

Sunwoo Kim

List of Publications by Year in descending order

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85
papers

1,410
citations

394421

19
h-index

377865

34
g-index

85
all docs

85
docs citations

85
times ranked

1329
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey of Enabling Technologies for Network Localization, Tracking, and Navigation. IEEE Communications Surveys and Tutorials, 2018, 20, 3607-3644.	39.4	281
2	Robust Beam-Tracking for mmWave Mobile Communications. IEEE Communications Letters, 2017, 21, 2654-2657.	4.1	96
3	5G mmWave Cooperative Positioning and Mapping Using Multi-Model PHD Filter and Map Fusion. IEEE Transactions on Wireless Communications, 2020, 19, 3782-3795.	9.2	86
4	Deep Reinforcement Learning Multi-UAV Trajectory Control for Target Tracking. IEEE Internet of Things Journal, 2021, 8, 15441-15455.	8.7	50
5	Design of a Dual-Band Quadrifilar Helix Antenna Using Stepped-Width Arms. IEEE Transactions on Antennas and Propagation, 2015, 63, 1858-1862.	5.1	42
6	Network Design for Accurate Vehicle Localization. IEEE Transactions on Vehicular Technology, 2019, 68, 4316-4327.	6.3	39
7	A Matching-Pursuit/GSIC-Based Algorithm for DS-CDMA Sparse-Channel Estimation. IEEE Signal Processing Letters, 2004, 11, 12-15.	3.6	37
8	RAPS: Reliable Anchor Pair Selection for Range-Free Localization in Anisotropic Networks. IEEE Communications Letters, 2014, 18, 1403-1406.	4.1	36
9	5G SLAM Using the Clustering and Assignment Approach with Diffuse Multipath. Sensors, 2020, 20, 4656.	3.8	36
10	Signal Classification and Jamming Detection in Wide-Band Radios Using Naïve Bayes Classifier. IEEE Communications Letters, 2018, 22, 1398-1401.	4.1	34
11	5G mm Wave Downlink Vehicular Positioning. , 2018, , .		34
12	6G R&D vision: Requirements and candidate technologies. Journal of Communications and Networks, 2022, 24, 232-245.	2.6	34
13	Multihop range-free localization with approximate shortest path in anisotropic wireless sensor networks. Eurasip Journal on Wireless Communications and Networking, 2014, 2014, .	2.4	33
14	Geometric derivation of expectation-maximization and generalized successive interference cancellation algorithms with applications to CDMA channel estimation. IEEE Transactions on Signal Processing, 2003, 51, 1367-1377.	5.3	28
15	Efficient Beam Training and Sparse Channel Estimation for Millimeter Wave Communications Under Mobility. IEEE Transactions on Communications, 2020, 68, 6583-6596.	7.8	27
16	Deep Learning-Based Beam Tracking for Millimeter-Wave Communications Under Mobility. IEEE Transactions on Communications, 2021, 69, 7458-7469.	7.8	23
17	Angle-Domain Frequency-Selective Sparse Channel Estimation for Underwater MIMO-OFDM Systems. IEEE Communications Letters, 2012, 16, 685-687.	4.1	22
18	Geolocation in ad hoc networks using DS-CDMA and generalized successive interference cancellation. IEEE Journal on Selected Areas in Communications, 2005, 23, 984-998.	14.0	21

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19	PDR/fingerprinting fusion indoor location tracking using RSS recovery and clustering. , 2014, , .		21
20	Adaptive Beamwidth Control for mmWave Beam Tracking. IEEE Communications Letters, 2021, 25, 137-141.	4.1	20
21	Improvement of Pattern Null Depth and Width Using a Curved Array With Two Subarrays for CRPA Systems. IEEE Transactions on Antennas and Propagation, 2015, 63, 2824-2827.	5.1	19
22	Cooperative localization with distributed ADMM over 5G-based VANETs. , 2018, , .		19
23	5G mmWave Vehicular Tracking. , 2018, , .		18
24	Deep Reinforcement Learning-Based Network Slicing for Beyond 5G. IEEE Access, 2022, 10, 7384-7395.	4.2	18
25	Cooperative Localization With Constraint Satisfaction Problem in 5G Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 3180-3189.	8.0	17
26	Dual Channel S-Band Frequency Modulated Continuous Wave Through-Wall Radar Imaging. Sensors, 2018, 18, 311.	3.8	15
27	Design of a Small Arc-Shaped Antenna Array with High Isolation for Applications of Controlled Reception Pattern Antennas. IEEE Transactions on Antennas and Propagation, 2016, 64, 1542-1546.	5.1	14
28	Connectivity Information-Aided Belief Propagation for Cooperative Localization. IEEE Wireless Communications Letters, 2018, 7, 1010-1013.	5.0	13
29	SINR Maximization Beam Selection for mmWave Beamspace MIMO Systems. IEEE Access, 2020, 8, 185688-185697.	4.2	13
30	Design of a dual-band GPS antenna using a coupled feeding structure for high isolation in a small array. Microwave and Optical Technology Letters, 2014, 56, 359-361.	1.4	12
31	Range-free indoor positioning system using smartphone with bluetooth capability. , 2014, , .		12
32	Array-based GNSS signal tracking with a reduced state signal model. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 1267-1283.	4.7	12
33	A Computationally Efficient EK-PMBM Filter for Bistatic mmWave Radio SLAM. IEEE Journal on Selected Areas in Communications, 2022, 40, 2179-2192.	14.0	12
34	PMBM-Based SLAM Filters in 5G mmWave Vehicular Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 8646-8661.	6.3	12
35	Pascal's triangle-based range-free localization for anisotropic wireless networks. Wireless Networks, 2016, 22, 2221-2238.	3.0	11
36	3D moving target tracking with measurement fusion of TDoA/FDoA/AoA. ICT Express, 2019, 5, 115-119.	4.8	11

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37	Counting $\langle \mathbf{A} \rangle$ Hop Paths in the Random Connection Model. IEEE Transactions on Wireless Communications, 2018, 17, 3201-3210.	9.2	10
38	DNN-Assisted Cooperative Localization in Vehicular Networks. Energies, 2019, 12, 2758.	3.1	10
39	Deep Learning Based Low-Rank Matrix Completion for IoT Network Localization. IEEE Wireless Communications Letters, 2021, 10, 2115-2119.	5.0	10
40	A Suboptimal Approach to Antenna Design Problems With Kernel Regression. IEEE Access, 2019, 7, 17461-17468.	4.2	9
41	Location-Aware Coordinated Beam Alignment in mmWave Communication. , 2018, , .		8
42	A Millimeter Wave Beam Tracking in Vehicular Scenario via Particle Filter. , 2018, , .		8
43	Low-Complexity 5g Slam with CKF-PHD Filter. , 2020, , .		8
44	Federated Learning for Indoor Localization via Model Reliability With Dropout. IEEE Communications Letters, 2022, 26, 1553-1557.	4.1	8
45	Experimental outage capacity analysis for off-body wireless body area network channel with transmit diversity. IEEE Transactions on Consumer Electronics, 2012, 58, 274-277.	3.6	7
46	IMU-assisted nearest neighbor selection for real-time WiFi fingerprinting positioning. , 2014, , .		7
47	UWB-based Multiple UAV Control System for Indoor Ground Vehicle Tracking. , 2021, , .		7
48	Heterogeneous Device Tracking With RSS Variation Mitigation Over a Radio Map. IEEE Wireless Communications Letters, 2016, 5, 552-555.	5.0	6
49	Euclidean Matchings in Ultra-Dense Networks. IEEE Communications Letters, 2018, 22, 1216-1219.	4.1	6
50	Long-Range Drone Detection of 24 G FMCW Radar with E-plane Sectoral Horn Array. Sensors, 2018, 18, 4171.	3.8	6
51	Wideband DOA Estimation on Co-prime Array via Atomic Norm Minimization. Energies, 2020, 13, 3235.	3.1	6
52	Machine Learning-Based Vision-Aided Beam Selection for mmWave Multiuser MISO System. IEEE Wireless Communications Letters, 2022, 11, 1263-1267.	5.0	6
53	CUSUM-based Joint Jammer Detection and Localization. , 2018, , .		5
54	Off-Grid DoA Estimation on Non-Uniform Linear Array Using Constrained Hermitian Matrix. Energies, 2020, 13, 5775.	3.1	5

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55	Joint CKF-PHD Filter and Map Fusion for 5G Multi-cell SLAM. , 2020, , .		5
56	Off-Grid DoA Estimation via Two-Stage Cascaded Neural Network. Energies, 2021, 14, 228.	3.1	5
57	Coordinated CRLB-based Control for Tracking Multiple First Responders in 3D Environments. , 2020, , .		4
58	Optimum number of secondary users in cooperative spectrum sensing using adaptive threshold. , 2010, , .		3
59	Pascal's triangle-based multihop range-free localization for anisotropic sensor networks. , 2014, , .		3
60	Array configuration optimisation of dual-band controlled reception pattern antenna arrays for anisotropic ground platforms. IET Microwaves, Antennas and Propagation, 2014, 8, 597-603.	1.4	3
61	Super-Resolution DoA Estimation on a Co-Prime Array via Positive Atomic Norm Minimization. Energies, 2020, 13, 3609.	3.1	3
62	Blockwise Phase Rotation-Aided Analog Transmit Beamforming for 5G mmWave Systems. IEEE Wireless Communications Letters, 2021, 10, 2365-2368.	5.0	3
63	EM-based acquisition of DS-CDMA waveforms for radiolocation. , 0, , .		2
64	Scalable DV-Hop Localization Algorithm with Constrained Multilateration for Wireless Sensor Network. IEICE Transactions on Communications, 2009, E92-B, 3075-3078.	0.7	2
65	Multipath Interference Cancellation Technique for High Precision Tracking in GNSS Receiver. IEICE Transactions on Communications, 2010, E93-B, 1961-1964.	0.7	2
66	Integrated PDR/fingerprinting indoor location tracking with outdated radio map. , 2014, , .		2
67	Kalman-based mobility tracking with range-free localization under a realistic device distribution. , 2016, , .		2
68	On the opportunistic location-aware transmission power adaptation in mm-wave communications. , 2017, , .		2
69	Location-aware Power Adaptation Scheme for UAV Communications. , 2018, , .		2
70	A Theoretical Analysis of Mobility Detection in Connectivity-Based Localization for Short-Range Networks. Energies, 2021, 14, 1162.	3.1	2
71	DoA Estimation of Line of Sight Signal in Multipath Channel for GNSS Receiver. IEICE Transactions on Communications, 2009, E92-B, 3397-3400.	0.7	1
72	An accelerated signal tracking module using a heterogeneous multi-GPU platform for real-time GNSS software receiver. , 2015, , .		1

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73	A Sidelobe Suppression Technique for Millimeter Wave Beamforming. , 2018, , .		1
74	Optimizing the mmWave Channel Estimation Duration by Rate Prediction. IEEE Communications Letters, 2021, 25, 555-559.	4.1	1
75	Expected Effect of Adopting the eCall System on Reducing Traffic-Related Deaths and Social Costs. IEEE Intelligent Transportation Systems Magazine, 2023, 15, 193-211.	3.8	1
76	CDMA sparse channel estimation using a GSIC/AM algorithm for radiolocation. , 0, , .		0
77	Array configuration optimization using an objective function for accurate DOA estimation. , 2013, , .		0
78	Multihop range-free localization with approximate shortest path in anisotropic networks. , 2014, , .		0
79	A hyperbolic distance measurement model for range-free localization in anisotropic networks. , 2015, , .		0
80	Measurement fusion of connectivity and received signal strength for indoor localization and tracking. , 2016, , .		0
81	Kalman tracking of mobile devices considering range-free localization accuracy. , 2016, , .		0
82	Performance analysis of cooperative quickest interference detection for GNSS. , 2016, , .		0
83	A Sequential Approach to Direct Multi-Target Localization in MIMO Radar Networks. IETE Journal of Research, 2021, 67, 180-185.	2.6	0
84	Guest Editorial: Special Issue on Designs and Algorithms of Localization in Vehicular Networks. Energies, 2022, 15, 2223.	3.1	0
85	Optimized Switching Between Sensing and Communication for mmWave MU-MISO Systems. , 2022, , .		0