

# Ashish Pandharipande

## List of Publications by Year in descending order

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145  
papers

3,661  
citations

218592

26  
h-index

175177

52  
g-index

147  
all docs

147  
docs citations

147  
times ranked

2604  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cooperative decode-and-forward relaying for secondary spectrum access. IEEE Transactions on Wireless Communications, 2009, 8, 4945-4950.	6.1	417
2	Energy-Efficient Distributed Spectrum Sensing for Cognitive Sensor Networks. IEEE Sensors Journal, 2011, 11, 565-573.	2.4	283
3	Compressive wide-band spectrum sensing. , 2009, , .		148
4	Daylight integrated illumination control of LED systems based on enhanced presence sensing. Energy and Buildings, 2011, 43, 944-950.	3.1	142
5	Smart indoor lighting systems with luminaire-based sensing: A review of lighting control approaches. Energy and Buildings, 2015, 104, 369-377.	3.1	142
6	Cognitive Spectrum Sharing With Two-Way Relaying Systems. IEEE Transactions on Vehicular Technology, 2011, 60, 1233-1240.	3.9	119
7	Distributed Illumination Control With Local Sensing and Actuation in Networked Lighting Systems. IEEE Sensors Journal, 2013, 13, 1092-1104.	2.4	115
8	Two-stage spectrum sensing for cognitive radios. , 2010, , .		109
9	Adaptive two-way relaying and outage analysis. IEEE Transactions on Wireless Communications, 2009, 8, 3288-3299.	6.1	108
10	Adaptive MIMO Transmission for Exploiting the Capacity of Spatially Correlated Channels. IEEE Transactions on Vehicular Technology, 2007, 56, 619-630.	3.9	106
11	Direction estimation using compressive sampling array processing. , 2009, , .		96
12	Principles of OFDM. IEEE Potentials, 2002, 21, 16-19.	0.2	95
13	Distributed lighting control with daylight and occupancy adaptation. Energy and Buildings, 2014, 75, 321-329.	3.1	95
14	Cooperative Spectrum Sharing Protocol with Secondary User Selection. IEEE Transactions on Wireless Communications, 2010, 9, 2914-2923.	6.1	85
15	Cooperative spectrum sharing via controlled amplify-and-forward relaying. , 2008, , .		68
16	Distributed compressive wide-band spectrum sensing. , 2009, , .		66
17	Adaptive Illumination Rendering in LED Lighting Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 1052-1062.	5.9	55
18	Lighting control with distributed wireless sensing and actuation for daylight and occupancy adaptation. Energy and Buildings, 2015, 97, 13-20.	3.1	54

#	ARTICLE	IF	CITATIONS
19	Sensor-Driven Wireless Lighting Control: System Solutions and Services for Intelligent Buildings. IEEE Sensors Journal, 2014, 14, 4207-4215.	2.4	53
20	Cooperative Spectrum Sharing Protocol with Selective Relaying System. IEEE Transactions on Communications, 2012, 60, 62-67.	4.9	47
21	Interference-free overlay cognitive radio network based on cooperative space time coding. , 2010, , .		43
22	Personal lighting control with occupancy and daylight adaptation. Energy and Buildings, 2015, 105, 263-272.	3.1	41
23	Daylight-adaptive lighting control using light sensor calibration prior-information. Energy and Buildings, 2014, 73, 105-114.	3.1	40
24	Compressed Sensing for Ultrasound Computed Tomography. IEEE Transactions on Biomedical Engineering, 2015, 62, 1660-1664.	2.5	40
25	D2D-Assisted Caching on Truncated Zipf Distribution. IEEE Access, 2019, 7, 13411-13421.	2.6	40
26	Outage analysis for adaptive two-way relaying. , 2008, , .		38
27	Cooperative Protocol for Analog Network Coding in Distributed Wireless Networks. IEEE Transactions on Wireless Communications, 2010, 9, 3112-3119.	6.1	34
28	Sensor-Driven Lighting Control With Illumination and Dimming Constraints. IEEE Sensors Journal, 2015, 15, 5169-5176.	2.4	34
29	Daylight Sensing LED Lighting System. IEEE Sensors Journal, 2016, 16, 3216-3223.	2.4	33
30	Full-duplex relay VLC in LED lighting linear system topology. , 2013, , .		29
31	A Data-Driven Daylight Estimation Approach to Lighting Control. IEEE Access, 2017, 5, 21461-21471.	2.6	29
32	Ultrasonic Arrays for Localized Presence Sensing. IEEE Sensors Journal, 2012, 12, 849-858.	2.4	28
33	Light-Harvesting Wireless Sensors for Indoor Lighting Control. IEEE Sensors Journal, 2013, 13, 4599-4606.	2.4	27
34	Cooperate-and-Access Spectrum Sharing with ARQ-Based Primary Systems. IEEE Transactions on Communications, 2012, 60, 2861-2871.	4.9	26
35	Full-duplex relay VLC in LED lighting triangular system topology. , 2014, , .		26
36	Performance of Virtual Full-Duplex Relaying on Cooperative Multi-path Relay Channels. IEEE Transactions on Wireless Communications, 2016, 15, 3628-3642.	6.1	25

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37	Two-Way Visible Light Communication and Illumination With LEDs. IEEE Transactions on Communications, 2017, 65, 740-750.	4.9	24
38	Enhanced Illumination Sensing Using Multiple Harmonics for LED Lighting Systems. IEEE Transactions on Signal Processing, 2010, 58, 5508-5522.	3.2	22
39	End-to-End Performance Optimization of a Dual-Hop Hybrid VLC/RF IoT System Based on SLIPT. IEEE Internet of Things Journal, 2021, 8, 17356-17371.	5.5	22
40	Outage Analysis of Co-Operative Two-Path Relay Channels. IEEE Transactions on Wireless Communications, 2016, 15, 3157-3169.	6.1	19
41	BER Minimization in Relay-Assisted OFDM Systems by Subcarrier Permutation. IEEE Vehicular Technology Conference, 2008, , .	0.2	18
42	Energy-efficient distributed spectrum sensing with convex optimization. , 2009, , .		18
43	Connectivity in IoT indoor lighting systems with visible light communications. , 2015, , .		18
44	LED-Based Color Sensing and Control. IEEE Sensors Journal, 2015, 15, 6116-6124.	2.4	18
45	Networked Illumination Control With Distributed Light-Harvesting Wireless Sensors. IEEE Sensors Journal, 2015, 15, 1662-1669.	2.4	17
46	Visible Light Communications for Sensing and Lighting Control. IEEE Sensors Journal, 2016, 16, 6718-6726.	2.4	17
47	Lighting systems control for demand response. , 2012, , .		16
48	Unidirectional visible light communication and illumination with LEDs. IEEE Sensors Journal, 2016, , 1-1.	2.4	16
49	Sensor Data-Driven Lighting Energy Performance Prediction. IEEE Sensors Journal, 2016, 16, 6397-6405.	2.4	15
50	Wireless-Powered Cooperative Multi-Relay Systems With Relay Selection. IEEE Access, 2017, 5, 19058-19071.	2.6	14
51	An Energy-Aware Retransmission Approach in SWIPT-Based Cognitive Relay Systems. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 580-594.	4.9	14
52	Connected Street Lighting Infrastructure for Smart City Applications. IEEE Internet of Things Magazine, 2019, 2, 32-36.	2.0	14
53	Single-Pixel Thermopile Infrared Sensing for People Counting. IEEE Sensors Journal, 2021, 21, 4866-4873.	2.4	14
54	Compressive sampling based MVDR spectrum sensing. , 2010, , .		13

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55	Distributed Ultrasonic Zoned Presence Sensing System. IEEE Sensors Journal, 2014, 14, 234-243.	2.4	13
56	Content Size-Aware Edge Caching: A Size-Weighted Popularity-Based Approach. , 2018, , .		13
57	Diffusion based projection method for distributed source localization in wireless sensor networks. , 2011, , .		12
58	Distributed lighting control of locally intelligent luminaire systems. , 2012, , .		12
59	Diagnosing Lumen Depreciation in LED Lighting Systems: An Estimation Approach. IEEE Transactions on Signal Processing, 2012, 60, 3796-3808.	3.2	12
60	Layered Space Shift Keying Modulation over MIMO Channels. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	3.9	12
61	Energy Data Analytics for Nonintrusive Lighting Asset Monitoring and Energy Disaggregation. IEEE Sensors Journal, 2018, 18, 2934-2943.	2.4	12
62	Spectrum pool reassignment for a cognitive OFDM-based relay system. , 2007, , .		11
63	Stochastic Spectrum Pool Reassignment for Cognitive Relay Systems. , 2008, , .		11
64	Connected Indoor Lighting Based Applications in a Building IoT Ecosystem. IEEE Internet of Things Magazine, 2019, 2, 22-26.	2.0	11
65	Classification of Occupancy Sensor Anomalies in Connected Indoor Lighting Systems. IEEE Internet of Things Journal, 2019, 6, 7175-7182.	5.5	11
66	Spectrum occupancy in the 2.36&#x2013;2.4 GHZ band: Measurements and analysis. , 2010, , .		10
67	Efficient distributed control of light-emitting diode array lighting systems. Optics Letters, 2012, 37, 2910.	1.7	10
68	Automated Detection of Commissioning Changes in Connected Lighting Systems. IEEE Internet of Things Journal, 2019, 6, 898-905.	5.5	10
69	Location Data Analytics in Wireless Lighting Systems. IEEE Sensors Journal, 2016, 16, 2683-2690.	2.4	9
70	Cooperative Spectrum Sharing on SWIPT-Based DF Relay: An Energy-Aware Retransmission Approach. IEEE Access, 2019, 7, 120802-120816.	2.6	9
71	On throughput and delay scaling with cooperative spectrum sharing. , 2011, , .		8
72	Illumination and light sensing for daylight adaptation with an LED array: Proof-of-principle. , 2013, , .		8

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73	Light sensor calibration and dimming sequence design in distributed lighting control systems. , 2014, , .		8
74	Location-Based Illumination Control Access in Wireless Lighting Systems. IEEE Sensors Journal, 2015, 15, 5954-5961.	2.4	8
75	IoT lighting: Towards a connected building eco-system. , 2018, , .		8
76	Performance Analysis of A SLIPT-Based Hybrid VLC/RF System. , 2020, , .		8
77	Sensing and communication protocols in cognitive sensor relay networks. , 2008, , .		7
78	Energy-efficient spectrum sensing for cognitive sensor networks. , 2009, , .		7
79	Disaggregated Daylightâ€™Artificial Light Sensing. IEEE Sensors Journal, 2012, 12, 3438-3445.	2.4	7
80	An identification approach to lighting control. , 2016, , .		7
81	Spectrum pool reassignment for wireless multi-hop relay systems. , 2008, , .		6
82	User localization using ultrasonic presence sensing systems. , 2012, , .		6
83	Self-Configuring Scheduling Protocol for Ultrasonic Sensor Systems. IEEE Sensors Journal, 2013, 13, 2517-2518.	2.4	6
84	Cooperative two-path relay channels: Performance analysis using a Markov framework. , 2015, , .		6
85	New directions in networking technologies in emerging economies [Guest editorial]. , 2007, 45, 92-95.		5
86	Beamforming under Quantization Errors in Wireless Binaural Hearing Aids. Eurasip Journal on Audio, Speech, and Music Processing, 2008, 2008, 1-8.	1.3	5
87	Lumen Depreciation Diagnosis in Modulated LED Lighting Systems. IEEE Photonics Technology Letters, 2013, 25, 1466-1469.	1.3	5
88	Spectrum sharing on interference channels with a cognitive relay. , 2013, , .		5
89	Collision recovery in distributed wireless networks with opportunistic cooperation. IEEE Communications Letters, 2010, 14, 300-302.	2.5	4
90	Multi-appliance power disaggregation: An approach to energy monitoring. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
91	Cooperative spectrum sharing with relay selection. , 2010, , .		4
92	An orthogonal spectrum sharing scheme for wireless sensor networks. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	1.5	4
93	Detection diversity of multiantenna spectrum sensors. , 2011, , .		4
94	Color sensing and illumination with LED lamps. , 2014, , .		4
95	Illumination gain estimation and tracking in a distributed lighting control system. , 2014, , .		4
96	Ultrasonic Array Doppler Sensing for Human Movement Classification. IEEE Sensors Journal, 2014, 14, 2782-2791.	2.4	4
97	Spectrum sharing on interference channels with a cognitive relay. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	1.5	4
98	Outage analysis of cooperative multi-path relay channels with virtual full-duplex relaying. , 2015, , .		4
99	Location Data Analytics for Space Management. , 2017, , .		4
100	Anomalous occupancy sensor behavior detection in connected indoor lighting systems. , 2019, , .		4
101	Cognitive Spectrum Sharing With Bi-directional Secondary System. , 2014, , .		4
102	An interleaved tcm scheme for single carrier multiple transmit antenna systems. IEEE Communications Letters, 2006, 10, 447-449.	2.5	3
103	Spectrally efficient sensing protocol for cognitive relay systems. , 2009, , .		3
104	Jointly cooperative decode-and-forward relaying for secondary spectrum access. , 2012, , .		3
105	Transmission slot allocation and synchronization protocol for ultrasonic sensor systems. , 2013, , .		3
106	Detection performance analysis of an ultrasonic presence sensor. , 2013, , .		3
107	Indoor granular presence sensing with an ultrasonic circular array sensor. , 2014, , .		3
108	Performance analysis of multi-path relay channels with source power adaptation. , 2015, , .		3

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109	Indoor Granular Presence Sensing and Control Messaging With an Ultrasonic Circular Array Sensor. IEEE Sensors Journal, 2015, 15, 4888-4898.	2.4	3
110	Wireless-powered cooperative multi-relay networks with relay selection. , 2017, , .		3
111	Adaptive visible light communication LED receiver. , 2017, , .		3
112	Energy data services with connected street lighting. , 2019, , .		3
113	Anomaly Classification in People Counting and Occupancy Sensor Systems. IEEE Sensors Journal, 2020, 20, 6573-6581.	2.4	3
114	Social Sensing in IoT Applications: A Review. IEEE Sensors Journal, 2021, 21, 12523-12530.	2.4	3
115	A SLIPT-Based Hybrid VLC/RF Cooperative Communication System with Relay Selection. , 2021, , .		3
116	Parameter estimation of multiple pulse trains for illumination sensing. , 2010, , .		2
117	Optimal LED-based Illumination Control via Distributed Convex Optimization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 11350-11356.	0.4	2
118	Guest Editorial Special Issue on Sensing Technologies for Intelligent Urban Infrastructures. IEEE Sensors Journal, 2014, 14, 4121-4121.	2.4	2
119	Compressed sensing for beamformed Ultrasound computed tomography. , 2015, , .		2
120	Centralized lighting control with luminaire-based occupancy and light sensing. , 2015, , .		2
121	Energy performance prediction of lighting systems. , 2016, , .		2
122	Luminaire-Based Multi-Modal Sensing for Environmental Building Applications. IEEE Sensors Journal, 2022, 22, 2564-2571.	2.4	2
123	ARQ by Subcarrier Assignment for OFDM-Based Systems. IEEE Transactions on Signal Processing, 2008, 56, 6003-6016.	3.2	1
124	Towards collisions: An enhanced successive interference cancellation with asynchronism. , 2012, , .		1
125	Cooperative spectrum sharing with joint receiver decoding. , 2013, , .		1
126	Indoor occupancy logger with compressive vision sensing. , 2014, , .		1



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127	Occupancy analytics using RSSI information on wireless lighting systems. , 2015, , .		1
128	Secure indoor positioning: Relay attacks and mitigation using presence sensing systems. , 2015, , .		1
129	Redundant run-length limited encoding for two-way visible light communication. , 2016, , .		1
130	Social Impact of Connected Landmark Lighting: A Social Sensing Approach. IEEE Internet of Things Magazine, 2020, 3, 64-67.	2.0	1
131	Luminaire-based environmental sensing for comfort monitoring and control. , 2021, , .		1
132	Optimum compaction filters for cyclostationary signals. , 2002, , .		0
133	Optimum multiframe biorthogonal DMT with unequal subchannel assignment. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 117-122.	0.4	0
134	ARQ with Subcarrier Assignment for OFDM Systems. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	0
135	Nyquist pulse shaping criterion for two-dimensional systems. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	0
136	Co-existence with ARQ-based primary system through cooperate-and-access spectrum sharing. , 2011, , .		0
137	Presence detection under optimum fusion in an ultrasonic sensor system. Journal of the Acoustical Society of America, 2012, 131, EL348-EL353.	0.5	0
138	Joint Decision-Making and Power Allocation for One-Bit Feedback Sensor Communications. IEEE Wireless Communications Letters, 2012, 1, 177-180.	3.2	0
139	ARQ-based spectrum sharing with multiple-access secondary system. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	1.5	0
140	Ultrasonic circular array sensing for human arm motion classification. , 2014, , .		0
141	Optimal rate allocation for speech enhancement using remote power-constrained wireless microphones. IET Signal Processing, 2014, 8, 792-799.	0.9	0
142	Editorial: Connected lighting and societal impact. Lighting Research and Technology, 2020, 52, 581-581.	1.2	0
143	Sensor commissioning detection in single-pixel thermopile sensing systems. , 2021, , .		0
144	Editorial: Data and connected lighting. Lighting Research and Technology, 2021, 53, 525-525.	1.2	0

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145	Effect of quantization on beamforming in binaural hearing aids. , 2008, , .		0