

# Hoon Oh

## List of Publications by Year in descending order

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59  
papers

467  
citations

840776

11  
h-index

752698

20  
g-index

60  
all docs

60  
docs citations

60  
times ranked

380  
citing authors

#	ARTICLE	IF	CITATIONS
1	AURP: An AUV-Aided Underwater Routing Protocol for Underwater Acoustic Sensor Networks. Sensors, 2012, 12, 1827-1845.	3.8	125
2	A Two-Hop Real-Time LoRa Protocol for Industrial Monitoring and Control Systems. IEEE Access, 2020, 8, 126239-126252.	4.2	25
3	Design and Implementation of a MAC Protocol for Timely and Reliable Delivery of Command and Data in Dynamic Wireless Sensor Networks. Sensors, 2013, 13, 13228-13257.	3.8	22
4	A Real-Time LoRa Protocol for Industrial Monitoring and Control Systems. IEEE Access, 2020, 8, 44727-44738.	4.2	22
5	An Encryption Based Black Hole Detection Mechanism in Mobile Ad Hoc Networks. International Journal of Security and Its Applications, 2013, 7, 1-10.	0.8	21
6	A Slotted Sense Multiple Access Protocol for Timely and Reliable Data Transmission in Dynamic Wireless Sensor Networks. IEEE Sensors Journal, 2018, 18, 2184-2194.	4.7	20
7	RoCoMAR: Robots' Controllable Mobility Aided Routing and Relay Architecture for Mobile Sensor Networks. Sensors, 2013, 13, 8695-8721.	3.8	18
8	A tree-based approach for the Internet connectivity of mobile ad hoc networks. Journal of Communications and Networks, 2009, 11, 261-270.	2.6	17
9	HiCoDG: A Hierarchical Data-Gathering Scheme Using Cooperative Multiple Mobile Elements. Sensors, 2014, 14, 24278-24304.	3.8	15
10	RSBP: A Reliable Slotted Broadcast Protocol in Wireless Sensor Networks. Sensors, 2012, 12, 14630-14646.	3.8	12
11	A Link Quality Prediction Metric for Location based Routing Protocols under Shadowing and Fading Effects in Vehicular Ad Hoc Networks. Procedia Computer Science, 2014, 34, 565-570.	2.0	12
12	A demand-based slot assignment algorithm for energy-aware reliable data transmission in wireless sensor networks. Wireless Networks, 2012, 18, 523-534.	3.0	11
13	Design and Implementation of a Multi-Hop Real-Time LoRa Protocol for Dynamic LoRa Networks. Sensors, 2022, 22, 3518.	3.8	11
14	Environment Learning-Based Coverage Maximization With Connectivity Constraints in Mobile Sensor Networks. IEEE Sensors Journal, 2016, 16, 3958-3971.	4.7	10
15	A Receiver for Resource-Constrained Wireless Sensor Devices to Remove the Effect of Multipath Fading. IEEE Transactions on Industrial Electronics, 2018, 65, 6009-6016.	7.9	10
16	SCSMA: A Smart CSMA/CA Using Blind Learning for Wireless Sensor Networks. IEEE Transactions on Industrial Electronics, 2020, 67, 10981-10988.	7.9	10
17	VirFID: A Virtual Force (VF)-based Interest-Driven moving phenomenon monitoring scheme using multiple mobile sensor nodes. Ad Hoc Networks, 2015, 27, 112-132.	5.5	9
18	A Slotted Transmission with Collision Avoidance for LoRa Networks. Procedia Computer Science, 2020, 177, 94-101.	2.0	8

#	ARTICLE	IF	CITATIONS
19	Quasi-tree mobility management for internet connectivity of mobile ad hoc networks. <i>Wireless Networks</i> , 2011, 17, 493-506.	3.0	6
20	A tree-based mobility management using message aggregation based on a skewed wait time assignment in infrastructure based MANETs. <i>Wireless Networks</i> , 2014, 20, 537-552.	3.0	6
21	An Energy-Efficient Slotted Sense Multiple Access Broadcast Protocol for Reliable Command Delivery in Dynamic Wireless Sensor Networks. <i>Sensors</i> , 2019, 19, 1236.	3.8	6
22	O-MAC: an optimized MAC protocol for concurrent data transmission in real-time wireless sensor networks. <i>Wireless Networks</i> , 2015, 21, 1847-1861.	3.0	5
23	A two-channel slotted sense multiple access protocol for timely and reliable data transmission in industrial wireless sensor networks. <i>International Journal of Distributed Sensor Networks</i> , 2020, 16, 155014772090200.	2.2	5
24	A Big Slot Scheduling Algorithm for the Reliable Delivery of Real-Time Data Packets in Wireless Sensor Networks. <i>Lecture Notes in Electrical Engineering</i> , 2016, , 13-25.	0.4	5
25	A Controllable Mobility (CM)-aided Routing protocol using Mobility Prediction in MANETs. , 2013, , .		4
26	A Roadside Unit Based Hybrid Routing Protocol for Vehicular Ad Hoc Networks. <i>IEICE Transactions on Communications</i> , 2015, E98.B, 2400-2418.	0.7	4
27	A slot demand-based path reservation approach for the timely and reliable delivery of bursty traffic in WMSNs. <i>Concurrency Computation Practice and Experience</i> , 2015, 27, 2569-2587.	2.2	4
28	Constructing an optimally balanced tree to maximize data throughput with multiple channels. <i>Wireless Networks</i> , 2018, 24, 993-1005.	3.0	4
29	A Mobility Management and Routing Protocol Using Tree Architecture for Internet Connectivity of Mobile Ad Hoc Networks. , 2007, , .		3
30	A novel hierarchical cooperative data gathering architecture using multiple mobile elements. , 2014, , .		3
31	SSMAB: A Slotted Sense Multiple Access Broadcasting Protocol for Dynamic Wireless Sensor Networks. <i>Procedia Computer Science</i> , 2015, 56, 205-212.	2.0	3
32	Optimized Sharable-Slot Allocation Using Multiple Channels to Reduce Data-Gathering Delay in Wireless Sensor Networks. <i>Sensors</i> , 2016, 16, 505.	3.8	3
33	A Smart Multichannel Slotted Sense Multiple Access Protocol for Industrial Wireless Sensor Networks. <i>IEEE Internet of Things Journal</i> , 2022, 9, 12460-12471.	8.7	3
34	A Real-Time LoRa Protocol Using Logical Frame Partitioning for Periodic and Aperiodic Data Transmission. <i>IEEE Internet of Things Journal</i> , 2022, 9, 15401-15412.	8.7	3
35	Improvement of IEEE 802.11 for multimedia traffic in wireless LAN. , 2007, , .		2
36	A looping problem in the tree-based mobility management for mobile IP supported ad hoc networks. <i>Journal of Communications and Networks</i> , 2011, 13, 385-392.	2.6	2

#	ARTICLE	IF	CITATIONS
37	TLSR: A tree link state routing protocol using message aggregation based on a skewed wait time assignment for infrastructure-based mobile ad hoc networks. Computer Communications, 2016, 74, 87-100.	5.1	2
38	An Optimized Approach for Time-Constrained and Reliable Bursty Data Acquisition in WMSNs. International Journal of Distributed Sensor Networks, 2015, 11, 826937.	2.2	2
39	Detecting and Resolving a Loop in the Tree-Based Mobility Management Protocol. Lecture Notes in Computer Science, 2010, , 583-592.	1.3	2
40	Performance Evaluation of LoRa Networks for Confirmed Messages. , 2021, , .		2
41	A Group Dynamic Source Routing Protocol for Mobile Ad Hoc Networks. , 2006, , .		1
42	Design of Real-Time Embedded Music System. , 2007, , .		1
43	A Group Dynamic Source Routing protocol (GDSR) using the passive clustering for wireless mobile ad hoc networks. , 2012, , .		1
44	Reinforcing wireless links using controllable mobility of robotic relays. , 2012, , .		1
45	A Multi-Channel Frame-Slot Assignment Algorithm for Real-Time MACs in Wireless Sensor Networks. Lecture Notes in Computer Science, 2014, , 170-179.	1.3	1
46	A mobility prediction (MP)-based phenomenon monitoring in an unbounded area. , 2015, , .		1
47	A Low Control Overhead Big Slot Scheduling MAC Protocol for Reducing Competition in Wireless Sensor Networks. , 2017, , .		1
48	Evaluation of a Compound Node Selection Function for a Greedy Routing in Urban Vehicular Ad Hoc Networks. Procedia Computer Science, 2018, 134, 259-266.	2.0	1
49	A Pipelined Cooperative Transmission Protocol for Fast and Reliable Image Delivery in Wireless Sensor Networks. IEEE Access, 2020, 8, 142758-142771.	4.2	1
50	BSSACH: A Big Slot Scheduling Algorithm with Channel Hopping for Dynamic Wireless Sensor Networks. Lecture Notes in Computer Science, 2017, , 359-366.	1.3	1
51	Concurrent Design of Audio Application for Embedded Music Systems. , 2006, , .		0
52	An optimized message aggregation method to resolve funneling effect in mobility management. , 2011, , .		0
53	A Prediction-Based Approach to Moving-Phenomenon Monitoring Using Mobile Sensor Nodes. IEICE Transactions on Communications, 2016, E99.B, 1754-1762.	0.7	0
54	A Receiver-Initiated Big Slot Scheduling MAC Protocol for Reducing Collision in Wireless Sensor Networks. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
55	A Multi-Channel Slotted Sense Multiple Access Protocol Using Common Channel for Dynamic Wireless Sensor Networks. , 2016, , .		0
56	A Network-Controlled Approach for the Timely and Reliable Acquisition of Bursty Data in WMSNs. Lecture Notes in Computer Science, 2013, , 1-15.	1.3	0
57	A Bullet-Proof Verification Approach to Defend against Black Hole Attacks in Mobile Ad Hoc Networks. IEICE Transactions on Communications, 2015, E98.B, 422-436.	0.7	0
58	Experimental Study on the Effects of External Interference on Slot Scheduling Based MAC Protocols in Wireless Sensor Networks. Lecture Notes in Electrical Engineering, 2016, , 29-39.	0.4	0
59	An Energy-Aware Approach for Event-Driven Multimedia Data Acquisition in WMSNs. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 131-141.	0.3	0