Sinem Coleri Ergen

List of Publications by Year
in descending order

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116 papers	4,980 citations	236925 25 h-index	123424 61 g-index
116 all docs	116 docs citations	116 times ranked	4227 citing authors

#	Article	IF	Citations
1	Minimum Length Scheduling for Discrete-Rate Full-Duplex Wireless Powered Communication Networks. IEEE Transactions on Wireless Communications, 2022, 21, 135-148.	9.2	6
2	Wireless Channel Modeling Based on Extreme Value Theory for Ultra-Reliable Communications. IEEE Transactions on Wireless Communications, 2022, 21, 1064-1076.	9.2	8
3	Federated Learning for Channel Estimation in Conventional and RIS-Assisted Massive MIMO. IEEE Transactions on Wireless Communications, 2022, 21, 4255-4268.	9.2	49
4	Extreme Value Theory Based Rate Selection for Ultra-Reliable Communications. IEEE Transactions on Vehicular Technology, 2022, 71, 6727-6731.	6.3	2
5	Measurement Based Non-Line-of-Sight Vehicular Visible Light Communication Channel Characterization. IEEE Transactions on Vehicular Technology, 2022, 71, 10110-10114.	6.3	14
6	A Hybrid Architecture for Federated and Centralized Learning. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 1529-1542.	7.9	12
7	Incorporation of Confidence Interval into Rate Selection Based on the Extreme Value Theory for Ultra-Reliable Communications. , 2022, , .		0
8	Vehicular Visible Light Communications Noise Analysis and Autoencoder Based Denoising. , 2022, , .		3
9	mmWave channel model for intra-vehicular wireless sensor networks. Ad Hoc Networks, 2022, 135, 102932.	5.5	4
10	Empirical Feasibility Analysis for Energy Harvesting Intravehicular Wireless Sensor Networks. IEEE Internet of Things Journal, 2021, 8, 179-186.	8.7	6
11	Throughput maximization in discrete rate based full duplex wireless powered communication networks^{â€}. Internet Technology Letters, 2021, 4, e206.	1.9	2
12	Machine Learning Based Channel Modeling for Vehicular Visible Light Communication. IEEE Transactions on Vehicular Technology, 2021, 70, 9659-9672.	6.3	31
13	Optimal Power Control, Scheduling, and Energy Harvesting for Wireless Networked Control Systems. IEEE Transactions on Communications, 2021, 69, 1789-1801.	7.8	6
14	Visible Light Communication Based Vehicle Localization for Collision Avoidance and Platooning. IEEE Transactions on Vehicular Technology, 2021, 70, 2167-2180.	6.3	20
15	Effect of Downlink Energy Transfer Scheduling on SDMA and TDMA Uplink Transmission. , 2021, , .		0
16	Federated Dropout Learning for Hybrid Beamforming with Spatial Path Index Modulation in Multi-User Mmwave-Mimo Systems. , 2021, , .		1
17	Non-Stationary Wireless Channel Modeling Approach Based on Extreme Value Theory for Ultra-Reliable Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 8264-8268.	6.3	5
18	Relay Selection and Throughput Maximization for Full Duplex Wireless Powered Cooperative Communication Networks. , 2021, , .		2

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19	Minimum Length Scheduling for Multi-Cell Full Duplex Wireless Powered Communication Networks. Sensors, 2021, 21, 6599.	3.8	2
20	Hybrid Federated and Centralized Learning. , 2021, , .		9
21	Deep Neural Network based Minimum Length Scheduling in Wireless Powered Communication Networks. , 2021, , .		1
22	Uplink/downlink decoupled energy efficient user association in heterogeneous cloud radio access networks. Ad Hoc Networks, 2020, 97, 102016.	5.5	9
23	A Low-SWaP, Low-Cost Transceiver for Physically Secure UAV Communication with Visible Light. Lecture Notes in Networks and Systems, 2020, , 355-364.	0.7	2
24	Joint Optimization of Energy Transfer Scheduling and Power Control in MIMO Wireless Powered Communication Networks. IEEE Communications Letters, 2020, 24, 593-597.	4.1	6
25	Relay Selection, Scheduling, and Power Control in Wireless-Powered Cooperative Communication Networks. IEEE Transactions on Wireless Communications, 2020, 19, 7181-7195.	9.2	16
26	Minimum Length Scheduling for Full Duplex Time-Critical Wireless Powered Communication Networks. IEEE Transactions on Wireless Communications, 2020, 19, 5993-6006.	9.2	16
27	Distributed Deep Reinforcement Learning with Wideband Sensing for Dynamic Spectrum Access. , 2020, , .		4
28	Throughput Maximization for Full Duplex Wireless Powered Communication Networks. , 2020, , .		6
29	Federated Learning for Hybrid Beamforming in mm-Wave Massive MIMO. IEEE Communications Letters, 2020, 24, 2795-2799.	4.1	43
30	Optimization of Full-Duplex Relaying System With Non-Linear Energy Harvester. IEEE Access, 2020, 8, 201566-201576.	4.2	14
31	Optimal On-Off Transmission Schemes for Full Duplex Wireless Powered Communication Networks. , 2020, , .		3
32	Minimum Length Scheduling for Multi-Cell Wireless Powered Communication Networks. , 2020, , .		1
33	Energy efficient robust scheduling of periodic sensor packets for discrete rate based wireless networked control systems. Ad Hoc Networks, 2020, 106, 102203.	5.5	7
34	Index-Based Channel Hopping for Multi-Rendezvous Multi-Channel MAC. IEEE Communications Letters, 2020, 24, 1231-1235.	4.1	1
35	Multi-Connectivity Based Uplink/Downlink Decoupled Energy Efficient User Association in 5G Heterogenous CRAN. IEEE Communications Letters, 2020, 24, 858-862.	4.1	16
36	Minimum Length Scheduling for Wireless Powered Communication Networks with Discrete Rates. , 2020, , .		0

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37	Scheduling and Relay Selection for Full-Duplex Wireless Powered Cooperative Communication Networks. , 2020, , .		1
38	Total Transmission Time Minimization Through Relay Selection for Full-Duplex Wireless Powered Cooperative Communication Networks. Lecture Notes in Computer Science, 2020, , 257-268.	1.3	3
39	A Performance Comparison of Single-Radio Multi-Channel Medium Access Control Protocols. , 2020, , .		0
40	Guest Editorial Special Issue on Toward Securing Internet of Connected Vehicles (IoV) From Virtual Vehicle Hijacking. IEEE Internet of Things Journal, 2019, 6, 5866-5869.	8.7	2
41	Visible Light Communications in Industrial Internet of Things (IIoT). Computer Communications and Networks, 2019, , 163-191.	0.8	8
42	Power Efficient Beam-Forming Algorithm for Ultra-Reliable Low Latency Millimeter-Wave Communications. , 2019, , .		1
43	Optimal Power Control and Scheduling for Energy Harvesting Wireless Networked Control Systems. , 2019, , .		1
44	QoS-Constrained Semi-Persistent Scheduling of Machine-Type Communications in Cellular Networks. IEEE Transactions on Wireless Communications, 2019, 18, 2737-2750.	9.2	18
45	Minimum Length Scheduling for Power Constrained Harvest-then-Transmit Communication Networks. , 2019, , .		6
46	Location-Aware Adaptive Physical Layer Design for Vehicular Visible Light Communication. , 2019, , .		3
47	Visible Light and mmWave Propagation Channel Comparison for Vehicular Communications. , 2019, , .		4
48	Power Efficient Communication Interface Selection in Cellular Vehicle to Everything Networks. , 2019, , .		3
49	Vehicular Visible Light Positioning with a Single Receiver. , 2019, , .		5
50	Scheduling of Energy Harvesting for MIMO Wireless Powered Communication Networks. IEEE Communications Letters, 2019, 23, 152-155.	4.1	22
51	Minimum Length Scheduling for Discrete Rate Based Full Duplex Wireless Powered Communication Networks. Lecture Notes in Computer Science, 2019, , 343-354.	1.3	5
52	Cooperative MIMO-OFDM based inter-vehicular visible light communication using brake lights. Computer Communications, 2018, 120, 138-146.	5.1	22
53	Wireless Network Design for Control Systems: A Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 978-1013.	39.4	303
54	Directional MAC protocol for IEEE 802.11ad based wireless local area networks. Ad Hoc Networks, 2018, 69, 49-64.	5.5	19

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55	SC-FDE Based MIMO Uplink Transmission Over Infrared Communication Channels. , 2018, , .		3
56	Pilot-Aided Channel Estimation on SC-PAM Based Visible Light Communications. , 2018, , .		2
57	Vehicular VLC Frequency Domain Channel Sounding and Characterization. , 2018, , .		20
58	Poster: Vehicular VLC Experimental Modulation Performance Comparison. , 2018, , .		1
59	Multiplicity Estimating Random Access Protocol for Resource Efficiency in Contention based NOMA. , 2018, , .		4
60	IEEE 802.11p and Visible Light Hybrid Communication Based Secure Autonomous Platoon. IEEE Transactions on Vehicular Technology, 2018, 67, 8667-8681.	6.3	90
61	Data-driven anomaly detection in autonomous platoon. , 2018, , .		0
62	Joint Optimization of Wireless Network Energy Consumption and Control System Performance in Wireless Networked Control Systems. IEEE Transactions on Wireless Communications, 2017, 16, 2235-2248.	9.2	28
63	Security vulnerabilities of autonomous platoons. , 2017, , .		3
64	Distributed Medium Access Control Protocol for Successive Interference Cancellation-Based Wireless Ad Hoc Networks. IEEE Communications Letters, 2017, 21, 354-357.	4.1	15
65	Visible light communication assisted safety message dissemination in multiplatoon. , 2017, , .		2
66	Data-driven abnormal behavior detection for autonomous platoon. , 2017, , .		17
67	Intravehicular Energy-Harvesting Wireless Networks: Reducing Costs and Emissions. IEEE Vehicular Technology Magazine, 2017, 12, 77-85.	3.4	8
68	Dimming support for visible light communication in intelligent transportation and traffic system. , 2016, , .		9
69	On the Performance of MIMO OFDM-Based Intra-Vehicular VLC Networks. , 2016, , .		8
70	Poster: On-board camera video transmission over vehicular VLC. , 2016, , .		5
71	Physical Layer Implementation of Standard Compliant Vehicular VLC. , 2016, , .		20
72	Broadcasting brake lights with MIMO-OFDM based vehicular VLC. , 2016, , .		6

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73	Security vulnerabilities of IEEE 802.11p and visible light communication based platoon. , 2016, , .		32
74	Visible light communication in vehicular ad-hoc networks. , 2016, , .		4
75	ARIMA-based time variation model for beneath the chassis UWB channel. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, .	2.4	10
76	Towards ultra-reliable M2M communication: Scheduling policies in fading channels. , 2016, , .		3
77	Multihop-Cluster-Based IEEE 802.11p and LTE Hybrid Architecture for VANET Safety Message Dissemination. IEEE Transactions on Vehicular Technology, 2016, 65, 2621-2636.	6.3	389
78	Optimal Power Control and Rate Adaptation for Ultra-Reliable M2M Control Applications. , 2015, , .		8
79	Scheduling in Successive Interference Cancellation Based Wireless Ad Hoc Networks. IEEE Communications Letters, 2015, 19, 1524-1527.	4.1	12
80	Dual channel visible light communications for enhanced vehicular connectivity. , 2015, , .		16
81	Energy and Delay Constrained Maximum Adaptive Schedule for Wireless Networked Control Systems. IEEE Transactions on Wireless Communications, 2015, 14, 3738-3751.	9.2	29
82	Joint optimization of communication and controller components of wireless networked control systems. , 2015, , .		4
83	Efficient network level beamforming training for IEEE 802.11ad WLANs. , 2015, , .		8
84	Vehicle Mobility and Communication Channel Models for Realistic and Efficient Highway VANET Simulation. IEEE Transactions on Vehicular Technology, 2015, 64, 248-262.	6.3	141
85	Minimum Energy Data Transmission for Wireless Networked Control Systems. IEEE Transactions on Wireless Communications, 2014, 13, 2163-2175.	9.2	45
86	RSSI-Fingerprinting-Based Mobile Phone Localization With Route Constraints. IEEE Transactions on Vehicular Technology, 2014, 63, 423-428.	6.3	79
87	Scheduling in Single-Hop Multiple Access Wireless Networks with Successive Interference Cancellation. IEEE Wireless Communications Letters, 2014, 3, 197-200.	5.0	46
88	Engine Compartment UWB Channel Model for Intravehicular Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2014, 63, 2497-2505.	6.3	29
89	Minimum Length Scheduling With Packet Traffic Demands in Wireless <italic>Ad Hoc</italic> Networks. IEEE Transactions on Wireless Communications, 2014, 13, 3738-3751.	9.2	17
90	VeSCA: Vehicular stable cluster-based data aggregation. , 2014, , .		8

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91	VMaSC: Vehicular multi-hop algorithm for stable clustering in Vehicular Ad Hoc Networks. , 2013, , .		67
92	VANET topology characteristics under realistic mobility and channel models. , 2013, , .		30
93	Analysis and optimization of duty-cycle in preamble-based random access networks. Wireless Networks, 2013, 19, 1691-1707.	3.0	5
94	Ultra-wideband Channel Model for Intra-vehicular Wireless Sensor Networks Beneath the Chassis: From Statistical Model to Simulations. IEEE Transactions on Vehicular Technology, 2013, 62, 14-25.	6.3	62
95	Delay constrained energy minimization in UWB wireless networks. , 2013, , .		0
96	Optimal Power Control, Rate Adaptation, and Scheduling for UWB-Based Intravehicular Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2013, 62, 219-234.	6.3	82
97	Duty-cycle optimization for IEEE 802.15.4 wireless sensor networks. ACM Transactions on Sensor Networks, 2013, 10, 1-32.	3.6	35
98	Analysis of distributed algorithms for density estimation in VANETs (Poster). , 2012, , .		10
99	Ultra-Wideband channel model for intra-vehicular wireless sensor networks. , 2012, , .		13
100	Spatio-temporal characteristics of link quality in wireless sensor networks. , 2012, , .		16
101	Fast Scheduling for Delay Minimization in UWB Wireless Networks. IEEE Communications Letters, 2012, 16, 1400-1403.	4.1	3
102	TDMA scheduling algorithms for wireless sensor networks. Wireless Networks, 2010, 16, 985-997.	3.0	296
103	MAC Protocol Engine for Sensor Networks. , 2009, , .		10
104	The Tire as an Intelligent Sensor. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2009, 28, 941-955.	2.7	78
105	Distributed Online Simultaneous Fault Detection for Multiple Sensors. , 2008, , .		31
106	Performance Analysis of Slotted Carrier Sense IEEE 802.15.4 Medium Access Layer. IEEE Transactions on Wireless Communications, 2008, 7, 3359-3371.	9.2	333
107	Duty-Cycle Optimization in Unslotted 802.15.4 Wireless Sensor Networks. , 2008, , .		15
108	Performance Analysis of Slotted Carrier Sense IEEE 802.15.4 Acknowledged Uplink Transmissions. , 2008, , .		31

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109	Energy efficient routing with delay guarantee for sensor networks. Wireless Networks, 2007, 13, 679-690.	3.0	85
110	PEDAMACS: power efficient and delay aware medium access protocol for sensor networks. IEEE Transactions on Mobile Computing, 2006, 5, 920-930.	5.8	225
111	Optimal Placement of Relay Nodes for Energy Efficiency in Sensor Networks. , 2006, , .		51
112	Effects of A-D conversion nonidealities on distributed sampling in dense sensor networks. , 2006, , .		1
113	On multi-hop routing for energy efficiency. IEEE Communications Letters, 2005, 9, 880-881.	4.1	60
114	Traffic Measurement and Vehicle Classification with Single Magnetic Sensor. Transportation Research Record, 2005, 1917, 173-181.	1.9	103
115	Qos aware adaptive resource allocation techniques for fair scheduling in ofdma based broadband wireless access systems. IEEE Transactions on Broadcasting, 2003, 49, 362-370.	3.2	259
116	Channel estimation techniques based on pilot arrangement in OFDM systems. IEEE Transactions on Broadcasting, 2002, 48, 223-229.	3.2	1,205