile wimax networks: Key issues. IEEE Wireless Communications, 2008, 15, 73-79.	6.6	48
107	SAM: A Simplified Seasonal ARIMA Model for Mobile Video over Wireless Broadband Networks. , 2008, , .		9
108	An Explicit Rate Control Framework for Lossless Ethernet Operation. , 2008, , .		18