

Joongheon Kim

List of Publications by Year in descending order

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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	Supremo: Cloud-Assisted Low-Latency Super-Resolution in Mobile Devices. IEEE Transactions on Mobile Computing, 2022, 21, 1847-1860.	3.9	7
2	LiteZKP: Lightning Zero-Knowledge Proof-Based Blockchains for IoT and Edge Platforms. IEEE Systems Journal, 2022, 16, 112-123.	2.9	12
3	Securing Heterogeneous IoT With Intelligent DDoS Attack Behavior Learning. IEEE Systems Journal, 2022, 16, 1974-1983.	2.9	23
4	Quality-Aware Deep Reinforcement Learning for Streaming in Infrastructure-Assisted Connected Vehicles. IEEE Transactions on Vehicular Technology, 2022, 71, 2002-2017.	3.9	12
5	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
6	Stable Marriage Matching for Traffic-Aware Space-Air-Ground Integrated Networks: A Gale-Shapley Algorithmic Approach. , 2022, , .		1
7	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
8	Stabilized Detection Accuracy Maximization Using Adaptive SAR Image Processing in LEO Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 5661-5665.	3.9	4
9	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
10	A Personalized Preference Learning Framework for Caching in Mobile Networks. IEEE Transactions on Mobile Computing, 2021, 20, 2124-2139.	3.9	17
11	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
12	Intelligent Active Queue Management for Stabilized QoS Guarantees in 5G Mobile Networks. IEEE Systems Journal, 2021, 15, 4293-4302.	2.9	20
13	Joint Behavioral Cloning and Reinforcement Learning Method for Propofol and Remifentanyl Infusion in Anesthesia. , 2021, , .		3
14	Joint Mobile Charging and Coverage-Time Extension for Unmanned Aerial Vehicles. IEEE Access, 2021, 9, 94053-94063.	2.6	11
15	Access Management using Vickrey-Clarke-Groves Auction in Terrestrial-Drone Networks. , 2021, , .		0
16	Performance Comparison of SRCNN, VDSR, and SRDenseNet Deep Learning Models in Embedded Autonomous Driving Platforms. , 2021, , .		2
17	On the Tradeoff between Computation-Time and Learning-Accuracy in GAN-based Super-Resolution Deep Learning. , 2021, , .		1
18	Quantum Convolutional Neural Network for Resource-Efficient Image Classification: A Quantum Random Access Memory (QRAM) Approach. , 2021, , .		10

#	ARTICLE	IF	CITATIONS
19	Spatio-Temporal Split Learning for Privacy-Preserving Medical Platforms: Case Studies With COVID-19 CT, X-Ray, and Cholesterol Data. <i>IEEE Access</i> , 2021, 9, 121046-121059.	2.6	12
20	Auction-based Deep Learning Computation Offloading for Truthful Edge Computing: A Myerson Auction Approach. , 2021, , .		5
21	Proper Cost Hamiltonian Design for Combinatorial Optimization Problems: A Boolean Function Approach. , 2021, , .		0
22	S2I-Bird: Sound-to-Image Generation of Bird Species using Generative Adversarial Networks. , 2021, , .		4
23	Coordinated Multi-Agent Deep Reinforcement Learning for Energy-Aware UAV-Based Big-Data Platforms. <i>Electronics (Switzerland)</i> , 2021, 10, 543.	1.8	8
24	Large-Scale Water Quality Prediction Using Federated Sensing and Learning: A Case Study with Real-World Sensing Big-Data. <i>Sensors</i> , 2021, 21, 1462.	2.1	16
25	Distributed deep reinforcement learning for autonomous aerial eVTOL mobility in drone taxi applications. <i>ICT Express</i> , 2021, 7, 1-4.	3.3	38
26	Empirically comparing the performance of blockchain's consensus algorithms. <i>IET Blockchain</i> , 2021, 1, 56-64.	1.1	8
27	Multi-Behavior with Bottleneck Features LSTM for Load Forecasting in Building Energy Management System. <i>Electronics (Switzerland)</i> , 2021, 10, 1026.	1.8	13
28	Dynamic video delivery using deep reinforcement learning for device-to-device underlaid cache-enabled Internet-of-vehicle networks. <i>Journal of Communications and Networks</i> , 2021, 23, 117-128.	1.8	9
29	Probabilistic Caching and Dynamic Delivery Policies for Categorized Contents and Consecutive User Demands. <i>IEEE Transactions on Wireless Communications</i> , 2021, 20, 2685-2699.	6.1	14
30	Communication-Efficient and Distributed Learning Over Wireless Networks: Principles and Applications. <i>Proceedings of the IEEE</i> , 2021, 109, 796-819.	16.4	100
31	Orchestrated Scheduling and Multi-Agent Deep Reinforcement Learning for Cloud-Assisted Multi-UAV Charging Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 5362-5377.	3.9	50
32	Truthful electric vehicle charging via neural-architectural Myerson auction. <i>ICT Express</i> , 2021, 7, 196-199.	3.3	5
33	Measurement Study of Real-Time Virtual Reality Contents Streaming over IEEE 802.11ac Wireless Links. <i>Electronics (Switzerland)</i> , 2021, 10, 1967.	1.8	1
34	Infrastructure-Assisted On-Driving Experience Sharing for Millimeter-Wave Connected Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 7307-7321.	3.9	13
35	Distributed and Autonomous Aerial Data Collection in Smart City Surveillance Applications. , 2021, , .		6
36	Secure Aerial Surveillance using Split Learning. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
37	Trends in LEO Satellite Handover Algorithms. , 2021, , .		9
38	Trends in Blockchain and Federated Learning for Data Sharing in Distributed Platforms. , 2021, , .		10
39	Quantum Neural Networks: Concepts, Applications, and Challenges. , 2021, , .		28
40	Quantum Scheduling for Millimeter-Wave Observation Satellite Constellation. , 2021, , .		9
41	A Tutorial on Quantum Graph Recurrent Neural Network (QGRNN). , 2021, , .		8
42	Generative Adversarial Attacks on Fingerprint Recognition Systems. , 2021, , .		6
43	Infrastructure-Assisted Cooperative Multi-UAV Deep Reinforcement Energy Trading Learning for Big-Data Processing. , 2021, , .		8
44	Efficient Data Delivery in Content-Centric Network with Stronger Privacy of Publisher. , 2021, , .		3
45	Bitcoin Price Forecasting via Ensemble-based LSTM Deep Learning Networks. , 2021, , .		15
46	Attention-based Reinforcement Learning for Real-Time UAV Semantic Communication. , 2021, , .		16
47	Autonomous Aerial Mobility Learning for Drone-Taxi Flight Control. , 2021, , .		4
48	Introduction to Quantum Reinforcement Learning: Theory and PennyLane-based Implementation. , 2021, , .		20
49	Multi-Agent Deep Reinforcement Learning using Attentive Graph Neural Architectures for Real-Time Strategy Games. , 2021, , .		5
50	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
51	Toward Characterizing Blockchain-Based Cryptocurrencies for Highly Accurate Predictions. IEEE Systems Journal, 2020, 14, 321-332.	2.9	78
52	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
53	User Scheduling and Power Allocation for Content Delivery in Caching Helper Networks. , 2020, , .		1
54	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

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55	Cache Allocations for Consecutive Requests of Categorized Contents: Service Provider's Perspective. , 2020, , .		2
56	Optimal User Selection for High-Performance and Stabilized Energy-Efficient Federated Learning Platforms. Electronics (Switzerland), 2020, 9, 1359.	1.8	13
57	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
58	Quantum Approximation for Wireless Scheduling. Applied Sciences (Switzerland), 2020, 10, 7116.	1.3	20
59	Joint Message-Passing and Convex Optimization Framework for Energy-Efficient Surveillance UAV Scheduling. Electronics (Switzerland), 2020, 9, 1475.	1.8	13
60	Energy-Efficient Cluster Head Selection via Quantum Approximate Optimization. Electronics (Switzerland), 2020, 9, 1669.	1.8	12
61	Faster Data Forwarding in Content-Centric Network via Overlaid Packet Authentication Architecture. Sustainability, 2020, 12, 8746.	1.6	2
62	Privacy-Sensitive Parallel Split Learning. , 2020, , .		20
63	Simulation and measurement: Feasibility study of Tactile Internet applications for mmWave virtual reality. ETRI Journal, 2020, 42, 163-174.	1.2	12
64	The Useful Quantum Computing Techniques for Artificial Intelligence Engineers. , 2020, , .		21
65	Fast and Reliable Offloading via Deep Reinforcement Learning for Mobile Edge Video Computing. , 2020, , .		5
66	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
67	Weather-Aware Long-Range Traffic Forecast Using Multi-Module Deep Neural Network. Applied Sciences (Switzerland), 2020, 10, 1938.	1.3	6
68	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
69	Learning-based Dot-Grid Alignment for Projection Distortion Correction. , 2020, , .		0
70	Multiagent DDPG-Based Deep Learning for Smart Ocean Federated Learning IoT Networks. IEEE Internet of Things Journal, 2020, 7, 9895-9903.	5.5	67
71	Economic Theoretic LEO Satellite Coverage Control: An Auction-based Framework. , 2020, , .		3
72	A Tutorial on Quantum Convolutional Neural Networks (QCNN). , 2020, , .		47

#	ARTICLE	IF	CITATIONS
73	Kirchhoff's Circuit Law Applications to Graph Simplification in Search Problems. , 2020, , .		0
74	Reinforced Edge Selection using Deep Learning for Robust Surveillance in Unmanned Aerial Vehicles. , 2020, , .		0
75	Video Placements and Dynamic Streaming Services in Wireless Caching Networks. , 2020, , .		0
76	3D Modeling and WebVR Implementation using Azure Kinect, Open3D, and Three.js. , 2020, , .		2
77	On the Performance of Generative Adversarial Network (GAN) Variants: A Clinical Data Study. , 2020, , .		1
78	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
79	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
80	Joint Geometric Unsupervised Learning and Truthful Auction for Local Energy Market. IEEE Transactions on Industrial Electronics, 2019, 66, 1499-1508.	5.2	33
81	Semantic Hashtag Relation Classification Using Co-occurrence Word Information. Wireless Personal Communications, 2019, 107, 1355-1365.	1.8	4
82	Cyclic Parameter Sharing for Privacy-Preserving Distributed Deep Learning Platforms. , 2019, , .		5
83	Optimal Trajectory Learning for UAV-BS Video Provisioning System: A Deep Reinforcement Learning Approach. , 2019, , .		7
84	Probabilistic Caching Policy for Categorized Contents and Consecutive User Demands. , 2019, , .		7
85	Two-Stage IoT Device Scheduling With Dynamic Programming for Energy Internet Systems. IEEE Internet of Things Journal, 2019, 6, 8782-8791.	5.5	7
86	Privacy-Preserving Deep Learning Computation for Geo-Distributed Medical Big-Data Platforms. , 2019, , .		13
87	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
88	Blind Signal Classification for Non-Orthogonal Multiple Access in Vehicular Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 9722-9734.	3.9	13
89	Personalized Online Live Video Streaming Using Softmax-Based Multinomial Classification. Applied Sciences (Switzerland), 2019, 9, 2297.	1.3	1
90	Auction-Based Charging Scheduling With Deep Learning Framework for Multi-Drone Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 4235-4248.	3.9	96

#	ARTICLE	IF	CITATIONS
91	Hardness on Style Transfer Deep Learning for Rococo Painting Masterpieces. , 2019, , .		2
92	Multi-Agent Deep Reinforcement Learning for Cooperative Connected Vehicles. , 2019, , .		9
93	Overview of Distributed Federated Learning: Research Issues, Challenges, and Biomedical Applications. , 2019, , .		2
94	Adversarial Imitation Learning via Random Search. , 2019, , .		5
95	Joint Offloading and Streaming in Mobile Edges: A Deep Reinforcement Learning Approach. , 2019, , .		5
96	Markov Decision Policies for Dynamic Video Delivery in Wireless Caching Networks. IEEE Transactions on Wireless Communications, 2019, 18, 5705-5718.	6.1	35
97	A Tutorial on Quantum Approximate Optimization Algorithm (QAOA): Fundamentals and Applications. , 2019, , .		26
98	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
99	New Challenges of Wireless Power Transfer and Secured Billing for Internet of Electric Vehicles. IEEE Communications Magazine, 2019, 57, 118-124.	4.9	21
100	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
101	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
102	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
103	Top-down parsing for Neural Network Exchange Format (NNEF) in TensorFlow-based deep learning computation. , 2018, , .		5
104	Distributed dynamic power-aware buffering for multi-Gbps video streaming in IEEE 802.11ad fast session transfer. , 2018, , .		1
105	Self-Adaptive Machine Learning Operating Systems for Security Applications. , 2018, , .		4
106	Very Short-Term Photovoltaic Power Generation Forecasting with Convolutional Neural Networks. , 2018, , .		4
107	SGCO: Stabilized Green Crosshaul Orchestration for Dense IoT Offloading Services. IEEE Journal on Selected Areas in Communications, 2018, 36, 2538-2548.	9.7	34
108	Opportunistic Medium Access for Hyper-Dense Beamformed IEEE 802.11ax Wireless Networks. , 2018, , .		1

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109	Interference-Aware Adaptive Beam Alignment for Hyper-Dense IEEE 802.11ax Internet-of-Things Networks. <i>Sensors</i> , 2018, 18, 3364.	2.1	6
110	ShmCaffe: A Distributed Deep Learning Platform with Shared Memory Buffer for HPC Architecture. , 2018, , .		14
111	Soft Memory Box: A Virtual Shared Memory Framework for Fast Deep Neural Network Training in Distributed High Performance Computing. <i>IEEE Access</i> , 2018, 6, 26493-26504.	2.6	12
112	Wireless Video Caching and Dynamic Streaming Under Differentiated Quality Requirements. <i>IEEE Journal on Selected Areas in Communications</i> , 2018, 36, 1245-1257.	9.7	61
113	Feasibility Study of 60 GHz Millimeter-Wave Technologies for Hyperconnected Fog Computing Applications. <i>IEEE Internet of Things Journal</i> , 2017, 4, 1165-1173.	5.5	16
114	Residential Demand Response for Renewable Energy Resources in Smart Grid Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2017, 13, 3165-3173.	7.2	94
115	Adaptive Resource Balancing for Serviceability Maximization in Fog Radio Access Networks. <i>IEEE Access</i> , 2017, 5, 14548-14559.	2.6	40
116	Performance of deep learning computation with TensorFlow software library in GPU-capable multi-core computing platforms. , 2017, , .		21
117	Energy-Efficient Stabilized Automatic Control for Multicore Baseband in Millimeter-Wave Systems. <i>IEEE Access</i> , 2017, 5, 16584-16591.	2.6	2
118	QoS optimal real-time video streaming in distributed wireless image-sensing platforms. <i>Journal of Real-Time Image Processing</i> , 2017, 13, 547-556.	2.2	2
119	Dynamic decision-making for fine-grained energy-efficient control in millimeter-wave access platforms. , 2017, , .		0
120	Hybrid authentication scheme in peer-aware communication. , 2017, , .		0
121	A Software-Based Monitoring Framework for Time-Space Partitioned Avionics Systems. <i>IEEE Access</i> , 2017, 5, 19132-19143.	2.6	2
122	Distributed and reliable decision-making for cloud-enabled mobile service platforms. <i>International Journal of Distributed Sensor Networks</i> , 2017, 13, 155014771772650.	1.3	1
123	A High-Efficient Low-Cost Converter for Capacitive Wireless Power Transfer Systems. <i>Energies</i> , 2017, 10, 1437.	1.6	5
124	Strategic Control of 60GHz Millimeter-Wave High-Speed Wireless Links for Distributed Virtual Reality Platforms. <i>Mobile Information Systems</i> , 2017, 2017, 1-10.	0.4	9
125	60GHz Modular Antenna Array Link Budget Estimation with WiGig Baseband and Millimeter-Wave Specific Attenuation. <i>International Journal of Antennas and Propagation</i> , 2017, 2017, 1-9.	0.7	5
126	REQUEST. , 2017, , .		25

#	ARTICLE	IF	CITATIONS
127	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
128	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
129	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
130	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
131	Quality-Aware Streaming and Scheduling for Device-to-Device Video Delivery. IEEE/ACM Transactions on Networking, 2016, 24, 2319-2331.	2.6	138
132	Adaptive Suspicious Prevention for Defending DoS Attacks in SDN-Based Convergent Networks. PLoS ONE, 2016, 11, e0160375.	1.1	27
133	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
134	Feasibility study of stochastic streaming with 4K UHD video traces. , 2015, , .		3
135	Error concealment mode signaling for robust mobile video transmission. AEU - International Journal of Electronics and Communications, 2015, 69, 1070-1073.	1.7	9
136	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
137	Quality of video streaming in 38GHz millimetre-wave heterogeneous cellular networks. Electronics Letters, 2014, 50, 1526-1528.	0.5	59
138	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
139	Quality-aware millimeter-wave device-to-device multi-hop routing for 5G cellular networks. , 2014, , .		26
140	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
141	Fast millimeter-wave beam training with receive beamforming. Journal of Communications and Networks, 2014, 16, 512-522.	1.8	101
142	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
143	Enabling Gigabit services for IEEE 802.11ad-capable high-speed train networks. , 2013, , .		18
144	Quality-aware coding and relaying for 60 GHz real-time wireless video broadcasting. , 2013, , .		16

#	ARTICLE	IF	CITATIONS
145	Joint optimization of HD video coding rates and unicast flow control for IEEE 802.11ad relaying. , 2011, , .		17
146	mmWave SVD-based beamformed MIMO communication systems. , 2010, , .		7
147	Dynamic Decision-Making for Stabilized Deep Learning Software Platforms. , 0, , .		0