Joongheon Kim

List of Publications by Year
in descending order

147 papers	2,599 citations	257357 24 h-index	265120 42 g-index
148 all docs	148 docs citations	148 times ranked	2012 citing authors

#	Article	IF	Citations
1	Quality-Aware Streaming and Scheduling for Device-to-Device Video Delivery. IEEE/ACM Transactions on Networking, 2016, 24, 2319-2331.	2.6	138
2	Cooperative Management for PV/ESS-Enabled Electric Vehicle Charging Stations: A Multiagent Deep Reinforcement Learning Approach. IEEE Transactions on Industrial Informatics, 2020, 16, 3493-3503.	7.2	114
3	Fast millimeter-wave beam training with receive beamforming. Journal of Communications and Networks, 2014, 16, 512-522.	1.8	101
4	Communication-Efficient and Distributed Learning Over Wireless Networks: Principles and Applications. Proceedings of the IEEE, 2021, 109, 796-819.	16.4	100
5	Auction-Based Charging Scheduling With Deep Learning Framework for Multi-Drone Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 4235-4248.	3.9	96
6	Residential Demand Response for Renewable Energy Resources in Smart Grid Systems. IEEE Transactions on Industrial Informatics, 2017, 13, 3165-3173.	7.2	94
7	Energy-Efficient Mobile Charging for Wireless Power Transfer in Internet of Things Networks. IEEE Internet of Things Journal, 2018, 5, 79-92.	5.5	85
8	Toward Characterizing Blockchain-Based Cryptocurrencies for Highly Accurate Predictions. IEEE Systems Journal, 2020, 14, 321-332.	2.9	78
9	Multiagent DDPG-Based Deep Learning for Smart Ocean Federated Learning IoT Networks. IEEE Internet of Things Journal, 2020, 7, 9895-9903.	5.5	67
10	Wireless Video Caching and Dynamic Streaming Under Differentiated Quality Requirements. IEEE Journal on Selected Areas in Communications, 2018, 36, 1245-1257.	9.7	61
11	Quality of video streaming in 38 GHz millimetre‐wave heterogeneous cellular networks. Electronics Letters, 2014, 50, 1526-1528.	0.5	59
12	Cooperative Multiagent Deep Reinforcement Learning for Reliable Surveillance via Autonomous Multi-UAV Control. IEEE Transactions on Industrial Informatics, 2022, 18, 7086-7096.	7.2	51
13	Orchestrated Scheduling and Multi-Agent Deep Reinforcement Learning for Cloud-Assisted Multi-UAV Charging Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 5362-5377.	3.9	50
14	Joint Scalable Coding and Routing for 60 GHz Real-Time Live HD Video Streaming Applications. IEEE Transactions on Broadcasting, 2013, 59, 500-512.	2.5	48
15	A Tutorial on Quantum Convolutional Neural Networks (QCNN). , 2020, , .		47
16	Adaptive Resource Balancing for Serviceability Maximization in Fog Radio Access Networks. IEEE Access, 2017, 5, 14548-14559.	2.6	40
17	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.	2.9	38
18	Distributed deep reinforcement learning for autonomous aerial eVTOL mobility in drone taxi applications. ICT Express, 2021, 7, 1-4.	3.3	38

#	ARTICLE	IF	CITATIONS
19	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.	4.9	37
20	Seamless Dynamic Adaptive Streaming in LTE/Wi-Fi Integrated Network under Smartphone Resource Constraints. IEEE Transactions on Mobile Computing, 2019, 18, 1647-1660.	3.9	35
21	Markov Decision Policies for Dynamic Video Delivery in Wireless Caching Networks. IEEE Transactions on Wireless Communications, 2019, 18, 5705-5718.	6.1	35
22	SGCO: Stabilized Green Crosshaul Orchestration for Dense IoT Offloading Services. IEEE Journal on Selected Areas in Communications, 2018, 36, 2538-2548.	9.7	34
23	Joint Geometric Unsupervised Learning and Truthful Auction for Local Energy Market. IEEE Transactions on Industrial Electronics, 2019, 66, 1499-1508.	5.2	33
24	Dynamic Power Allocation and User Scheduling for Power-Efficient and Delay-Constrained Multiple Access Networks. IEEE Transactions on Wireless Communications, 2019, 18, 4846-4858.	6.1	30
25	Quantum Neural Networks: Concepts, Applications, and Challenges. , 2021, , .		28
26	Stochastic Decision Making for Adaptive Crowdsourcing in Medical Big-Data Platforms. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 1471-1476.	5.9	27
27	Adaptive Suspicious Prevention for Defending DoS Attacks in SDN-Based Convergent Networks. PLoS ONE, 2016, 11, e0160375.	1.1	27
28	Quality-aware millimeter-wave device-to-device multi-hop routing for 5G cellular networks. , 2014, , .		26
29	A Tutorial on Quantum Approximate Optimization Algorithm (QAOA): Fundamentals and Applications. , 2019, , .		26
30	REQUEST. , 2017, , .		25
31	Securing Heterogeneous IoT With Intelligent DDoS Attack Behavior Learning. IEEE Systems Journal, 2022, 16, 1974-1983.	2.9	23
32	Performance of deep learning computation with TensorFlow software library in GPU-capable multi-core computing platforms. , 2017, , .		21
33	New Challenges of Wireless Power Transfer and Secured Billing for Internet of Electric Vehicles. IEEE Communications Magazine, 2019, 57, 118-124.	4.9	21
34	The Useful Quantum Computing Techniques for Artificial Intelligence Engineers. , 2020, , .		21
35	Performance of Video Streaming in Infrastructure-to-Vehicle Telematic Platforms With 60-GHz Radiation and IEEE 802.11ad Baseband. IEEE Transactions on Vehicular Technology, 2016, 65, 10111-10115.	3.9	20
36	Quantum Approximation for Wireless Scheduling. Applied Sciences (Switzerland), 2020, 10, 7116.	1.3	20

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37	Privacy-Sensitive Parallel Split Learning. , 2020, , .		20
38	Intelligent Active Queue Management for Stabilized QoS Guarantees in 5G Mobile Networks. IEEE Systems Journal, 2021, 15, 4293-4302.	2.9	20
39	Introduction to Quantum Reinforcement Learning: Theory and PennyLane-based Implementation. , 2021, , .		20
40	Enabling Gigabit services for IEEE 802.11ad-capable high-speed train networks. , 2013, , .		18
41	Numerical Simulation Study for Frequency Sharing Between Micro-Cellular Systems and Fixed Service Systems in Millimeter-Wave Bands. IEEE Access, 2016, 4, 9847-9859.	2.6	18
42	Joint Distributed Link Scheduling and Power Allocation for Content Delivery in Wireless Caching Networks. IEEE Transactions on Wireless Communications, 2020, 19, 7810-7824.	6.1	18
43	Joint optimization of HD video coding rates and unicast flow control for IEEE 802.11ad relaying. , 2011, , .		17
44	A Personalized Preference Learning Framework for Caching in Mobile Networks. IEEE Transactions on Mobile Computing, 2021, 20, 2124-2139.	3.9	17
45	Quality-aware coding and relaying for 60 GHz real-time wireless video broadcasting. , 2013, , .		16
46	Feasibility Study of 60 GHz Millimeter-Wave Technologies for Hyperconnected Fog Computing Applications. IEEE Internet of Things Journal, 2017, 4, 1165-1173.	5.5	16
47	Large-Scale Water Quality Prediction Using Federated Sensing and Learning: A Case Study with Real-World Sensing Big-Data. Sensors, 2021, 21, 1462.	2.1	16
48	Attention-based Reinforcement Learning for Real-Time UAV Semantic Communication. , 2021, , .		16
49	Adaptive MCS selection and resource planning for energy-efficient communication in LTE-M based IoT sensing platform. PLoS ONE, 2017, 12, e0182527.	1.1	15
50	Bitcoin Price Forecasting via Ensemble-based LSTM Deep Learning Networks. , 2021, , .		15
51	Feasibility study of multi-site split learning for privacy-preserving medical systems under data imbalance constraints in COVID-19, X-ray, and cholesterol dataset. Scientific Reports, 2022, 12, 1534.	1.6	15
52	ShmCaffe: A Distributed Deep Learning Platform with Shared Memory Buffer for HPC Architecture. , 2018, , .		14
53	Probabilistic Caching and Dynamic Delivery Policies for Categorized Contents and Consecutive User Demands. IEEE Transactions on Wireless Communications, 2021, 20, 2685-2699.	6.1	14
54	Privacy-Preserving Deep Learning Computation for Geo-Distributed Medical Big-Data Platforms. , 2019, , .		13

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55	Blind Signal Classification for Non-Orthogonal Multiple Access in Vehicular Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 9722-9734.	3.9	13
56	Optimal User Selection for High-Performance and Stabilized Energy-Efficient Federated Learning Platforms. Electronics (Switzerland), 2020, 9, 1359.	1.8	13
57	Joint Message-Passing and Convex Optimization Framework for Energy-Efficient Surveillance UAV Scheduling. Electronics (Switzerland), 2020, 9, 1475.	1.8	13
58	Multi-Behavior with Bottleneck Features LSTM for Load Forecasting in Building Energy Management System. Electronics (Switzerland), 2021, 10, 1026.	1.8	13
59	Infrastructure-Assisted On-Driving Experience Sharing for Millimeter-Wave Connected Vehicles. IEEE Transactions on Vehicular Technology, 2021, 70, 7307-7321.	3.9	13
60	Soft Memory Box: A Virtual Shared Memory Framework for Fast Deep Neural Network Training in Distributed High Performance Computing. IEEE Access, 2018, 6, 26493-26504.	2.6	12
61	Energy-Efficient Cluster Head Selection via Quantum Approximate Optimization. Electronics (Switzerland), 2020, 9, 1669.	1.8	12
62	Simulation and measurement: Feasibility study of Tactile Internet applications for mmWave virtual reality. ETRI Journal, 2020, 42, 163-174.	1.2	12
63	Spatio-Temporal Split Learning for Privacy-Preserving Medical Platforms: Case Studies With COVID-19 CT, X-Ray, and Cholesterol Data. IEEE Access, 2021, 9, 121046-121059.	2.6	12
64	LiteZKP: Lightening Zero-Knowledge Proof-Based Blockchains for IoT and Edge Platforms. IEEE Systems Journal, 2022, 16, 112-123.	2.9	12
65	Quality-Aware Deep Reinforcement Learning for Streaming in Infrastructure-Assisted Connected Vehicles. IEEE Transactions on Vehicular Technology, 2022, 71, 2002-2017.	3.9	12
66	Joint Mobile Charging and Coverage-Time Extension for Unmanned Aerial Vehicles. IEEE Access, 2021, 9, 94053-94063.	2.6	11
67	Quantum Convolutional Neural Network for Resource-Efficient Image Classification: A Quantum Random Access Memory (QRAM) Approach. , 2021, , .		10
68	Trends in Blockchain and Federated Learning for Data Sharing in Distributed Platforms. , 2021, , .		10
69	Error concealment mode signaling for robust mobile video transmission. AEU - International Journal of Electronics and Communications, 2015, 69, 1070-1073.	1.7	9
70	Strategic Control of 60â€‰GHz Millimeter-Wave High-Speed Wireless Links for Distributed Virtual Reality Platforms. Mobile Information Systems, 2017, 2017, 1-10.	0.4	9
71	Multi-Agent Deep Reinforcement Learning for Cooperative Connected Vehicles. , 2019, , .		9
72	A novel network virtualization based on data analytics in connected environment. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 75-86.	3.3	9

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73	Adaptive Real-Time Offloading Decision-Making for Mobile Edges: Deep Reinforcement Learning Framework and Simulation Results. Applied Sciences (Switzerland), 2020, 10, 1663.	1.3	9
74	Dynamic video delivery using deep reinforcement learning for device-to-device underlaid cache-enabled Internet-of-vehicle networks. Journal of Communications and Networks, 2021, 23, 117-128.	1.8	9
75	Trends in LEO Satellite Handover Algorithms. , 2021, , .		9
76	Quantum Scheduling for Millimeter-Wave Observation Satellite Constellation. , 2021, , .		9
77	Coordinated Multi-Agent Deep Reinforcement Learning for Energy-Aware UAV-Based Big-Data Platforms. Electronics (Switzerland), 2021, 10, 543.	1.8	8
78	Empirically comparing the performance of blockchain's consensus algorithms. IET Blockchain, 2021, 1, 56-64.	1.1	8
79	A Tutorial on Quantum Graph Recurrent Neural Network (QGRNN). , 2021, , .		8
80	Infrastructure-Assisted Cooperative Multi-UAV Deep Reinforcement Energy Trading Learning for Big-Data Processing. , 2021, , .		8
81	mmWave SVD-based beamformed MIMO communication systems. , 2010, , .		7
82	Quality Analysis of Massive High-Definition Video Streaming in Two-Tiered Embedded Camera-Sensing Systems. International Journal of Distributed Sensor Networks, 2014, 10, 634191.	1.3	7
83	Fast and Low-Power Link Setup for IEEE 802.15.3c Multi-Gigabit/s Wireless Sensor Networks. IEEE Communications Letters, 2014, 18, 455-458.	2.5	7
84	Adaptive Detector Selection for Queue-Stable Word Error Rate Minimization in Connected Vehicle Receiver Design. IEEE Transactions on Vehicular Technology, 2018, 67, 3635-3639.	3.9	7
85	TEI-ULP: Exploiting Body Biasing to Improve the TEI-Aware Ultralow Power Methods. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2019, 38, 1758-1770.	1.9	7
86	Optimal Trajectory Learning for UAV-BS Video Provisioning System: A Deep Reinforcement Learning Approach. , 2019, , .		7
87	Probabilistic Caching Policy for Categorized Contents and Consecutive User Demands. , 2019, , .		7
88	Two-Stage IoT Device Scheduling With Dynamic Programming for Energy Internet Systems. IEEE Internet of Things Journal, 2019, 6, 8782-8791.	5.5	7
89	Thriving on chaos: Proactive detection of command and control domains in internet of thingsâ€scale botnets using DRIFT. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3505.	2.6	7
90	Supremo: Cloud-Assisted Low-Latency Super-Resolution in Mobile Devices. IEEE Transactions on Mobile Computing, 2022, 21, 1847-1860.	3.9	7

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91	Enhanced Next Generation Millimeter-Wave Multicarrier System with Generalized Frequency Division Multiplexing. International Journal of Antennas and Propagation, 2016, 2016, 1-11.	0.7	6
92	Interference-Aware Adaptive Beam Alignment for Hyper-Dense IEEE 802.11ax Internet-of-Things Networks. Sensors, 2018, 18, 3364.	2.1	6
93	Blind Signal Classification Analysis and Impact on User Pairing and Power Allocation in Nonorthogonal Multiple Access. IEEE Access, 2020, 8, 100916-100929.	2.6	6
94	Weather-Aware Long-Range Traffic Forecast Using Multi-Module Deep Neural Network. Applied Sciences (Switzerland), 2020, 10, 1938.	1.3	6
95	Distributed and Autonomous Aerial Data Collection in Smart City Surveillance Applications. , 2021, , .		6
96	Generative Adversarial Attacks on Fingerprint Recognition Systems. , 2021, , .		6
97	Achievable Rate Estimation of IEEE 802.11ad Visual Big-Data Uplink Access in Cloud-Enabled Surveillance Applications. PLoS ONE, 2016, 11, e0167447.	1.1	6
98	A High-Efficient Low-Cost Converter for Capacitive Wireless Power Transfer Systems. Energies, 2017, 10, 1437.	1.6	5
99	60â€‰GHz Modular Antenna Array Link Budget Estimation with WiGig Baseband and Millimeter-Wave Specific Attenuation. International Journal of Antennas and Propagation, 2017, 2017, 1-9.	0.7	5
100	Top-down parsing for Neural Network Exchange Format (NNEF) in TensorFlow-based deep learning computation. , 2018, , .		5
101	Cyclic Parameter Sharing for Privacy-Preserving Distributed Deep Learning Platforms. , 2019, , .		5
102	Adversarial Imitation Learning via Random Search. , 2019, , .		5
103	Joint Offloading and Streaming in Mobile Edges: A Deep Reinforcement Learning Approach. , 2019, , .		5
104	Fast and Reliable Offloading via Deep Reinforcement Learning for Mobile Edge Video Computing. , 2020, , .		5
105	Auction-based Deep Learning Computation Offloading for Truthful Edge Computing: A Myerson Auction Approach. , 2021, , .		5
106	Truthful electric vehicle charging via neural-architectural Myerson auction. ICT Express, 2021, 7, 196-199.	3.3	5
107	Multi-Agent Deep Reinforcement Learning using Attentive Graph Neural Architectures for Real-Time Strategy Games. , 2021, , .		5
108	Self-Adaptive Machine Learning Operating Systems for Security Applications. , 2018, , .		4

#	Article	IF	Citations
109	Very Short-Term Photovoltaic Power Generation Forecasting with Convolutional Neural Networks. , 2018, , .		4
110	Semantic Hashtag Relation Classification Using Co-occurrence Word Information. Wireless Personal Communications, 2019, 107, 1355-1365.	1.8	4
111	S2I-Bird: Sound-to-Image Generation of Bird Species using Generative Adversarial Networks. , 2021, , .		4
112	Secure Aerial Surveillance using Split Learning. , 2021, , .		4
113	Autonomous Aerial Mobility Learning for Drone-Taxi Flight Control. , 2021, , .		4
114	Stabilized Detection Accuracy Maximization Using Adaptive SAR Image Processing in LEO Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 5661-5665.	3.9	4
115	Feasibility study of stochastic streaming with 4K UHD video traces. , 2015, , .		3
116	Numerical approximation of millimeter-wave frequency sharing between cellular systems and fixed service systems. Journal of Communications and Networks, 2020, 22, 37-45.	1.8	3
117	Joint Behavioral Cloning and Reinforcement Learning Method for Propofol and Remifentanil Infusion in Anesthesia. , 2021, , .		3
118	Efficient Data Delivery in Content-Centric Network with Stronger Privacy of Publisher. , 2021, , .		3
119	Economic Theoretic LEO Satellite Coverage Control: An Auction-based Framework. , 2020, , .		3
120	Joint Pilot Design and Channel Estimation Using Deep Residual Learning for Multi-Cell Massive MIMO Under Hardware Impairments. IEEE Transactions on Vehicular Technology, 2022, 71, 7599-7612.	3.9	3
121	Energy-Efficient Stabilized Automatic Control for Multicore Baseband in Millimeter-Wave Systems. IEEE Access, 2017, 5, 16584-16591.	2.6	2
122	QoS optimal real-time video streaming in distributed wireless image-sensing platforms. Journal of Real-Time Image Processing, 2017, 13, 547-556.	2.2	2
123	A Software-Based Monitoring Framework for Time-Space Partitioned Avionics Systems. IEEE Access, 2017, 5, 19132-19143.	2.6	2
124	Hardness on Style Transfer Deep Learning for Rococo Painting Masterpieces. , 2019, , .		2
125	Overview of Distributed Federated Learning: Research Issues, Challenges, and Biomedical Applications. , 2019, , .		2
126	Cache Allocations for Consecutive Requests of Categorized Contents: Service Providerâ€™s Perspective. , 2020, , .		2

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127	Faster Data Forwarding in Content-Centric Network via Overlaid Packet Authentication Architecture. Sustainability, 2020, 12, 8746.	1.6	2
128	Performance Comparison of SRCNN, VDSR, and SRDenseNet Deep Learning Models in Embedded Autonomous Driving Platforms. , 2021, , .		2
129	3D Modeling and WebVR Implementation using Azure Kinect, Open3D, and Three.js. , 2020, , .		2
130	Distributed and reliable decision-making for cloud-enabled mobile service platforms. International Journal of Distributed Sensor Networks, 2017, 13, 155014771772650.	1.3	1
131	Distributed dynamic power-aware buffering for multi-Gbps video streaming in IEEE 802.11ad fast session transfer. , 2018, , .		1
132	Opportunistic Medium Access for Hyper-Dense Beamformed IEEE 802.11ax Wireless Networks. , 2018, , .		1
133	Personalized Online Live Video Streaming Using Softmax-Based Multinomial Classification. Applied Sciences (Switzerland), 2019, 9, 2297.	1.3	1
134	User Scheduling and Power Allocation for Content Delivery in Caching Helper Networks. , 2020, , .		1
135	On the Tradeoff between Computation-Time and Learning-Accuracy in GAN-based Super-Resolution Deep Learning. , 2021, , .		1
136	Measurement Study of Real-Time Virtual Reality Contents Streaming over IEEE 802.11ac Wireless Links. Electronics (Switzerland), 2021, 10, 1967.	1.8	1
137	On the Performance of Generative Adversarial Network (GAN) Variants: A Clinical Data Study. , 2020, , .		1
138	Stable Marriage Matching for Traffic-Aware Space-Air-Ground Integrated Networks: A Gale-Shapley Algorithmic Approach. , 2022, , .		1
139	Dynamic decision-making for fine-grained energy-efficient control in millimeter-wave access platforms. , 2017, , .		0
140	Hybrid authentication scheme in peer-aware communication. , 2017, , .		0
141	Learning-based Dot-Grid Alignment for Projection Distortion Correction. , 2020, , .		0
142	Access Management using Vickrey-Clarke-Groves Auction in Terrestrial-Drone Networks. , 2021, , .		0
143	Proper Cost Hamiltonian Design for Combinatorial Optimization Problems: A Boolean Function Approach. , 2021, , .		0
144	Dynamic Decision-Making for Stabilized Deep Learning Software Platforms. , 0, , .		0

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145	Kirchhoffâ€™s Circuit Law Applications to Graph Simplification in Search Problems. , 2020, , .		0
146	Reinforced Edge Selection using Deep Learning for Robust Surveillance in Unmanned Aerial Vehicles. , 2020, , .		0
147	Video Placements and Dynamic Streaming Services in Wireless Caching Networks. , 2020, , .		0