

Deepak Mishra

List of Publications by Year in descending order

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137
papers

1,792
citations

393982

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141
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141
docs citations

141
times ranked

1645
citing authors

#	ARTICLE	IF	CITATIONS
1	Channel Estimation and Low-complexity Beamforming Design for Passive Intelligent Surface Assisted MISO Wireless Energy Transfer. , 2019, , .		348
2	Smart RF energy harvesting communications: challenges and opportunities. , 2015, 53, 70-78.		171
3	Optimal Channel Estimation for Reciprocity-Based Backscattering With a Full-Duplex MIMO Reader. IEEE Transactions on Signal Processing, 2019, 67, 1662-1677.	3.2	66
4	Joint Optimization Schemes for Cooperative Wireless Information and Power Transfer Over Rician Channels. IEEE Transactions on Communications, 2016, 64, 554-571.	4.9	55
5	Dilemma at RF Energy Harvesting Relay: Downlink Energy Relaying or Uplink Information Transfer?. IEEE Transactions on Wireless Communications, 2017, 16, 4939-4955.	6.1	47
6	Energy Sustainable IoT With Individual QoS Constraints Through MISO SWIPT Multicasting. IEEE Internet of Things Journal, 2018, 5, 2856-2867.	5.5	47
7	Ultrasound Image Enhancement Using Structure Oriented Adversarial Network. IEEE Signal Processing Letters, 2018, 25, 1349-1353.	2.1	42
8	Charging Time Characterization for Wireless RF Energy Transfer. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 362-366.	2.2	40
9	Sum Throughput Maximization in Multi-Tag Backscattering to Multiantenna Reader. IEEE Transactions on Communications, 2019, 67, 5689-5705.	4.9	38
10	Multi-Tag Backscattering to MIMO Reader: Channel Estimation and Throughput Fairness. IEEE Transactions on Wireless Communications, 2019, 18, 5584-5599.	6.1	33
11	Experimental demonstration of multi-hop RF energy transfer. , 2013, , .		30
12	Optimal Relay Placement in Two-Hop RF Energy Transfer. IEEE Transactions on Communications, 2015, 63, 1635-1647.	4.9	29
13	Transmit Precoding and Receive Power Splitting for Harvested Power Maximization in MIMO SWIPT Systems. IEEE Transactions on Green Communications and Networking, 2018, 2, 774-786.	3.5	27
14	Low-Cost Wake-Up Receiver for RF Energy Harvesting Wireless Sensor Networks. IEEE Sensors Journal, 2016, 16, 6270-6278.	2.4	26
15	2^2 RES: Integrated Information Relay and Energy Supply Assisted RF Harvesting Communication. IEEE Transactions on Communications, 2017, 65, 1274-1288.	4.9	23
16	Cooperative NOMA With Incremental Relaying: Performance Analysis and Optimization. IEEE Transactions on Vehicular Technology, 2018, 67, 11291-11295.	3.9	22
17	Jointly Optimal Spatial Channel Assignment and Power Allocation for MIMO SWIPT Systems. IEEE Wireless Communications Letters, 2018, 7, 214-217.	3.2	21
18	Optimal Designs for Relay-Assisted NOMA Networks With Hybrid SWIPT Scheme. IEEE Transactions on Communications, 2020, 68, 3588-3601.	4.9	21

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19	Trajectory Design for Throughput Maximization in UAV-Assisted Communication System. IEEE Transactions on Green Communications and Networking, 2021, 5, 1319-1332.	3.5	21
20	Effects of Practical Rechargeability Constraints on Perpetual RF Harvesting Sensor Network Operation. IEEE Access, 2016, 4, 750-765.	2.6	20
21	Blood Oxygen Saturation Measurement Using Polarization-Dependent Optical Sectioning. IEEE Sensors Journal, 2017, 17, 3900-3908.	2.4	19
22	Novel Outage-Aware NOMA Protocol for Secrecy Fairness Maximization Among Untrusted Users. IEEE Transactions on Vehicular Technology, 2020, 69, 13259-13272.	3.9	19
23	Channel-Aware Power Allocation and Decoding Order in Overlay Cognitive NOMA Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 6511-6524.	3.9	19
24	Adaptive Relay Selection Strategies for Cooperative NOMA Networks With User and Relay Cooperation. IEEE Transactions on Vehicular Technology, 2020, 69, 11728-11742.	3.9	18
25	Joint Optimization Framework for Minimization of Device Energy Consumption in Transmission Rate Constrained UAV-Assisted IoT Network. IEEE Internet of Things Journal, 2022, 9, 9591-9607.	5.5	18
26	Joint Optimal Design for Outage Minimization in DF Relay-Assisted Underwater Acoustic Networks. IEEE Communications Letters, 2018, 22, 1724-1727.	2.5	17
27	Utility-Aware Optimal Resource Allocation Protocol for UAV-Assisted Small Cells With Heterogeneous Coverage Demands. IEEE Transactions on Wireless Communications, 2020, 19, 1221-1236.	6.1	16
28	COVID-Safe Spatial Occupancy Monitoring Using OFDM-Based Features and Passive WiFi Samples. ACM Transactions on Management Information Systems, 2021, 12, 1-24.	2.1	16
29	Subcarrier pairing as channel gain tailoring: Joint resource allocation for relay-assisted secure OFDMA with untrusted users. Physical Communication, 2019, 32, 217-230.	1.2	15
30	OFDMA-Based DF Secure Cooperative Communication With Untrusted Users. IEEE Communications Letters, 2016, 20, 716-719.	2.5	14
31	RF Energy Transfer Channel Models for Sustainable IoT. IEEE Internet of Things Journal, 2018, 5, 2817-2828.	5.5	14
32	Energy-Aware Trajectory Design for Outage Minimization in UAV-Assisted Communication Systems. IEEE Transactions on Green Communications and Networking, 2022, 6, 1751-1763.	3.5	14
33	Implementation of multi-path energy routing. , 2014, , .		13
34	Utility Regions for DF Relay in OFDMA-Based Secure Communication With Untrusted Users. IEEE Communications Letters, 2017, 21, 2512-2515.	2.5	13
35	A 12-bit, 2.5-bit/Phase Column-Parallel Cyclic ADC. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2019, 27, 248-252.	2.1	13
36	Utility maximization models for two-hop energy relaying in practical RF harvesting networks. , 2017, , .		12

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37	Blood Pulsation Measurement Using Linearly Polarized Light. IEEE Sensors Journal, 2015, 15, 4488-4495.	2.4	11
38	Exploiting Temporal Correlation in Wireless Channel for Energy-Efficient Communication. IEEE Transactions on Green Communications and Networking, 2017, 1, 381-394.	3.5	11
39	Optimal Green Hybrid Attacks in Secure IoT. IEEE Wireless Communications Letters, 2020, 9, 457-460.	3.2	11
40	Decoding Orders for Securing Untrusted NOMA. IEEE Networking Letters, 2021, 3, 27-30.	1.5	11
41	UAV Deployment for Throughput Maximization in a UAV-Assisted Cellular Communications. , 2021, , .		11
42	QoS-Aware Secrecy Rate Maximization in Untrusted NOMA With Trusted Relay. IEEE Communications Letters, 2022, 26, 31-34.	2.5	11
43	Optimal time allocation for RF-powered DF relay-assisted cooperative communication. Electronics Letters, 2016, 52, 1274-1276.	0.5	10
44	Content Driven On-Chip Compression and Time Efficient Reconstruction for Image Sensor Applications. IEEE Sensors Journal, 2018, 18, 9169-9179.	2.4	10
45	Optimal Channel Estimation for Hybrid Energy Beamforming Under Phase Shifter Impairments. IEEE Transactions on Communications, 2019, 67, 4309-4325.	4.9	10
46	Stochastic solar harvesting characterisation for sustainable sensor node operation. IET Wireless Sensor Systems, 2019, 9, 208-217.	1.3	10
47	Passive Intelligent Surface Assisted MIMO Powered Sustainable IoT. , 2020, , .		10
48	Ergodic Performance of Downlink Untrusted NOMA System With Imperfect SIC. IEEE Communications Letters, 2022, 26, 23-26.	2.5	10
49	Optimal power allocation and relay placement for wireless information and RF power transfer. , 2016, , .		9
50	Joint Optimization Framework for Operational Cost Minimization in Green Coverage-Constrained Wireless Networks. IEEE Transactions on Green Communications and Networking, 2018, 2, 693-706.	3.5	9
51	Secrecy Fairness Aware NOMA for Untrusted Users. , 2019, , .		9
52	Fair Subcarrier Allocation for Securing OFDMA in IoT Against Full-Duplex Hybrid Attacker. IEEE Transactions on Information Forensics and Security, 2021, 16, 2898-2911.	4.5	9
53	Optimizing Reciprocity-Based Backscattering with a Full-Duplex Antenna Array Reader. , 2018, , .		8
54	Altitude Optimization for DF Relaying Trajectory of UAV in Cooperative FANET. , 2020, , .		8

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55	Energy-Efficient Design for IRS-Empowered Uplink MIMO-NOMA Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 9490-9500.	3.9	8
56	Efficacy of Hybrid Energy Beamforming With Phase Shifter Impairments and Channel Estimation Errors. IEEE Signal Processing Letters, 2019, 26, 99-103.	2.1	7
57	Passive WiFi CSI Sensing Based Machine Learning Framework for COVID-Safe Occupancy Monitoring. , 2021, , .		7
58	RF energy harvester-based wake-up receiver. , 2015, , .		6
59	Energy Harvesting and Sustainable M2M Communication in 5G Mobile Technologies. Modeling and Optimization in Science and Technologies, 2016, , 99-125.	0.7	6
60	A super-pixel based on-chip image compression for high speed CMOS image sensors. , 2017, , .		6
61	Monostatic Backscattering Detection by Multiantenna Reader. , 2019, , .		6
62	Cooperative NOMA Networks: User Cooperation or Relay Cooperation?. , 2020, , .		6
63	Massive MIMO Beamforming in Monostatic Backscatter Multi-Tag Networks. IEEE Communications Letters, 2021, 25, 1323-1327.	2.5	6
64	Resource Allocation in Power-Beacon-Assisted IoT Networks With Nonorthogonal Multiple Access. IEEE Internet of Things Journal, 2021, 8, 14385-14398.	5.5	6
65	Automatic Quantification of Stomata for High-Throughput Plant Phenotyping. , 2018, , .		5
66	Privacy-Aware Physical Layer Security Techniques for Smart Cities. , 2019, , 39-56.		5
67	Wireless Powered Protocol Exploiting Energy Harvesting During Cognitive Communications. IEEE Wireless Communications Letters, 2020, 9, 813-816.	3.2	5
68	Gaussian Mixture Based Context-Aware Short-Term Characterization of Wireless Channels. IEEE Transactions on Vehicular Technology, 2020, 69, 26-40.	3.9	5
69	Multi-Bounce Effect in Multi-Tag Monostatic Backscatter Communications. IEEE Wireless Communications Letters, 2022, 11, 43-47.	3.2	5
70	A Novel Approach to Channel Profiling Using the Frequency Selectiveness of WiFi CSI Samples. , 2020, , .		5
71	Secrecy Outage Probability Analysis for Downlink NOMA with Imperfect SIC at Untrusted Users. , 2021, , .		5
72	$i ²$ ER: Integrated information and energy relaying protocol for RF powered communication network. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
73	Novel Subcarrier Pairing Strategy for DF Relayed Secure OFDMA with Untrusted Users. , 2017, , .		4
74	A portable system for real-time non-contact blood oxygen saturation measurements. , 2017, , .		4
75	Energy-Aware Mode Selection for Throughput Maximization in RF-Powered D2D Communications. , 2017, , .		4
76	Efficacy of Multiuser Massive Miso Wireless Energy Transfer Under iq Imbalance and Channel Estimation Errors Over Rician Fading. , 2018, , .		4
77	QoS- and Energy-Aware Optimal Resource Allocations in DF Relay-Assisted FSO Networks. IEEE Transactions on Green Communications and Networking, 2020, 4, 914-926.	3.5	4
78	Energy-Aware Outage Probability Minimization in DF-Relayed Power Line Communication. IEEE Networking Letters, 2021, 3, 23-26.	1.5	4
79	Energy-efficient Joint Beamforming Design for IRS-assisted MISO System. , 2021, , .		4
80	Deep Learning Based Integrated Information and Energy Relaying in RF Powered Communication. , 2021, , .		4
81	Optimal Relay Coil Placement in Magnetic Resonant Coupling-Based Power Transfer. IEEE Communications Letters, 2021, 25, 2874-2878.	2.5	4
82	CSI-Based NTC Using Ambient WiFi: Opportunities and Challenges. , 2020, , .		4
83	QoS-aware stochastic spatial PLS model for analysing secrecy performance under eavesdropping and jamming. IET Communications, 2020, 14, 3735-3747.	1.5	4
84	Fire Detection Using Commodity WiFi Devices. , 2021, , .		4
85	Joint Trajectory and Velocity-Time Optimization for Throughput Maximization in Energy-Constrained UAV. IEEE Internet of Things Journal, 2022, 9, 24516-24528.	5.5	4
86	Harvested power maximization in QoS-Constrained MIMO SWIPT with generic RF harvesting model. , 2017, , .		3
87	New heuristics for strong minimum energy topology with reduced time complexity. , 2017, , .		3
88	Coverage-constrained base station deployment and power allocation for operational cost minimization. , 2017, , .		3
89	Optimal Least Squares Estimator and Precoder for Energy Beamforming Over IQ-Impaired Channels. IEEE Signal Processing Letters, 2019, 26, 1207-1211.	2.1	3
90	Coverage-Constrained Utility Maximization of UAV. , 2019, , .		3

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91	Novel Multiantenna Reader Design for Multi-Tag Backscattered Throughput Fairness Maximization. , 2019, , .		3
92	Scheduling Protocol for Throughput Maximization in Borrowing-Aided Energy Harvesting System. IEEE Networking Letters, 2020, 2, 171-174.	1.5	3
93	3D-Trajectory Design for Outage Minimization in UAV-Assisted 5G Communication System. , 2021, , .		3
94	Robust ML Model for Human Counting Using Ambient WiFi Traffic from Multiple Sources. , 2021, , .		3
95	Proportionally Fair Robust Beamforming for Multicast Multibeam Satellite Systems. IEEE Communications Letters, 2022, 26, 128-132.	2.5	3
96	Minimization of Energy-Efficient Outage Probability in AF-Relayed PLC. IEEE Systems Journal, 2022, 16, 4036-4047.	2.9	3
97	ASK Modulator Design for Passive RFID Tags in Backscatter Communication Systems. , 2022, , .		3
98	Boruvka-Incremental Power Greedy Heuristic for Strong Minimum Energy Topology in Wireless Sensor Networks. , 2015, , .		2
99	An On-Chip Interpolation Based Readout Scheme for Low-Power, High-Speed CMOS Image Sensors. , 2018, , .		2
100	Harvested Power Fairness Optimization in MISO SWIPT Multicasting IoT with Individual Constraints. , 2018, , .		2
101	QoS-aware Power Allocation and Relay Placement in Green Cooperative FSO Communications. , 2019, , .		2
102	Energy-Efficient Outage Probability Minimization in AF-Relayed Power Line Communication. , 2020, , .		2
103	Fairness-aware Subcarrier Allocation to Combat full duplex Eavesdropping and Jamming attacks in IoT. , 2020, , .		2
104	Efficient Kalman Filter-Based Precoder Tracking for Time-Varying Massive MIMO-OFDM Systems. IEEE Communications Letters, 2020, 24, 1519-1523.	2.5	2
105	Performance Analysis of Multi-Antenna CR System With Beamforming Under Various Traffic Scenarios. , 2021, , .		2
106	Power Allocation and Relay Placement for Secrecy Outage Minimization over DF Relayed System. , 2021, , .		2
107	QoS-Aware Green Communication Strategies for Optimal Utilization of Resources in 5G Networks. Advances in Wireless Technologies and Telecommunication Book Series, 2019, , 186-208.	0.3	2
108	BEAR: Reinforcement Learning for Throughput Aware Borrowing in Energy Harvesting Systems. , 2021, , .		2

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109	Secrecy Outage Probability Analysis for Downlink Untrusted NOMA Under Practical SIC Error. , 2021, , .		2
110	Thermal Profiling by WiFi Sensing in IoT Networks. , 2021, , .		2
111	Si ² ER Protocol for Optimization of RF Powered Communication using Deep Learning. , 2022, , .		2
112	Achievable throughput in relay-powered RF harvesting cooperative sensor networks. , 2016, , .		1
113	Relay-assisted RF harvesting sensor networks. , 2016, , .		1
114	An accurate channel model for optimizing effect of non-LOS component in RF energy transfer. , 2017, , .		1
115	Sum Throughput Maximization for Multi-tag MISO Backscattering. , 2019, , .		1
116	Novel QoS-Aware Physical Layer Security Analysis Considering Random Inter-Node Distances. , 2019, , .		1
117	Optimizing Secrecy Performance of Trusted RF Relay against External Eavesdropping. , 2019, , .		1
118	Secrecy-Aware Jointly Optimal Transmit Power Budget Sharing and Trusted DF Relay Placement. , 2019, , .		1
119	Rate-Constrained Energy Minimization in Hybrid SWIPT for Relay-Assisted NOMA Networks. , 2020, , .		1
120	Hovering Localization and Power Allocation for UAV Assisted DF Relaying Ad Hoc Network. , 2020, , .		1
121	Optimizing Backscattering Coefficient Design for Minimizing BER at Monostatic MIMO reader. , 2020, , .		1
122	Analyzing Secrecy Outage in Hybrid Full-Duplex Attack While Exploiting CSI of Legitimate Link. IEEE Wireless Communications Letters, 2021, 10, 1454-1458.	3.2	1
123	Secrecy-aware UAV position-aided jamming for practical eavesdropper localization models. Vehicular Communications, 2022, 33, 100430.	2.7	1
124	Cognitive Radio Timing Protocol for Interference-Constrained Throughput Maximization. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 989-1004.	4.9	1
125	Enhancement of Visible Light Backscatter Communication by Optimally Locating the Tags. , 2021, , .		1
126	Joint Optimization of IRS Location and its Phase Shift for Received Power Maximization. , 2021, , .		1

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127	Prediction Over Estimation: A Novel Energy Efficient Approach to Channel Learning. IEEE Networking Letters, 2021, 3, 168-171.	1.5	1
128	Optimal Array Steering for High Spatial Resolution Over Time Varying UAV Communication Channels. IEEE Communications Letters, 2020, 24, 662-666.	2.5	0
129	Optimal Open-Loop MIMO Precoder Design. IEEE Communications Letters, 2020, 24, 2075-2079.	2.5	0
130	Decoding Orders and Power Allocation for Untrusted NOMA: A Secrecy Perspective. , 2020, , .		0
131	Friendly Jammer Localization for Secrecy Enhancement. , 2020, , .		0
132	QoS-Aware Green Communication Strategies for Optimal Utilization of Resources in 5G Networks. , 2021, , 476-499.		0
133	Optimal New Node Insertion for Strong Minimum Energy Topology in IoT Networks. , 2021, , .		0
134	Smart Terahertz Wireless Communication Zones. , 2021, , 441-462.		0
135	Reinforcement Learning Based Green Rate-Constrained UAV Trajectory and User Association Design for IoT Networks. , 2021, , .		0
136	Primary Activity Awareness Based Secondary Transmission Gains in Smart Sensing CR. , 2021, , .		0
137	Untrusted NOMA with Imperfect SIC: Outage Performance Analysis and Optimization. , 2022, , .		0