

# Benoît Denis

## List of Publications by Year in descending order

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53  
papers

1,010  
citations

1040056

9  
h-index

1199594

12  
g-index

53  
all docs

53  
docs citations

53  
times ranked

757  
citing authors

#	ARTICLE	IF	CITATIONS
1	Radio Localization and Mapping With Reconfigurable Intelligent Surfaces: Challenges, Opportunities, and Research Directions. IEEE Vehicular Technology Magazine, 2020, 15, 52-61.	3.4	153
2	Joint distributed synchronization and positioning in UWB ad hoc networks using TOA. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 1896-1911.	4.6	132
3	Reconfigurable, Intelligent, and Sustainable Wireless Environments for 6G Smart Connectivity. IEEE Communications Magazine, 2021, 59, 99-105.	6.1	113
4	Implicit Cooperative Positioning in Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3964-3980.	8.0	91
5	Wireless Environment as a Service Enabled by Reconfigurable Intelligent Surfaces: The RISE-6G Perspective. , 2021, , .		73
6	ML Time-of-Arrival estimation based on low complexity UWB energy detection. , 2006, , .		48
7	RIS-Enabled Localization Continuity Under Near-Field Conditions. , 2021, , .		30
8	A 1.1nJ/b 802.15.4a-compliant fully integrated UWB transceiver in 0.13µm CMOS. , 2009, , .		29
9	MAC layer design for UWB LDR systems: PULSERS proposal. , 2007, , .		24
10	GML ToA Estimation Based on Low Complexity UWB Energy Detection. , 2006, , .		20
11	Topology Dynamics and Network Architecture Performance in Wireless Body Sensor Networks. , 2011, , .		19
12	Realistic Simulation for Body Area and Body-To-Body Networks. Sensors, 2016, 16, 561.	3.8	19
13	Robust data fusion for cooperative vehicular localization in tunnels. , 2017, , .		19
14	Breaking the Gridlock of Spatial Correlations in GPS-Aided IEEE 802.11p-Based Cooperative Positioning. IEEE Transactions on Vehicular Technology, 2016, 65, 9554-9569.	6.3	18
15	Localization performance in Wireless Body Sensor Networks with beacon enabled MAC and space-time dependent channel model. , 2010, , .		15
16	On-body TOA-based ranging error model for motion capture applications within wearable UWB networks. Journal of Ambient Intelligence and Humanized Computing, 2015, 6, 603-612.	4.9	14
17	A Flexible Distributed Maximum Log-Likelihood Scheme for UWB Indoor Positioning. , 2007, , .		12
18	Localization bound based beamforming optimization for multicarrier mmWave MIMO. , 2017, , .		12

#	ARTICLE	IF	CITATIONS
19	Positioning Data-Rate Trade-Off in mm-Wave Small Cells and Service Differentiation for 5G Networks. , 2018, , .		12
20	Beamwidth Optimization and Resource Partitioning Scheme for Localization Assisted mm-Wave Communication. IEEE Transactions on Communications, 2021, 69, 1358-1374.	7.8	12
21	Short-term link quality estimation for Opportunistic and Mobility Aware Routing in wearable body sensors networks. , 2014, , .		11
22	On communication aspects of particle-based cooperative positioning in GPS-aided VANETs. , 2016, , .		11
23	Cooperative Localization in VANETs: An Experimental Proof-of-Concept Combining GPS, IR-UWB Ranging and V2V Communications. , 2018, , .		10
24	Protecting personal data in IoT platform scenarios through encryption-based selective disclosure. Computer Communications, 2018, 130, 20-37.	5.1	10
25	Bayesian fusion of GNSS, ITS-G5 and IR-UWB data for robust cooperative vehicular localization. Comptes Rendus Physique, 2019, 20, 218-227.	0.9	9
26	Localization and Tracking for LDR-UWB Systems. , 2007, , .		8
27	Localization Optimal Multi-user Beamforming with multi-carrier mmWave MIMO. , 2018, , .		8
28	Joint motion capture and navigation in heterogeneous Body Area Networks with distance estimation over neighborhood graph. , 2013, , .		6
29	Enhanced vehicle positioning in cooperative ITS by joint sensing of passive features. , 2017, , .		6
30	System-level Simulation of Cooperative Sensor Data Fusion Strategies for Improved Vulnerable Road Users Safety. , 2019, , .		6
31	A LDR IR-UWB Demonstration Platform for Services based on Location and Tracking. , 2007, , .		5
32	Location-dependent information extraction for positioning. , 2012, , .		5
33	On-body localization experiments using real IR-UWB devices. , 2014, , .		5
34	Impact of LTE-V2X Connectivity on Global Occupancy Maps in a Cooperative Collision Avoidance (CoCA) System. , 2021, , .		5
35	Overhead and Sensitivity to UWB Ranging Models within a Distributed Bayesian Positioning Solution. , 2007, , .		4
36	Wearable Body-to-Body networks for critical and rescue operations &#x2014; The CROW&lt;sup>2&lt;/sup> project. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
37	Downlink interference analytical predictions under shadowing within irregular multi-cell deployments. , 2015, , .		4
38	Pedestrian Tracking Solution Combining an Impulse Radio Handset Transmitter with an Ankle-Mounted Inertial Measurement Unit. International Journal of Navigation and Observation, 2012, 2012, 1-15.	0.8	3
39	Decentralized Positioning Algorithm for Relative Nodes Localization in Wireless Body Area Networks. Mobile Networks and Applications, 2014, 19, 698-706.	3.3	3
40	Nodes Updates Censoring and Scheduling in Constrained Decentralized Positioning for Large-Scale Motion Capture based on Wireless Body Area Networks. , 2012, , .		3
41	Empirical Modeling of Intra-BAN Ranging Errors Based on IR-UWB TOA Estimation. , 2012, , .		3
42	Improved Navigation Capabilities in Groups of Cooperative Wireless Body Area Networks. , 2014, , .		3
43	Direct path DoA and DoD finding through IR-UWB communications. , 2008, , .		2
44	Random patterns of secret keys from sampled IR-UWB channel responses. , 2014, , .		2
45	Cooperative Group Key Generation Using IR-UWB Multipath Channels. , 2015, , .		2
46	Throughput Characterization and Beamwidth Selection for Positioning-Assisted mmWave Service. , 2018, , .		2
47	Localization and communication resource budgeting for multi-user mm-Wave MIMO. , 2019, , .		2
48	Reciprocity-diversity trade-off in quantization for secret key generation. , 2014, , .		1
49	Public discussion strategies for secret key generation from sampled IR-UWB channel responses. , 2014, , .		1
50	Mobile target localization through low complexity compressed sensing with iterative alternate coordinates projections. , 2017, , .		1
51	Accuracy of Location-Dependent Inter-Cell Interference Stochastic Model with Ranging Errors. , 2015, , .		0
52	Multi-band small-scale fading mitigation at UWB localization receivers in dense multipath channels. , 2017, , .		0
53	Sensing Based Semi-deterministic Inter-Cell Interference Map in Heterogeneous Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 179-191.	0.3	0