

Klaus Witrissal

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,549
citations

687363

13
h-index

752698

20
g-index

41
all docs

41
docs citations

41
times ranked

1104
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Accuracy Localization for Assisted Living: 5G systems will turn multipath channels from foe to friend. IEEE Signal Processing Magazine, 2016, 33, 59-70.	5.6	321
2	Noncoherent ultra-wideband systems. IEEE Signal Processing Magazine, 2009, 26, 48-66.	5.6	298
3	A Belief Propagation Algorithm for Multipath-Based SLAM. IEEE Transactions on Wireless Communications, 2019, 18, 5613-5629.	9.2	130
4	UWB for Robust Indoor Tracking: Weighting of Multipath Components for Efficient Estimation. IEEE Wireless Communications Letters, 2014, 3, 501-504.	5.0	118
5	Evaluation of Position-Related Information in Multipath Components for Indoor Positioning. IEEE Journal on Selected Areas in Communications, 2015, 33, 2313-2328.	14.0	113
6	Using DecaWave UWB transceivers for high-accuracy multipath-assisted indoor positioning. , 2017, , .		70
7	5G Positioning and Mapping With Diffuse Multipath. IEEE Transactions on Wireless Communications, 2021, 20, 1164-1174.	9.2	51
8	Multipath-Based SLAM Exploiting AoA and Amplitude Information. , 2019, , .		35
9	Bandwidth Scaling and Diversity Gain for Ranging and Positioning in Dense Multipath Channels. IEEE Wireless Communications Letters, 2016, 5, 396-399.	5.0	34
10	SALMA. , 2018, , .		34
11	Simultaneous localization and mapping using multipath channel information. , 2015, , .		33
12	Modeling and Mitigation of Narrowband Interference for Transmitted-Reference UWB Systems. IEEE Journal on Selected Topics in Signal Processing, 2007, 1, 456-469.	10.8	30
13	Anchorless Cooperative Tracking Using Multipath Channel Information. IEEE Transactions on Wireless Communications, 2018, 17, 2262-2275.	9.2	29
14	Statistical Analysis of UWB Channel Correlation Functions. IEEE Transactions on Vehicular Technology, 2008, 57, 1359-1373.	6.3	28
15	Factor graph based simultaneous localization and mapping using multipath channel information. , 2017, , .		28
16	Belief propagation based joint probabilistic data association for multipath-assisted indoor navigation and tracking. , 2016, , .		27
17	Dependability for the Internet of Things“from dependable networking in harsh environments to a holistic view on dependability. Elektrotechnik Und Informationstechnik, 2016, 133, 304-309.	1.1	17
18	Single-Anchor Positioning: Multipath Processing With Non-Coherent Directional Measurements. IEEE Access, 2020, 8, 88115-88132.	4.2	16

#	ARTICLE	IF	CITATIONS
19	Tensor Decomposition Based Beamspace ESPRIT for Millimeter Wave MIMO Channel Estimation. , 2018, , .		14
20	Accuracy Bounds for Array-Based Positioning in Dense Multipath Channels. Sensors, 2018, 18, 4249.	3.8	13
21	RSS-Based Cooperative Localization and Orientation Estimation Exploiting Antenna Directivity. IEEE Access, 2021, 9, 53046-53060.	4.2	11
22	Range Estimation and Performance Limits for UHF-RFID Backscatter Channels. IEEE Journal of Radio Frequency Identification, 2017, 1, 39-50.	2.3	10
23	A Message Passing based Adaptive PDA Algorithm for Robust Radio-based Localization and Tracking. , 2021, , .		10
24	On the Use of Mpc Amplitude Information in Radio Signal Based Slam. , 2018, , .		8
25	Real-time demonstration of multipath-assisted indoor navigation and tracking (MINT). , 2014, , .		7
26	Extension of an SDR UHF RFID Testbed for MIMO and Monostatic Time of Flight Based Ranging. IEEE Journal of Radio Frequency Identification, 2017, 1, 32-38.	2.3	7
27	Impact of Rough Surface Scattering on Stochastic Multipath Component Models. , 2018, , .		7
28	Compact broadband frequency selective microstrip antenna and its application to indoor positioning systems for wireless networks. IET Microwaves, Antennas and Propagation, 2019, 13, 1142-1150.	1.4	7
29	Detection and Estimation of a Spectral Line in MIMO Systems. , 2020, , .		7
30	Single-Anchor, Multipath-Assisted Indoor Positioning with Aliased Antenna Arrays (Invited Paper). , 2018, , .		6
31	Delay Estimation in Presence of Dense Multipath. IEEE Wireless Communications Letters, 2019, 8, 1481-1484.	5.0	6
32	Channel Capacity Analysis of Indoor Environments for Location-Aware Communications. , 2016, , .		6
33	Message Passing-Based Cooperative Localization with Embedded Particle Flow. , 2022, , .		4
34	Modeling Human Body Influence in UWB Channels. , 2020, , .		3
35	Information-Criterion-Based Agent Selection for Cooperative Localization in Static Networks. , 2020, , .		3
36	Gaussian Process Modeling of Specular Multipath Components. Applied Sciences (Switzerland), 2020, 10, 5216.	2.5	3

#	ARTICLE	IF	CITATIONS
37	An Adaptive Algorithm for Joint Cooperative Localization and Orientation Estimation using Belief Propagation. , 2021, , .		2
38	Statistical Modeling of the Human Body as an Extended Antenna. , 2021, , .		1
39	Amplitude Modeling of Specular Multipath Components for Robust Indoor Localization. Sensors, 2022, 22, 462.	3.8	1
40	Multipath-Based Localization and Tracking Considering Off-Body Channel Effects. , 2022, , .		1
41	Map-based Antenna Adaptation for Multipath-assisted Positioning. , 2021, , .		0