Sungrae Cho

List of Publications by Year
in descending order

129 papers	2,121 citations	304743 22 h-index	315739 38 g-index
129 all docs	129 docs citations	129 times ranked	2004 citing authors

#	ARTICLE	IF	CITATIONS
1	Intelligent Offloading and Resource Allocation in Heterogeneous Aerial Access IoT Networks. IEEE Internet of Things Journal, 2023, 10, 5704-5718.	8.7	26
2	Dynamic Resource Orchestration for Service Capability Maximization in Fog-Enabled Connected Vehicle Networks. IEEE Transactions on Cloud Computing, 2022, 10, 1726-1737.	4.4	10
3	Aerial Energy Orchestration for Heterogeneous UAV-Assisted Wireless Communications. IEEE Systems Journal, 2022, 16, 2483-2494.	4.6	12
4	Reinforcement-Learning-Based Spatial Resource Identification for IoT D2D Communications. IEEE Systems Journal, 2022, 16, 1068-1079.	4.6	0
5	User-Aware and Flexible Proactive Caching Using LSTM and Ensemble Learning in IoT-MEC Networks. IEEE Internet of Things Journal, 2022, 9, 3251-3269.	8.7	20
6	Securing Heterogeneous IoT With Intelligent DDoS Attack Behavior Learning. IEEE Systems Journal, 2022, 16, 1974-1983.	4.6	23
7	Delay Minimization for NOMA-Enabled Mobile Edge Computing in Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2022, 18, 7321-7331.	11.3	13
8	On System Stability in Multitier Roadside Computing Toward an Intelligent Transportation. IEEE Transactions on Network Science and Engineering, 2022, 9, 1128-1138.	6.4	0
9	Dynamic Time Division Duplexing for Green Internet of Things. , 2022, , .		1
10	MEC-Enhanced Aerial Serving Networks via HAP: A Deep Reinforcement Learning Approach. , 2022, , .		6
11	DRL-based Energy Efficient Communication Coverage Control in Hierarchical HAP-LAP Network. , 2022, , .		10
12	Adaptive Partial Offloading and Resource Harmonization in Wireless Edge Computing-Assisted IoE Networks. IEEE Transactions on Network Science and Engineering, 2022, 9, 3028-3044.	6.4	10
13	Achievable Rate Analysis of Two-Hop Interference Channel With Coordinated IRS Relay. IEEE Transactions on Wireless Communications, 2022, 21, 7055-7071.	9.2	12
14	Energy-Efficient Directional Charging Strategy for Wireless Rechargeable Sensor Networks. IEEE Internet of Things Journal, 2022, 9, 19034-19048.	8.7	10
15	A Contemporary Survey on Live Video Streaming from a Computation-Driven Perspective. ACM Computing Surveys, 2022, 54, 1-38.	23.0	17
16	HAMEC-RSMA: Enhanced Aerial Computing Systems With Rate Splitting Multiple Access. IEEE Access, 2022, 10, 52398-52409.	4.2	16
17	Adaptive bitrate streaming in multi-user downlink NOMA edge caching systems with imperfect SIC. Computer Networks, 2022, 212, 109064.	5.1	3
18	DQN based user association control in hierarchical mobile edge computing systems for mobile IoT services. Future Generation Computer Systems, 2022, 137, 53-69.	7.5	5

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19	Hit Ratio and Content Quality Tradeoff for Adaptive Bitrate Streaming in Edge Caching Systems. IEEE Systems Journal, 2021, 15, 5094-5097.	4.6	14
20	Energy-Efficient Spectrum Sensing for IoT Devices. IEEE Systems Journal, 2021, 15, 1077-1085.	4.6	16
21	Multiscale LSTM-Based Deep Learning for Very-Short-Term Photovoltaic Power Generation Forecasting in Smart City Energy Management. IEEE Systems Journal, 2021, 15, 346-354.	4.6	38
22	Hit Ratio and Latency Optimization for Caching Systems: A Survey. , 2021, , .		6
23	Vulnerabilities in Fog/Edge Computing from Architectural Perspectives. Advances in Information Security, 2021, , 193-212.	1.2	1
24	VCG Auction Mechanism based on Block Chain in Smart Grid. , 2021, , .		5
25	A Feasible Study of Cube Sensing Organization Map for Cognitive Spectrum Allocation. , 2021, , .		1
26	Survey on Aerial Radio Access Networks: Toward a Comprehensive 6G Access Infrastructure. IEEE Communications Surveys and Tutorials, 2021, 23, 1193-1225.	39.4	123
27	Night-Time Vehicle Distance Estimation Using Camera Geometry and Deep Learning. , 2021, , .		0
28	Deep Reinforcement Learning-Based Hierarchical Time Division Duplexing Control for Dense Wireless and Mobile Networks. IEEE Transactions on Wireless Communications, 2021, , 1-1.	9.2	6
29	Competitive Game Theoretic Clustering-Based Multiple UAV-Assisted NB-IoT Systems. Electronics (Switzerland), 2021, 10, 356.	3.1	4
30	Energy-Efficient and Delay-Minimizing Charging Method With a Multiple Directional Mobile Charger. IEEE Internet of Things Journal, 2021, 8, 8291-8303.	8.7	6
31	Partial Computation Offloading in NOMA-Assisted Mobile-Edge Computing Systems Using Deep Reinforcement Learning. IEEE Internet of Things Journal, 2021, 8, 13196-13208.	8.7	65
32	Deep Regression Model for Videos Popularity Prediction in Mobile Edge Caching Networks. , 2021, , .		9
33	Edge Caching for Content Sharing in Vehicular Networks: Technical Challenges, Existing Approaches, and Future Directions. , 2021, , .		2
34	BS Deployment Strategy and Energy Efficient BS Switching in Heterogeneous Networks for 5G. , 2021, , .		0
35	User-Preference-based Proactive Caching in Edge Networks. , 2021, , .		7
36	A Novel Algorithm for Estimating Fast-Moving Vehicle Speed in Intelligent Transport Systems. , 2021, , .		3

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37	Detachable Web-Based Learning Framework to Overcome Immature ICT Infrastructure Toward Smart Education. IEEE Access, 2021, 9, 34951-34961.	4.2	8
38	Reinforcement Learning-Based Resource Allocation for Streaming in a Multi-Modal Deep Space Network. , 2021, , .		1
39	Intelligent Offloading and Resource Allocation in HAP-Assisted MEC Networks. , 2021, , .		12
40	Endorsement Policy for Industrial Internet of Thing with Private Blockchain. , 2021, , .		1
41	Content Caching in HAP-Assisted Multi-UAV Networks Using Hierarchical Federated Learning. , 2021, , .		7
42	A novel network virtualization based on data analytics in connected environment. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 75-86.	4.9	9
43	Reliable broadcasting for safety services in dense infrastructureless peer-aware communications. Reliability Engineering and System Safety, 2020, 193, 106655.	8.9	4
44	Enhanced Anticancer Effect of Adding Magnesium to Vitamin C Therapy: Inhibition of HormeticâResponse by SVCT-2 Activation. Translational Oncology, 2020, 13, 401-409.	3.7	21
45	Prosumer Energy Management Considering Contract With Consumers Under Progressive Pricing Policy. IEEE Access, 2020, 8, 115789-115799.	4.2	8
46	Security and Privacy Challenges in Connected Vehicular Cloud Computing. IEEE Communications Surveys and Tutorials, 2020, 22, 2725-2764.	39.4	44
47	Dual-Channel-Based Mobile Ad Hoc Network Routing Technique for Indoor Disaster Environment. IEEE Access, 2020, 8, 126713-126724.	4.2	11
48	Optimal User Selection for High-Performance and Stabilized Energy-Efficient Federated Learning Platforms. Electronics (Switzerland), 2020, 9, 1359.	3.1	13
49	Bitrate Adaptation for Video Streaming Services in Edge Caching Systems. IEEE Access, 2020, 8, 135844-135852.	4.2	14
50	Trustful Resource Management for Service Allocation in Fog-Enabled Intelligent Transportation Systems. IEEE Access, 2020, 8, 147313-147322.	4.2	24
51	Simulation and measurement: Feasibility study of Tactile Internet applications for mmWave virtual reality. ETRI Journal, 2020, 42, 163-174.	2.0	12
52	On Stalling Minimization of Adaptive Bitrate Video Services in Edge Caching Systems. , 2020, , .		5
53	Energy-Efficient Adaptive Directional Queue-Stable Stochastic Scheduling for SWIPT in NOMA. , 2020, , .		0
54	3D UAV Placement and Trajectory Optimization in UAV Assisted Wireless Networks. , 2020, , .		29

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55	Routing in Flying Ad Hoc Networks: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 1071-1120.	39.4	202
56	Adaptive Real-Time Offloading Decision-Making for Mobile Edges: Deep Reinforcement Learning Framework and Simulation Results. Applied Sciences (Switzerland), 2020, 10, 1663.	2.5	9
57	Self-Calibrated Edge Computation for Unmodeled Time-Sensitive IoT Offloading Traffic. IEEE Access, 2020, 8, 110316-110323.	4.2	5
58	Mobile Cloudization Storytelling: Current Issues From an Optimization Perspective. IEEE Internet Computing, 2020, 24, 39-47.	3.3	13
59	Reinforcement Learning Based Interference Control Scheme in Heterogeneous Networks. , 2020, , .		2
60	Multiagent DDPG-Based Deep Learning for Smart Ocean Federated Learning IoT Networks. IEEE Internet of Things Journal, 2020, 7, 9895-9903.	8.7	67
61	Base Station Switching and Sleep Mode Optimization With LSTM-Based User Prediction. IEEE Access, 2020, 8, 222711-222723.	4.2	17
62	Delay-Sensitive Task Offloading for Internet of Things in Nonorthogonal Multiple Access MEC Networks. , 2020, , .		4
63	Throughput Maximization for Uplink IoT NOMA Systems with Efficient Resource Allocation. , 2020, , .		3
64	GPU-specific Task Offloading in the Mobile Edge Computing Network. , 2020, , .		3
65	Joint energy and latency optimization for upstream IoT offloading services in fog radio access networks. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3497.	3.9	15
66	Joint Geometric Unsupervised Learning and Truthful Auction for Local Energy Market. IEEE Transactions on Industrial Electronics, 2019, 66, 1499-1508.	7.9	33
67	IEEE 802.15.8: Infrastructureless Peer-Aware Communications with Fully Distributed Coordination. IEEE Communications Standards Magazine, 2019, 3, 40-47.	4.9	2
68	Two-Stage IoT Device Scheduling With Dynamic Programming for Energy Internet Systems. IEEE Internet of Things Journal, 2019, 6, 8782-8791.	8.7	7
69	Congestion control vs. link failure: TCP behavior in mmWave connected vehicular networks. Future Generation Computer Systems, 2019, 101, 1213-1222.	7.5	10
70	Overview of Distributed Federated Learning: Research Issues, Challenges, and Biomedical Applications. , 2019, , .		2
71	Construction Hazard Investigation Leveraging Object Anatomization on an Augmented Photoreality Platform. Applied Sciences (Switzerland), 2019, 9, 4477.	2.5	20
72	Two-Stage Computation Offloading Scheduling Algorithm for Energy-Harvesting Mobile Edge Computing. Energies, 2019, 12, 4367.	3.1	4

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73	Frequency Resource Allocation and Interference Management in Mobile Edge Computing for an Internet of Things System. IEEE Internet of Things Journal, 2019, 6, 4910-4920.	8.7	34
74	Resource-aware relay selection for inter-cell interference avoidance in 5G heterogeneous network for Internet of Things systems. Future Generation Computer Systems, 2019, 93, 877-887.	7.5	37
75	Energy-Efficient Mobile Charging for Wireless Power Transfer in Internet of Things Networks. IEEE Internet of Things Journal, 2018, 5, 79-92.	8.7	85
76	Light-Weight Stackelberg Game Theoretic Demand Response Scheme for Massive Smart Manufacturing Systems. IEEE Access, 2018, 6, 23316-23324.	4.2	10
77	Downlink sum-rate optimization leveraging hungarian method in fog radio access networks. , 2018, , .		10
78	MAEC-X: DDoS prevention leveraging multi-access edge computing. , 2018, , .		10
79	Internet of Things for Smart Manufacturing System: Trust Issues in Resource Allocation. IEEE Internet of Things Journal, 2018, 5, 4418-4427.	8.7	56
80	Centralized Cooperative Directional Spectrum Sensing for Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2018, 17, 1260-1274.	5.8	29
81	SGCO: Stabilized Green Crosshaul Orchestration for Dense IoT Offloading Services. IEEE Journal on Selected Areas in Communications, 2018, 36, 2538-2548.	14.0	34
82	Prefetched Asymmetric Authentication for Infrastructureless D2D Communications: Feasibility Study and Analysis. , 2018, , .		3
83	A Softwarized Paradigm for Mobile Virtual Networks: Overcoming a Lack of Access Infrastructure. IEEE Vehicular Technology Magazine, 2018, 13, 106-115.	3.4	3
84	Energy-Efficient Learning System Using Web-Based Panoramic Virtual Photoreality for Interactive Construction Safety Education. Sustainability, 2018, 10, 2262.	3.2	28
85	Appliance Type Constraint Design for Demand Response Smart Grid Systems. , 2018, , .		1
86	Pattern-Identified Online Task Scheduling in Multitier Edge Computing for Industrial IoT Services. Mobile Information Systems, 2018, 2018, 1-9.	0.6	16
87	On Virtual Emotion Barrier in Internet of Things. , 2018, , .		3
88	Blockchain Based Billing System for Electric Vehicle and Charging Station. , 2018, , .		27
89	Directional Link Scheduling for Real-Time Data Processing in Smart Manufacturing System. IEEE Internet of Things Journal, 2018, 5, 3661-3671.	8.7	17
90	Therapeutic effects of hyaluronidase on acquired lymphedema using a newly developed mouse limb model. Experimental Biology and Medicine, 2017, 242, 584-592.	2.4	17

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91	Residential Demand Response for Renewable Energy Resources in Smart Grid Systems. IEEE Transactions on Industrial Informatics, 2017, 13, 3165-3173.	11.3	94
92	Adaptive Resource Balancing for Serviceability Maximization in Fog Radio Access Networks. IEEE Access, 2017, 5, 14548-14559.	4.2	40
93	On collision-free reinforced barriers for multi domain IoT with heterogeneous UAVs. , 2017, , .		6
94	SDNbox: A portable open-source testbed for SDN study. , 2017, , .		0
95	Achievable Multi-Security Levels for Lightweight IoT-Enabled Devices in Infrastructureless Peer-Aware Communications. IEEE Access, 2017, 5, 26743-26753.	4.2	25
96	Hybrid authentication scheme in peer-aware communication. , 2017, , .		0
97	Multi-tier multi-access edge computing: The role for the fourth industrial revolution. , 2017, , .		38
98	Trend analyses of authentication in peer aware communication (PAC). , 2017, , .		4
99	Coexistence scheme of licensed-assisted access using long-term evolution and wireless local area network for wireless sensor networks. International Journal of Distributed Sensor Networks, 2017, 13, 155014771771681.	2.2	0
100	Automated Energy Scheduling Algorithms for Residential Demand Response Systems. Energies, 2017, 10, 1326.	3.1	20
101	Adaptive MCS selection and resource planning for energy-efficient communication in LTE-M based IoT sensing platform. PLoS ONE, 2017, 12, e0182527.	2.5	15
102	Glutathione alleviated peripheral neuropathy in oxaliplatin-treated mice by removing aluminum from dorsal root ganglia. American Journal of Translational Research (discontinued), 2017, 9, 926-939.	0.0	13
103	CoR-MAC: Contention over Reservation MAC Protocol for Time-Critical Services in Wireless Body Area Sensor Networks. Sensors, 2016, 16, 656.	3.8	24
104	Gyro Drift Correction for An Indirect Kalman Filter Based Sensor Fusion Driver. Sensors, 2016, 16, 864.	3.8	13
105	Mitigating wifi interference to improve throughput for in-vehicle infotainment networks. IEEE Wireless Communications, 2016, 23, 22-28.	9.0	22
106	Using social Internet of Things (SIoT) demand side management on the plant. , 2016, , .		3
107	Optimization of ISM Band interference coordination between WLAN and IEEE 802.15.4 using NAV on PAN Coordinator. , 2016, , .		2
108	Proteomic profiling of lymphedema development in mouse model. Cell Biochemistry and Function, 2016, 34, 317-325.	2.9	3

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109	Adaptive Suspicious Prevention for Defending DoS Attacks in SDN-Based Convergent Networks. PLoS ONE, 2016, 11, e0160375.	2.5	27
110	Preventive Activity against Influenza (H1N1) Virus by Intranasally Delivered RNA-Hydrolyzing Antibody in Respiratory Epithelial Cells of Mice. Viruses, 2015, 7, 5133-5144.	3.3	11
111	Trend and challenges of the diffusion-based molecular communication for nanonetworks. , 2015, , .		1
112	*Tomato yellow leaf curl virus* Can Overwinter in *Stellaria aquatica*, a Winter-Hardy TYLCV-Reservoir Weed. Plant Disease, 2015, 99, 588-592.	1.4	12
113	A feasible method to combat against DDoS attack in SDN network. , 2015, , .		15
114	Deafness-aware MAC protocol for directional antennas in wireless ad hoc networks. Ad Hoc Networks, 2015, 24, 121-134.	5.5	26
115	Reliable Multicasting Service for Densely Deployed Military Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 11, 341912.	2.2	11
116	Fully Distributed Multicast Routing Protocol for IEEE 802.15.8 Peer-Aware Communication. International Journal of Distributed Sensor Networks, 2015, 11, 531710.	2.2	7
117	Energy-Efficient Reliable Broadcast Protocol for WSNs Based on IEEE 802.15.5. International Journal of Distributed Sensor Networks, 2014, 10, 501534.	2.2	3
118	RETE-ADH: An Improvement to RETE for Composite Context-Aware Service. International Journal of Distributed Sensor Networks, 2014, 10, 507160.	2.2	3
119	User-friendly demand side management for smart grid networks. , 2014, , .		9
120	Fully-distributed multicast routing protocol for IEEE 802.15.8 peer-aware communications. , 2014, , .		1
121	SPARM: Spatially Pipelined ACK Aggregation for Reliable Multicast in Directional MAC. IEEE Communications Letters, 2013, 17, 596-599.	4.1	3
122	Deafness-aware MAC protocol for directional antennas. , 2013, , .		2
123	Reliable Broadcast Scheme for IEEE 802.15.5 Low-Rate WPAN Mesh Networks. IEICE Transactions on Communications, 2012, E95.B, 2700-2707.	0.7	4
124	Device mobility management in content-centric networking. , 2012, 50, 28-34.		96
125	BTRB: Beam Table-Based Reliable Broadcast for Directional Antennas. IEICE Transactions on Communications, 2012, E95.B, 3307-3311.	0.7	1
126	Complex context information for video streaming service. , 2011, , .		1

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127	Event detection in composite context aware-service. , 2011, , .		2
128	Log-Based Admission Control Scheme for Dynamic Spectrum Access Networks. IEICE Transactions on Communications, 2011, E94-B, 2933-2936.	0.7	1
129	Channel allocation scheme for cognitive radio systems. , 2010, , .		2