

Tuncer Baykas

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

2,051
citations

759233

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h-index

677142

22
g-index

96
all docs

96
docs citations

96
times ranked

1782
citing authors

#	ARTICLE	IF	CITATIONS
1	A 130 nm CMOS Receiver for Visible Light Communication. Journal of Lightwave Technology, 2022, 40, 3681-3687.	4.6	2
2	A behavioral paradigm for cortical control of a robotic actuator by freely moving rats in a one-dimensional two-target reaching task. Journal of Neuroscience Methods, 2022, 373, 109555.	2.5	1
3	Comparative Performance Evaluation of VLC, LTE and WLAN Technologies in Indoor Environments. , 2021, , .		2
4	Location Aware Vertical Handover in a VLC/WLAN Hybrid Network. IEEE Access, 2021, 9, 129810-129819.	4.2	9
5	Measurement Based Statistical Channel Characterization of Air-to-Ground Path Loss Model at 446MHz for Narrowband Signals in Low Altitude UAVs. , 2020, , .		1
6	Experimental Validation of a Novel RLL Code for Visible Light Communication. , 2020, , .		1
7	VLCnet: Deep Learning Based End-to-End Visible Light Communication System. Journal of Lightwave Technology, 2020, 38, 5937-5948.	4.6	17
8	Predicting Path Loss Distribution of an Area From Satellite Images Using Deep Learning. IEEE Access, 2020, 8, 64982-64991.	4.2	46
9	Efficient POPS-OFDM Waveform Design for Future Wireless Communication Systems. IEEE Systems Journal, 2019, 13, 171-182.	4.6	1
10	Path Loss Exponent and Shadowing Factor Prediction From Satellite Images Using Deep Learning. IEEE Access, 2019, 7, 101366-101375.	4.2	38
11	Performance Analysis of VLC Based on 802.11ac Frame Structure. IEEE Communications Letters, 2019, 23, 1560-1563.	4.1	4
12	Distance and Power based Experimental Verification of Channel Model in Visible Light Communication. , 2019, , .		1
13	Hybrid MEMS-Based Molecular Communication System. , 2019, , .		1
14	Performance of TDOA and AOA Localization Techniques for Different Base-Stations Topologies. , 2019, , .		6
15	Statistical Channel Modeling for Short Range Line-of-Sight Terahertz Communication. , 2019, , .		9
16	Performance Analysis of User Scheduling in Massive MIMO with Fast Moving Users. , 2019, , .		0
17	Flexible Beacon Design For 60 GHz Wireless Personal Area Networks. Journal of Natural and Applied Sciences, 2019, 23, 943-947.	0.4	0
18	A Novel Indoor Channel Model for TVWS Communications Based on Measurements. , 2018, , .		1

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19	A new approach for coexistence of IEEE 802.11af and IEEE 802.22 systems. , 2018, , .		0
20	Busy tone based coexistence algorithm for WRAN and WLAN systems in TV white space. IET Communications, 2018, 12, 1630-1637.	2.2	4
21	IEEE 802.15.7r1 Reference Channel Models for Visible Light Communications. , 2017, 55, 212-217.		122
22	Dynamic utilization of low-altitude platforms in aerial heterogeneous cellular networks. , 2017, , .		5
23	Busy tone based power control for coordination of IEEE 802.11af and 802.22 system. , 2017, , .		1
24	Application of standard CMOS photodiodes in optical communication systems. , 2017, , .		0
25	Link Adaptation for MIMO OFDM Visible Light Communication Systems. IEEE Access, 2017, 5, 26006-26014.	4.2	38
26	A novel one-base station hybrid positioning method. , 2017, , .		0
27	A Microcontroller-Based Wireless Multichannel Neural Data Transmission System. , 2017, , .		1
28	On Reducing Multiband Spectrum Sensing Duration for Cognitive Radio Networks. , 2016, , .		6
29	Cross MAC/PHY layer security design using ARQ with MRC and adaptive modulation. , 2016, , .		15
30	IEEE Standard 802.19.1 for TV white space coexistence. , 2016, 54, 22-26.		26
31	A practical physical-layer security method for precoded OSTBC-based systems. , 2016, , .		19
32	TVWS potential in Turkey. , 2016, , .		2
33	NACRP: A Connectivity Protocol for Star Topology Wireless Sensor Networks. IEEE Wireless Communications Letters, 2016, 5, 120-123.	5.0	20
34	Busy tone implementation for coexistence of IEEE 802.22 and 802.11af systems. , 2015, , .		1
35	Analysis of extended busy tone performance for coexistence between WRAN and WLAN TVWS networks. , 2015, , .		5
36	Optimization of aerial base station location in LAP for disaster situations. , 2015, , .		9

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37	Achieving secure communication through pilot manipulation. , 2015, , .		7
38	On the spectrum efficiency of mesh and star topology wide area wireless sensor networks. , 2014, , .		6
39	Cognitive communication in TV white spaces: An overview of regulations, standards, and technology [Accepted From Open Call]. , 2013, 51, 138-145.		72
40	Telecommunications standards: Part II [Guest Editorial]. , 2013, 51, 72-73.		0
41	Telecommunications standards. , 2013, 51, 78-79.		0
42	Improving preamble detection performance of IEEE P802.15.4k DSSS PHY. , 2013, , .		4
43	Verification of TVWS Coexistence System Based on P802.19.1 Draft Standard. , 2013, , .		1
44	Performance evaluation of mmWave single carrier systems with a novel NLOS channel model. , 2013, , .		2
45	Coexistence protocol design for autonomous decision-making systems in TV white space. , 2012, , .		5
46	A feasible neighbor discovery algorithm for coexistence control system over TVWS. , 2012, , .		5
47	System design to enable coexistence in TV white space. , 2012, , .		5
48	Developing a standard for TV white space coexistence: technical challenges and solution approaches. IEEE Wireless Communications, 2012, 19, 10-22.	9.0	166
49	A Complete Design of Coexistence Information Service for Autonomous Decision-Making Systems in TV White Space. IEICE Transactions on Communications, 2012, E95.B, 1230-1240.	0.7	0
50	Performance Evaluation of IEEE 802.19.1 Coexistence System. , 2011, , .		12
51	IEEE 802.15.3c: the first IEEE wireless standard for data rates over 1 Gb/s. , 2011, 49, 114-121.		244
52	Enabling coexistence of multiple cognitive networks in TV white space. IEEE Wireless Communications, 2011, 18, 32-40.	9.0	41
53	Autonomous Dynamic Frequency Selection for WLANs Operating in the TV White Space. , 2011, , .		3
54	Standardization Activities Related to TV White Space. , 2011, , 173-208.		1

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55	Error Rate Analysis of Band-Limited BPSK With Nakagami/Nakagami ACI Considering Nonlinear Amplifier and Diversity. IEEE Transactions on Vehicular Technology, 2010, 59, 1523-1529.	6.3	3
56	Investigation of Synchronization Frame Transmission in Multi-Gbps 60 GHz WPANs. , 2010, , .		1
57	A Scalable Heuristic Scheduling Strategy for 60GHz WPAN STDMA System with Directional Antennas. , 2010, , .		5
58	A Cross Layer Interference and Coexistence Model for Millimeter-Wave WPAN with Directional Antennas. , 2010, , .		4
59	Overview of TV White Spaces: Current regulations, standards and coexistence between secondary users. , 2010, , .		18
60	A Pro-Active Beamforming Protocol for Multi-Gbps Millimeter-Wave WPAN Systems. , 2010, , .		7
61	Research, Development, and Standards Related Activities on Dynamic Spectrum Access and Cognitive Radio. , 2010, , .		6
62	Preamble Design for Millimeter-Wave Single Carrier WPANs. , 2009, , .		0
63	A synchronization-frame-aided interference mitigation mechanism for millimeter-wave WPAN. , 2009, , .		3
64	Virtual Time-Slot Allocation Scheme for Throughput Enhancement in a Millimeter-Wave GBPS WPAN Cross Layer Design. , 2009, , .		6
65	A Space-Time Resource Management Scheme for Multi-Gbps Millimeter-Wave WPAN System. , 2009, , .		0
66	Exact Error Probabilities for MRC in Frequency Selective Nakagami Fading with ISI, CCI and ACI. , 2009, , .		6
67	On Error Probabilities for DS-CDMA/MRC in Frequency Selective Nakagami Fading. , 2009, , .		0
68	A SNR Mapping Scheme for ZF/MMSE Based SC-FDE Structured WPANs. , 2009, , .		3
69	Virtual time-slot allocation scheme for throughput enhancement in a millimeter-wave multi-Gbps WPAN system. IEEE Journal on Selected Areas in Communications, 2009, 27, 1379-1389.	14.0	54
70	Beam codebook based beamforming protocol for multi-Gbps millimeter-wave WPAN systems. IEEE Journal on Selected Areas in Communications, 2009, 27, 1390-1399.	14.0	559
71	Error performance and throughput evaluation of a multi-Gbps millimeter-wave WPAN system in the presence of adjacent and co-channel interference. IEEE Journal on Selected Areas in Communications, 2009, 27, 1433-1442.	14.0	20
72	Relay with deflection routing for effective throughput improvement in Gbps millimeter-wave WPAN systems. IEEE Journal on Selected Areas in Communications, 2009, 27, 1453-1465.	14.0	28

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73	Single carrier transmission for multi-gigabit 60-GHz WPAN systems. IEEE Journal on Selected Areas in Communications, 2009, 27, 1466-1478.	14.0	80
74	Beam Codebook Based Beamforming Protocol for Multi-Gbps Millimeter-Wave WPAN Systems. , 2009, , .		59
75	Beamforming Codebook Design and Performance Evaluation for 60GHz Wideband WPANs. , 2009, , .		74
76	Analysis and Comparison of Inter-Symbol/Frame Interference in Pulsed DS- and Hybrid DS/TH-UWB Communications. , 2009, , .		5
77	Achieving Gbps Throughput for Millimeter-Wave WPAN with an Anti-Blocking Scheme Using Deflection Routing. , 2009, , .		1
78	Deflect Routing for Throughput Improvement in Multi-Hop Millimeter-Wave WPAN System. , 2009, , .		7
79	A Virtual Time-Slot Allocation Throughput Enhancement Scheme with Multiple Modulations for a Multi-Gbps Millimeter-Wave WPAN System. , 2009, , .		28
80	A Multi-Gbps Millimeter-Wave WPAN System Based on STDMA with Heuristic Scheduling. , 2009, , .		22
81	Error Performance and Throughput Evaluation of a Multi-Gbps Millimeter-Wave WPAN System in Multipath Environment in the Presence of Adjacent and Co-Channel Interference. , 2009, , .		13
82	Throughput and Error Analysis of a Space-Time Resource Management Scheme for Multi-Gbps Millimeter-Wave WPAN System. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92.A, 2659-2668.	0.3	3
83	Error Probability of MRC in Frequency Selective Nakagami Fading in the Presence of CCI and ACI. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2009, E92-A, 2679-2687.	0.3	1
84	Golay sequence aided channel estimation for millimeter-wave WPAN systems. , 2008, , .		17
85	Improvement of Header Detection Rate in 60 GHz Single Carrier WPAN System. , 2008, , .		0
86	Unequal Error Protection for Compressed Video Streaming on 60GHz WPAN System. , 2008, , .		2
87	Performance of Trellis-Coded-Modulation for a Multi-Gigabit Millimeter-Wave WPAN System in the Presence of Hardware Impairments. , 2008, , .		0
88	A Feasible Frequency Domain Pre-Equalization Proposal Based on Cross Layer Design in 60GHz WPANs. , 2008, , .		0
89	Operation Range Estimation of Reed-Solomon Coded SC-FDE System in 60-GHz WPANs. International Conference on Advanced Communication Technology, 2008, , .	0.0	0
90	Fixed Point Decoding Performance of Short-Length Structured LDPC Codes for SC-FDE Based 60-GHz WPAN (IEEE 802.15.3c)., 2008, , .		1

#	ARTICLE	IF	CITATIONS
91	Hardware Impairments on LDPC Coded SC-FDE and OFDM in Multi-Gbps WPAN (IEEE 802.15.3c). , 2008, , .		18
92	Adjacent channel interference resistance of a multi-Gbps millimeter-wave WPAN system. , 2008, , .		3
93	Novel frame design methodology for multi-gigabit 60GHz WPAN systems. , 2008, , .		3
94	Performance of G-RAKE Receiver in DS-CDMA Ultra-Wideband Systems. , 2007, , .		0
95	Generalized decorrelating discrete-time rake receiver. IEEE Transactions on Wireless Communications, 2007, 6, 4268-4274.	9.2	3
96	Iterative Methods for the G-RAKE Receiver in HSDPA. , 2006, , .		0