Troels Pedersen

List of Publications by Year
in descending order

51 papers	840 citations	623734 14 h-index	677142 22 g-index
51 all docs	51 docs citations	51 times ranked	752 citing authors

#	Article	IF	Citations
1	ARIMA-Based Time Series Model of Stochastic Wind Power Generation. IEEE Transactions on Power Systems, 2010, 25, 667-676.	6.5	281
2	Modeling of Reverberant Radio Channels Using Propagation Graphs. IEEE Transactions on Antennas and Propagation, 2012, 60, 5978-5988.	5.1	66
3	A variational message passing algorithm for sensor self-localization in wireless networks. , 2011, , .		40
4	Distance Dependent Model for the Delay Power Spectrum of In-room Radio Channels. IEEE Transactions on Antennas and Propagation, 2013, 61, 4327-4340.	5.1	34
5	Analysis and Design of Binary Message Passing Decoders. IEEE Transactions on Communications, 2012, 60, 601-607.	7.8	33
6	Hybrid Model for Reverberant Indoor Radio Channels Using Rays and Graphs. IEEE Transactions on Antennas and Propagation, 2016, 64, 4036-4048.	5.1	32
7	Experimental Validation of the Reverberation Effect in Room Electromagnetics. IEEE Transactions on Antennas and Propagation, 2015, 63, 2041-2053.	5.1	23
8	Experimental Evidence for Heavy Tailed Interference in the IoT. IEEE Communications Letters, 2021, 25, 692-695.	4.1	21
9	Cooperative Localization for Mobile Networks: A Distributed Belief Propagation–Mean Field Message Passing Algorithm. IEEE Signal Processing Letters, 2016, 23, 828-832.	3.6	19
10	A Hybrid Ray and Graph Model for Simulating Vehicle-to-Vehicle Channels in Tunnels. IEEE Transactions on Vehicular Technology, 2018, 67, 7955-7968.	6.3	19
11	Reverberant Room-to-Room Radio Channel Prediction by Using Rays and Graphs. IEEE Transactions on Antennas and Propagation, 2019, 67, 484-494.	5.1	18
12	Learning Parameters of Stochastic Radio Channel Models From Summaries. IEEE Open Journal of Antennas and Propagation, 2020, 1, 175-188.	3.7	16
13	Modeling of Path Arrival Rate for In-Room Radio Channels With Directive Antennas. IEEE Transactions on Antennas and Propagation, 2018, 66, 4791-4805.	5.1	15
14	Polarimetric Wireless Indoor Channel Modeling Based on Propagation Graph. IEEE Transactions on Antennas and Propagation, 2019, 67, 6585-6595.	5.1	15
15	Analysis of Stochastic Radio Channels With Temporal Birth-Death Dynamics: A Marked Spatial Point Process Perspective. IEEE Transactions on Antennas and Propagation, 2014, 62, 3761-3775.	5.1	14
16	Stochastic Multipath Model for the In-Room Radio Channel Based on Room Electromagnetics. IEEE Transactions on Antennas and Propagation, 2019, 67, 2591-2603.	5.1	14
17	Short-Range UWB Wireless Channel Measurement in Industrial Environments. , 2019, , .		12
18	Modeling of outdoor-to-indoor radio channels via propagation graphs. , 2014, , .		11

#	ARTICLE	IF	CITATIONS
19	Estimator for Stochastic Channel Model without Multipath Extraction using Temporal Moments. , 2019, , .		11
20	Parameter Estimation for Stochastic Channel Models using Temporal Moments. , 2019, , .		11
21	Measurement-Based Feasibility Exploration on Detecting and Localizing Multiple Humans Using MIMO Radio Channel Properties. IEEE Access, 2020, 8, 3738-3750.	4.2	11
22	Parametric Characterization and Estimation of Bi-Azimuth Dispersion Path Components. , 2006, , .		10
23	A SAGE Algorithm for Estimation of the Direction Power Spectrum of Individual Path Components. , 2007, , .		10
24	Optimization of Spatiotemporal Apertures in Channel Sounding. IEEE Transactions on Signal Processing, 2008, 56, 4810-4824.	5.3	10
25	Calibration of Stochastic Channel Models Using Approximate Bayesian Computation. , 2019, , .		10
26	A Hybrid Positioning Method Based on Hypothesis Testing. IEEE Wireless Communications Letters, 2012, 1, 348-351.	5.0	9
27	EXIT Chart Analysis of Binary Message-Passing Decoders. , 2007, , .		8
28	An Iterative Transfer Matrix Computation Method for Propagation Graphs in Multiroom Environments. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 616-620.	4.0	8
29	Model for the Path Loss of In-Room Reverberant Channels. , 2011, , .		7
30	Estimation of MIMO Channel Capacity from Phase-Noise Impaired Measurements. , 2008, , .		6
31	Exploiting network topology information to mitigate ambiguities in VMP localization. , 2011, , .		5
32	Transfer Function Computation for Complex Indoor Channels Using Propagation Graphs. , 2018, , .		5
33	A Single-Stage Target Tracking Algorithm for Multistatic DVB-T Passive Radar Systems. , 2009, , .		4
34	Modelling Polarimetric Power Delay Spectrum for Indoor Wireless Channels via Propagation Graph Formalism. , 2018, , .		4
35	Wireless indoor positioning relying on observations of received power and mean delay. , 2013, , .		3
36	Propagation graph based model for polarized multiantenna wireless channels. , 2018, , .		3

#	Article	IF	Citations
37	Joint Statistical Modeling of Received Power, Mean Delay, and Delay Spread for Indoor Wideband Radio Channels. , 2020, , .		3
38	Joint Modeling of Received Power, Mean Delay, and Delay Spread for Wideband Radio Channels. IEEE Transactions on Antennas and Propagation, 2021, 69, 4871-4882.	5.1	3
39	On the Impact of TDM in Estimation of MIMO Channel Capacity from Phase-Noise Impaired Measurements. , 2008, , .		2
40	Modelling of UWB antenna perturbed by human phantom in spherical harmonics space. , 2014, , .		2
41	Bayesian ranging for radio localization with and without line-of-sight detection. , 2015, , .		2
42	A General Method for Calibrating Stochastic Radio Channel Models With Kernels. IEEE Transactions on Antennas and Propagation, 2022, 70, 3986-4001.	5.1	2
43	Auto-Generated Summaries for Stochastic Radio Channel Models. , 2021, , .		2
44	Wireless Positioning Based on a Segment-Wise Linear Approach for Modeling the Target Trajectory. , 2008, , .		1
45	Modeling and estimation of the direction-delay power spectrum of the propagation channel. , 2008, , .		1
46	Experimental Characteristics of Indoor Wideband MIMO Radio Channels and their Impact on Stochastic Modelling. , 2009, , .		1
47	Channel measurements and characteristics for cooperative positioning applications. , 2012, , .		1
48	Direct ranging in multi-path channels using OFDM pilot signals. , 2014, , .		1
49	Maximum Likelihood Calibration of Stochastic Multipath Radio Channel Models. IEEE Transactions on Antennas and Propagation, 2021, 69, 4058-4069.	5.1	1
50	Tracking of the multi-dimensional parameters of a target signal using particle filtering. , 2008, , .		0
51	Pilot signal design via constrained optimization with application to delay-Doppler shift estimation in OFDM systems. , 2013, , .		0