

Henk Wymeersch

List of Publications by Year in descending order

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345
papers

11,904
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44042

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docs citations

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times ranked

6309
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-Complexity Downlink Channel Estimation in mmWave Multiple-Input Single-Output Systems. IEEE Wireless Communications Letters, 2022, 11, 518-522.	3.2	10
2	Communication Scheduling by Deep Reinforcement Learning for Remote Traffic State Estimation With Bayesian Inference. IEEE Transactions on Vehicular Technology, 2022, 71, 4287-4300.	3.9	3
3	Learning to Estimate RIS-Aided mmWave Channels. IEEE Wireless Communications Letters, 2022, 11, 841-845.	3.2	15
4	Millimeter-Wave Mobile Sensing and Environment Mapping: Models, Algorithms and Validation. IEEE Transactions on Vehicular Technology, 2022, 71, 3900-3916.	3.9	22
5	Low Complexity Joint Impairment Mitigation of I/Q Modulator and PA Using Neural Networks. IEEE Journal on Selected Areas in Communications, 2022, 40, 54-64.	9.7	10
6	Optimal Spatial Signal Design for mmWave Positioning Under Imperfect Synchronization. IEEE Transactions on Vehicular Technology, 2022, 71, 5558-5563.	3.9	14
7	Benchmarking and Interpreting End-to-End Learning of MIMO and Multi-User Communication. IEEE Transactions on Wireless Communications, 2022, 21, 7287-7298.	6.1	7
8	A Computationally Efficient EK-PMBM Filter for Bistatic mmWave Radio SLAM. IEEE Journal on Selected Areas in Communications, 2022, 40, 2179-2192.	9.7	12
9	Model-Based End-to-End Learning for WDM Systems With Transceiver Hardware Impairments. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-14.	1.9	9
10	Localization via Multiple Reconfigurable Intelligent Surfaces Equipped With Single Receive RF Chains. IEEE Wireless Communications Letters, 2022, 11, 1072-1076.	3.2	30
11	Cooperative Localization in Wireless Sensor Networks With AOA Measurements. IEEE Transactions on Wireless Communications, 2022, 21, 6760-6773.	6.1	16
12	Localization With Distributed MIMO Using a High-Speed Sigma-Delta-Over-Fiber Testbed. IEEE Microwave and Wireless Components Letters, 2022, 32, 923-926.	2.0	0
13	Reconfigurable Intelligent Surfaces: A signal processing perspective with wireless applications. IEEE Signal Processing Magazine, 2022, 39, 135-158.	4.6	152
14	A Tutorial on Terahertz-Band Localization for 6G Communication Systems. IEEE Communications Surveys and Tutorials, 2022, 24, 1780-1815.	24.8	58
15	Cram�r-Rao Bound Analysis of Radars for Extended Vehicular Targets With Known and Unknown Shape. IEEE Transactions on Signal Processing, 2022, 70, 3280-3295.	3.2	5
16	Beyond 5G RIS mmWave Systems: Where Communication and Localization Meet. IEEE Access, 2022, 10, 68075-68084.	2.6	26
17	Periodicity-Enabled Size Reduction of Symbol Based Predistortion for High-Order QAM. Journal of Lightwave Technology, 2022, 40, 6168-6178.	2.7	7
18	mmWave Mapping using PHD with Smoothed Track Confirmation and Multi-Bounce Suppression. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
19	Optimized Switching Between Sensing and Communication for mmWave MU-MISO Systems. , 2022, , .		0
20	Arbitrary Beam Pattern Approximation via RISs with Measured Element Responses. , 2022, , .		11
21	6G Radio Requirements to Support Integrated Communication, Localization, and Sensing. , 2022, , .		9
22	Smart Wireless Environments Enabled by RISs: Deployment Scenarios and Two Key Challenges. , 2022, , .		12
23	Packet Reception Probabilities in Vehicular Communications Close to Intersections. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2823-2833.	4.7	7
24	RadChat: Spectrum Sharing for Automotive Radar Interference Mitigation. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 416-429.	4.7	77
25	Optimizing the mmWave Channel Estimation Duration by Rate Prediction. IEEE Communications Letters, 2021, 25, 555-559.	2.5	1
26	5G Positioning and Mapping With Diffuse Multipath. IEEE Transactions on Wireless Communications, 2021, 20, 1164-1174.	6.1	51
27	5G Synchronization, Positioning, and Mapping From Diffuse Multipath. IEEE Wireless Communications Letters, 2021, 10, 43-47.	3.2	19
28	An Uncertainty-Aware Performance Measure for Multi-Object Tracking. IEEE Signal Processing Letters, 2021, 28, 1689-1693.	2.1	9
29	Convergent Communication, Sensing and Localization in 6G Systems: An Overview of Technologies, Opportunities and Challenges. IEEE Access, 2021, 9, 26902-26925.	2.6	224
30	Power Allocation and Parameter Estimation for Multipath-Based 5G Positioning. IEEE Transactions on Wireless Communications, 2021, 20, 7302-7316.	6.1	15
31	MIMO-OFDM Joint Radar-Communications: Is ICI Friend or Foe?. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1393-1408.	7.3	42
32	5G SLAM with Low-complexity Channel Estimation. , 2021, , .		2
33	High-dimensional Channel Estimation for Simultaneous Localization and Communications. , 2021, , .		12
34	Direction Aided Multipath Channel Estimation for Millimeter Wave Systems. , 2021, , .		1
35	Radar Interference Mitigation through Active Coordination. , 2021, , .		0
36	Position Information From Reflecting Surfaces. IEEE Wireless Communications Letters, 2021, 10, 1300-1304.	3.2	2

#	ARTICLE	IF	CITATIONS
37	Synchronization-Free RadChat for Automotive Radar Interference Mitigation. Sustainability, 2021, 13, 6891.	1.6	2
38	RIS-Aided Joint Localization and Synchronization with a Single-Antenna Mmwave Receiver. , 2021, , .		27
39	Radar Sensing with OTFS: Embracing ISI and ICI to Surpass the Ambiguity Barrier. , 2021, , .		15
40	Near-field Localization with a Reconfigurable Intelligent Surface Acting as Lens. , 2021, , .		61
41	ICI-Aware Parameter Estimation for Mimo-Ofdm Radar via Apes Spatial Filtering. , 2021, , .		6
42	SISO RIS-Enabled Joint 3D Downlink Localization and Synchronization. , 2021, , .		39
43	3D Orientation Estimation with Multiple 5G mmWave Base Stations. , 2021, , .		4
44	Wireless Environment as a Service Enabled by Reconfigurable Intelligent Surfaces: The RISE-6G Perspective. , 2021, , .		73
45	Downlink Single-Snapshot Localization and Mapping With a Single-Antenna Receiver. IEEE Transactions on Wireless Communications, 2021, 20, 4672-4684.	6.1	28
46	Ris-Aided mmWave MIMO Radar System for Adaptive Multi-Target Localization. , 2021, , .		6
47	Leveraging Location Information for RIS-Aided mmWave MIMO Communications. IEEE Wireless Communications Letters, 2021, 10, 1380-1384.	3.2	16
48	Channel Estimation for RIS-Aided mmWave MIMO Systems via Atomic Norm Minimization. IEEE Transactions on Wireless Communications, 2021, 20, 5786-5797.	6.1	123
49	Limited Feedforward Waveform Design for OFDM Dual-Functional Radar-Communications. IEEE Transactions on Signal Processing, 2021, 69, 2955-2970.	3.2	64
50	Semi-Passive 3D Positioning of Multiple RIS-Enabled Users. IEEE Transactions on Vehicular Technology, 2021, 70, 11073-11077.	3.9	26
51	Application of the Free Energy Principle to Estimation and Control. IEEE Transactions on Signal Processing, 2021, 69, 4234-4244.	3.2	3
52	Autoencoder-Based Unequal Error Protection Codes. IEEE Communications Letters, 2021, 25, 3575-3579.	2.5	5
53	End-to-end Autoencoder for Superchannel Transceivers with Hardware Impairment. , 2021, , .		7
54	Over-the-fiber Digital Predistortion Using Reinforcement Learning. , 2021, , .		10

#	ARTICLE	IF	CITATIONS
55	RIS-Enabled Localization Continuity Under Near-Field Conditions. , 2021, , .		30
56	Reconfigurable, Intelligent, and Sustainable Wireless Environments for 6G Smart Connectivity. IEEE Communications Magazine, 2021, 59, 99-105.	4.9	113
57	Connected autonomous vehicles for improving mixed traffic efficiency in unsignalized intersections with deep reinforcement learning. Communications in Transportation Research, 2021, 1, 100017.	4.9	62
58	6G Vision, Value, Use Cases and Technologies From European 6G Flagship Project Hexa-X. IEEE Access, 2021, 9, 160004-160020.	2.6	88
59	Indoor Mapping with a Mobile Radar Using an EK-PHD Filter. , 2021, , .		2
60	Integration of Communication and Sensing in 6G: a Joint Industrial and Academic Perspective. , 2021, , .		62
61	mmWave Simultaneous Localization and Mapping Using a Computationally Efficient EK-PHD Filter. , 2021, , .		6
62	Positioning and Sensing for Vehicular Safety Applications in 5G and Beyond. IEEE Communications Magazine, 2021, 59, 15-21.	4.9	34
63	Next Generation Multitarget Trackers: Random Finite Set Methods vs Transformer-based Deep Learning. , 2021, , .		9
64	Learning Physical-Layer Communication With Quantized Feedback. IEEE Transactions on Communications, 2020, 68, 645-653.	4.9	9
65	Distributed Direct Localization Suitable for Dense Networks. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 1209-1227.	2.6	20
66	Decentralized Poisson Multi-Bernoulli Filtering for Vehicle Tracking. IEEE Access, 2020, 8, 126414-126427.	2.6	17
67	Stepped-Carrier OFDM V2V Resource Allocation for Sensing and Communication Convergence. , 2020, , .		5
68	Simultaneous Localization and Mapping in Millimeter Wave Networks with Angle Measurements. , 2020, , .		0
69	Cooperative Localization with Angular Measurements and Posterior Linearization. , 2020, , .		7
70	Large Intelligent Surface for Positioning in Millimeter Wave MIMO Systems. , 2020, , .		94
71	Adaptive Beamforming Design for mmWave RIS-Aided Joint Localization and Communication. , 2020, , .		94
72	Radio Localization and Mapping With Reconfigurable Intelligent Surfaces: Challenges, Opportunities, and Research Directions. IEEE Vehicular Technology Magazine, 2020, 15, 52-61.	2.8	153

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73	Joint CKF-PHD Filter and Map Fusion for 5G Multi-cell SLAM. , 2020, , .		5
74	5G SLAM Using the Clustering and Assignment Approach with Diffuse Multipath. Sensors, 2020, 20, 4656.	2.1	36
75	A Fisher Information Analysis of Joint Localization and Synchronization in near Field. , 2020, , .		8
76	5G multi-BS Positioning with a Single-Antenna Receiver. , 2020, , .		3
77	Low-Complexity Accurate Mmwave Positioning for Single-Antenna Users Based on Angle-of-Departure and Adaptive Beamforming. , 2020, , .		16
78	Localization Error Bounds for 5G mmWave Systems Under I/Q Imbalance. IEEE Transactions on Vehicular Technology, 2020, 69, 7971-7975.	3.9	12
79	Self-Aware Swarm Navigation in Autonomous Exploration Missions. Proceedings of the IEEE, 2020, 108, 1168-1195.	16.4	33
80	Optimisation-based coordination of connected, automated vehicles at intersections. Vehicle System Dynamics, 2020, 58, 726-747.	2.2	23
81	Single-Anchor Two-Way Localization Bounds for 5G mmWave Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 6388-6400.	3.9	37
82	Adaptive Detection Probability for mmWave 5G SLAM. , 2020, , .		7
83	Pilot Distributions for Joint-Channel Carrier-Phase Estimation in Multichannel Optical Communications. Journal of Lightwave Technology, 2020, 38, 4656-4663.	2.7	6
84	Multi-Panel Sparse Base Station Design With Physical Antenna Effects in Massive MU-MIMO. IEEE Transactions on Vehicular Technology, 2020, 69, 6500-6510.	3.9	13
85	5G mmWave Cooperative Positioning and Mapping Using Multi-Model PHD Filter and Map Fusion. IEEE Transactions on Wireless Communications, 2020, 19, 3782-3795.	6.1	86
86	Optimization of Transmitter-Side Signal Rotations in the Presence of Laser Phase Noise. Journal of Lightwave Technology, 2020, 38, 3850-3858.	2.7	0
87	Performance Analysis for Autonomous Vehicle 5g-Assisted Positioning in GNSS-Challenged Environments. , 2020, , .		11
88	Tensor Decomposition-based Beamspace Esprit Algorithm for Multidimensional Harmonic Retrieval. , 2020, , .		13
89	Radar Interference Mitigation for Automated Driving: Exploring Proactive Strategies. IEEE Signal Processing Magazine, 2020, 37, 72-84.	4.6	70
90	Low-Complexity 5g Slam with CKF-PHD Filter. , 2020, , .		8

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91	Comparison of Automotive FMCW and OFDM Radar Under Interference. , 2020, , .		12
92	Residual Neural Networks for Digital Predistortion. , 2020, , .		18
93	Can Automotive Radars Form Vehicular Networks?. , 2020, , .		1
94	Distributed Radar-aided Vehicle-to-Vehicle Communication. , 2020, , .		9
95	High-Accuracy Joint Position and Orientation Estimation in Sparse 5G mmWave Channel. , 2019, , .		17
96	On the Performance of Joint-Core Carrier-Phase Estimation in the Presence of Intercore Skew. Journal of Lightwave Technology, 2019, 37, 5291-5298.	2.7	0
97	Millimeter-Wave Downlink Positioning With a Single-Antenna Receiver. IEEE Transactions on Wireless Communications, 2019, 18, 4479-4490.	6.1	55
98	Tracking Position and Orientation Through Millimeter Wave Lens MIMO in 5G Systems. IEEE Signal Processing Letters, 2019, 26, 1222-1226.	2.1	20
99	Fast in-Band Position-Aided Beam Selection in Millimeter-Wave MIMO. IEEE Access, 2019, 7, 142325-142338.	2.6	9
100	Multisensor Poisson Multi-Bernoulli Filter for Joint Targetâ€“Sensor State Tracking. IEEE Transactions on Intelligent Vehicles, 2019, 4, 609-621.	9.4	25
101	Radar Communications for Combating Mutual Interference of FMCW Radars. , 2019, , .		27
102	Massive MIMO is a realityâ€“What is next?. , 2019, 94, 3-20.		417
103	Guest Editorial: Introduction to the Special Section on Machine Learning-Based Internet of Vehicles: Theory, Methodology, and Applications. IEEE Transactions on Vehicular Technology, 2019, 68, 4105-4109.	3.9	8
104	A survey on 5G massive MIMO localization. , 2019, 94, 21-28.		74
105	Theoretical Limits on Cooperative Positioning in Mixed Traffic. IEEE Access, 2019, 7, 49712-49725.	2.6	7
106	Decentralized Scheduling for Cooperative Localization With Deep Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2019, 68, 4295-4305.	3.9	27
107	Iterative Detection and Phase-Noise Compensation for Coded Multichannel Optical Transmission. IEEE Transactions on Communications, 2019, 67, 5532-5543.	4.9	4
108	5G Downlink Multi-Beam Signal Design for LOS Positioning. , 2019, , .		11

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109	Timer-Based Distributed Channel Access in Networked Control Systems over Known and Unknown Gilbert-Elliott Channels. , 2019, , .		6
110	Localization and communication resource budgeting for multi-user mm-Wave MIMO. , 2019, , .		2
111	Robust trajectory planning of autonomous vehicles at intersections with communication impairments. , 2019, , .		16
112	Timer-Based Distributed Channel Access for Control Over Unknown Unreliable Time-Varying Communication Channels. , 2019, , .		4
113	Localization and Throughput Trade-Off in a Multi-User Multi-Carrier mm-Wave System. IEEE Access, 2019, 7, 167099-167112.	2.6	8
114	Pilot-Aided Joint-Channel Carrier-Phase Estimation in Space-Division Multiplexed Multicore Fiber Transmission. Journal of Lightwave Technology, 2019, 37, 1133-1142.	2.7	9
115	Harnessing NLOS Components for Position and Orientation Estimation in 5G Millimeter Wave MIMO. IEEE Transactions on Wireless Communications, 2019, 18, 93-107.	6.1	103
116	A Timer-Based Distributed Channel Access Mechanism in Networked Control Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 652-656.	2.2	11
117	Delay-Accuracy Tradeoff in Opportunistic Time-of-Arrival Localization. IEEE Signal Processing Letters, 2018, 25, 763-767.	2.1	3
118	Location-Aided Pilot Contamination Avoidance for Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2018, 17, 2662-2674.	6.1	43
119	Position and Orientation Estimation Through Millimeter-Wave MIMO in 5G Systems. IEEE Transactions on Wireless Communications, 2018, 17, 1822-1835.	6.1	349
120	A novel approach for ellipsoidal outer-approximation of the intersection region of ellipses in the plane. Computational Optimization and Applications, 2018, 69, 383-402.	0.9	0
121	Synchronization and Localization in Wireless Networks. Foundations and Trends in Signal Processing, 2018, 12, 1-106.	12.0	19
122	Implicit Cooperative Positioning in Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3964-3980.	4.7	91
123	Channel Prediction With Location Uncertainty for Ad Hoc Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2018, 4, 349-361.	1.6	4
124	Optimal Scheduling of Downlink Communication for a Multi-Agent System With a Central Observation Post. , 2018, 2, 37-42.		16
125	Buffer-Aided Model Predictive Controller to Mitigate Model Mismatches and Localization Errors. IEEE Transactions on Intelligent Vehicles, 2018, 3, 501-510.	9.4	4
126	Tensor Decomposition Based Beamspace ESPRIT for Millimeter Wave MIMO Channel Estimation. , 2018, , .		14

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127	Performance Analysis of Hybrid 5G-GNSS Localization. , 2018, , .		14
128	5G mm Wave Downlink Vehicular Positioning. , 2018, , .		34
129	Joint Localization and Mapping Through Millimeter Wave MIMO in 5G Systems. , 2018, , .		33
130	Impact of Communication Frequency on Remote Control of Automated Vehicles. , 2018, , .		3
131	Impact of Rough Surface Scattering on Stochastic Multipath Component Models. , 2018, , .		7
132	Multiple Target Tracking With Uncertain Sensor State Applied To Autonomous Vehicle Data. , 2018, , .		4
133	Novel Solution for Multi-connectivity 5G-mmW Positioning. , 2018, , .		4
134	5G mmWave Vehicular Tracking. , 2018, , .		18
135	Improved Pedestrian Detection under Mutual Interference by FMCW Radar Communications. , 2018, , .		5
136	Joint Phase Tracking for Multicore Transmission with Correlated Phase Noise. , 2018, , .		1
137	Distributed Two-Way Localization Bounds for 5G mmWave Systems. , 2018, , .		8
138	Toward a Standard-Compliant Implementation for Consensus Algorithms in Vehicular Networks. , 2018, , .		4
139	Collision-Aware Communication for Intersection Management of Automated Vehicles. IEEE Access, 2018, 6, 77359-77371.	2.6	14
140	Localization Optimal Multi-user Beamforming with multi-carrier mmWave MIMO. , 2018, , .		8
141	Achievable Information Rates for Nonlinear Fiber Communication via End-to-end Autoencoder Learning. , 2018, , .		45
142	Optimal Precoders for Tracking the AoD and AoA of a mmWave Path. IEEE Transactions on Signal Processing, 2018, 66, 5718-5729.	3.2	40
143	Improved Lower Bounds on Mutual Information Accounting for Nonlinear Signalâ€“Noise Interaction. Journal of Lightwave Technology, 2018, 36, 5152-5159.	2.7	4
144	Collaborative Sensor Network Localization: Algorithms and Practical Issues. Proceedings of the IEEE, 2018, 106, 1089-1114.	16.4	153

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145	Transmitter Beam Selection in Millimeter-Wave MIMO With In-Band Position-Aiding. IEEE Transactions on Wireless Communications, 2018, 17, 6082-6092.	6.1	10
146	Error Bounds for Uplink and Downlink 3D Localization in 5G Millimeter Wave Systems. IEEE Transactions on Wireless Communications, 2018, 17, 4939-4954.	6.1	142
147	Remote control of automated vehicles over unreliable channels. , 2018, , .		13
148	Performance of location and orientation estimation in 5G mmWave systems: Uplink vs downlink. , 2018, , .		15
149	Impact of imperfect beam alignment on the rate-positioning trade-off. , 2018, , .		6
150	Beyond GNSS: Highly accurate localization for cooperative-intelligent transport systems. , 2018, , .		14
151	Cooperative localization of vehicles without inter-vehicle measurements. , 2018, , .		10
152	Traffic coordination at road intersections: Autonomous decision-making algorithms using model-based heuristics. IEEE Intelligent Transportation Systems Magazine, 2017, 9, 8-21.	2.6	77
153	Joint Assignment of Power, Routing, and Spectrum in Static Flexible-Grid Networks. Journal of Lightwave Technology, 2017, 35, 1766-1774.	2.7	27
154	Direct Localization for Massive MIMO. IEEE Transactions on Signal Processing, 2017, 65, 2475-2487.	3.2	261
155	Cooperative Simultaneous Localization and Synchronization in Mobile Agent Networks. IEEE Transactions on Signal Processing, 2017, 65, 3587-3602.	3.2	52
156	Formation Control of Multi-Agent Systems with Location Uncertainty. , 2017, , 197-215.		0
157	MULTI-POS: Lessons Learnt from Fellows and Supervisors. , 2017, , 323-329.		1
158	Introduction and Book Structure. , 2017, , 1-4.		0
159	Power Allocation for OFDM Wireless Network Localization Under Expectation and Robustness Constraints. IEEE Transactions on Wireless Communications, 2017, 16, 2027-2038.	6.1	10
160	Variational Inference-Based Positioning with Nondeterministic Measurement Accuracies and Reference Location Errors. IEEE Transactions on Mobile Computing, 2017, 16, 2955-2969.	3.9	24
161	Network traffic flow optimization under performance constraints. Transportation Research Part C: Emerging Technologies, 2017, 83, 120-133.	3.9	25
162	A comparison of Bayesian localization methods in the presence of outliers. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
163	Machine learning under the spotlight. Nature Photonics, 2017, 11, 749-751.	15.6	44
164	On the trade-off between positioning and data rate for mm-wave communication. , 2017, , .		40
165	Compressed Sensing in Wireless Sensor Networks Without Explicit Position Information. IEEE Transactions on Signal and Information Processing Over Networks, 2017, 3, 404-415.	1.6	4
166	5G mmWave Positioning for Vehicular Networks. IEEE Wireless Communications, 2017, 24, 80-86.	6.6	312
167	An Asynchronous Algorithm for Optimal Vehicle Coordination at Traffic Intersections * *This work was supported by Copplar (project number 32226302), the Swedish Research Council (VR, grant number) Tj ETQq1,10.784314 rgBT IFAC-PapersOnLine, 2017, 50, 12008-12014.	0.5	5
168	Traffic flow optimization with QoS constrained network admission control * *This research is supported by Chalmersâ€™ initiatives in transport research, the Transport Area of Advance at Chalmers University of Technology and SAFER (Vehicle and Traffic Safety Centre) and by the National Research, Development and Innovation Office of Hungary - NKFIH through grant No. 115694.. IFAC-PapersOnLine, 2017, 50, 5275-5280.	0.5	1
169	Pilot Distributions for Phase Tracking in Space-Division Multiplexed Systems. , 2017, , .		5
170	Predictive resource allocation evaluation with real channel measurements. , 2017, , .		3
171	Robust Location-Aided Beam Alignment in Millimeter Wave Massive MIMO. , 2017, , .		48
172	Enhanced vehicle positioning in cooperative ITS by joint sensing of passive features. , 2017, , .		6
173	Distributed channel prediction for multi-agent systems. , 2017, , .		1
174	On the resource allocation problem in wireless networked control systems. , 2017, , .		17
175	Fine-Grained vs. Average Reliability for V2V Communications around Intersections. , 2017, , .		11
176	Comparison of different beamtraining strategies from a rate-positioning trade-off perspective. , 2017, , .		13
177	Novel Algorithms for High-Accuracy Joint Position and Orientation Estimation in 5G mmWave Systems. , 2017, , .		32
178	Phase-Noise Compensation for Spatial-Division Multiplexed Transmission. , 2017, , .		5
179	Multiple access control in wireless networks. , 2016, , 435-465.		4
180	Random-Phase Beamforming for Initial Access in Millimeter-Wave Cellular Networks. , 2016, , .		6

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181	LAPRA: Location-Aware Proactive Resource Allocation. , 2016, , .		5
182	Vehicle-to-Vehicle Communications with Urban Intersection Path Loss Models. , 2016, , .		33
183	Channel gain prediction for multi-agent networks in the presence of location uncertainty. , 2016, , .		4
184	Stochastic Digital Backpropagation With Residual Memory Compensation. Journal of Lightwave Technology, 2016, 34, 566-572.	2.7	10
185	Location-aided mm-wave channel estimation for vehicular communication. , 2016, , .		92
186	Coordination of Cooperative Autonomous Vehicles: Toward safer and more efficient road transportation. IEEE Signal Processing Magazine, 2016, 33, 74-84.	4.6	97
187	Blind sub-Nyquist GNSS signal detection. , 2016, , .		2
188	Back-Pressure Traffic Signal Control With Fixed and Adaptive Routing for Urban Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2134-2143.	4.7	79
189	Target Tracking in Confined Environments With Uncertain Sensor Positions. IEEE Transactions on Vehicular Technology, 2016, 65, 870-882.	3.9	57
190	Distributed Localization and Tracking of Mobile Networks Including Noncooperative Objects. IEEE Transactions on Signal and Information Processing Over Networks, 2016, 2, 57-71.	1.6	117
191	Spatial Wireless Channel Prediction under Location Uncertainty. IEEE Transactions on Wireless Communications, 2016, 15, 1031-1044.	6.1	83
192	Tight Two-Dimensional Outer-Approximations of Feasible Sets in Wireless Sensor Networks. IEEE Communications Letters, 2016, 20, 570-573.	2.5	3
193	Sensitivity Comparison of Time Domain Hybrid Modulation and Rate Adaptive Coding. , 2016, , .		5
194	Location-Aware Formation Control in Swarm Navigation. , 2015, , .		8
195	Robust power allocation for OFDM wireless network localization. , 2015, , .		6
196	Location-Aided Pilot Contamination Elimination for Massive MIMO Systems. , 2015, , .		17
197	Joint scheduling and localization in UWB networks. , 2015, , .		3
198	On proactive caching with demand and channel uncertainties. , 2015, , .		12

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199	An approximate solution to the optimal coordination problem for autonomous vehicles at intersections. , 2015, , .		58
200	On the separation of timescales in radio-based positioning. , 2015, , .		3
201	5G Position and Orientation Estimation through Millimeter Wave MIMO. , 2015, , .		86
202	Distributed Estimation With Information-Seeking Control in Agent Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 2439-2456.	9.7	49
203	A Stochastic Geometry Model for Vehicular Communication near Intersections. , 2015, , .		44
204	Hybrid Cooperative Positioning in Harsh Environments. , 2015, , .		0
205	Resource Allocation for Flexible-Grid Optical Networks With Nonlinear Channel Model [Invited]. Journal of Optical Communications and Networking, 2015, 7, B101.	3.3	48
206	Traffic-adaptive signal control and vehicle routing using a decentralized back-pressure method. , 2015, , .		13
207	Guest Editorial Location-Awareness for Radios and Networks, Part II. IEEE Journal on Selected Areas in Communications, 2015, 33, 2269-2271.	9.7	1
208	Backward particle message passing. , 2015, , .		2
209	Power optimization in nonlinear flexible-grid optical networks. , 2015, , .		1
210	Cooperative Intersection Collision Avoidance in a Constrained Communication Environment. , 2015, , .		3
211	Code rate optimization in elastic optical networks. , 2015, , .		5
212	On geometric upper bounds for positioning algorithms in wireless sensor networks. Signal Processing, 2015, 111, 179-193.	2.1	9
213	Guest Editorial Location-Awareness for Radios and Networks, Part I. IEEE Journal on Selected Areas in Communications, 2015, 33, 1285-1287.	9.7	3
214	Challenges for cooperative ITS: Improving road safety through the integration of wireless communications, control, and positioning. , 2015, , .		24
215	Link-Level Resource Allocation for Flexible-Grid Nonlinear Fiber-Optic Communication Systems. IEEE Photonics Technology Letters, 2015, 27, 1250-1253.	1.3	31
216	Nonlinear Impairment Aware Resource Allocation in Elastic Optical Networks. , 2015, , .		16

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217	Cooperative localization with information-seeking control. , 2015, , .		1
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