

Keiichi Mizutani

List of Publications by Year in descending order

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g-index

95
all docs

95
docs citations

95
times ranked

240
citing authors

#	ARTICLE	IF	CITATIONS
1	IEEE 802.15.4g Based Wi-SUN Communication Systems. IEICE Transactions on Communications, 2017, E100.B, 1032-1043.	0.7	87
2	Time-Domain Windowing Design for IEEE 802.11af Based TVWS-WLAN Systems to Suppress Out-of-Band Emission. IEICE Transactions on Communications, 2014, E97.B, 875-885.	0.7	24
3	Development and field experiment of wide area Wi-SUN system based on IEEE 802.15.4g. , 2016, , .		21
4	Acoustic Communication in Air Using Differential Biphase Shift Keying with Influence of Impulse Response and Background Noise. Japanese Journal of Applied Physics, 2007, 46, 4541.	1.5	16
5	Some Initial Results and Observations from a Series of Trials within the Ofcom TV White Spaces Pilot. , 2015, , .		16
6	Universal Time-Domain Windowed OFDM. , 2016, , .		16
7	Macro-Cell Capacity Enhancement with Dynamic Full-Duplex Cellular System. , 2018, , .		16
8	Field experiment of long-distance broadband communications in TV white space using IEEE 802.22 and IEEE 802.11af. , 2014, , .		14
9	Study of Doppler Shift Correction for Underwater Acoustic Communication Using Orthogonal Signal Division Multiplexing. Japanese Journal of Applied Physics, 2011, 50, 07HG06.	1.5	13
10	Experimental Study of Doppler Effect for Underwater Acoustic Communication Using Orthogonal Signal Division Multiplexing. Japanese Journal of Applied Physics, 2012, 51, 07GG04.	1.5	12
11	A Reliable Channel Estimation Scheme Using Scattered Pilot Pattern for IEEE 802.22-Based Mobile Communication System. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 935-948.	7.9	12
12	User Throughput Enhancement with Dynamic Full-Duplex Cellular System in Dense Urban Multi-cell Environment. , 2019, , .		12
13	Data Rate Enhancement of FSK Transmission Scheme for IEEE 802.15.4-Based Field Area Network. IEEE Sensors Journal, 2021, 21, 9600-9611.	4.7	12
14	IEEE 802.11af Indoor Experiment in UK Ofcom TVWS Trial Pilot Program. , 2015, , .		11
15	Comprehensive Performance Evaluation of Universal Time-Domain Windowed OFDM-Based LTE Downlink System. IEICE Transactions on Communications, 2019, E102.B, 1728-1740.	0.7	10
16	IEEE 802.15.4g/4x-Based Orthogonal Frequency-Division Multiplexing Transmission Scheme for Wide-Area and Mobile IoT Communication Systems. IEEE Internet of Things Journal, 2022, 9, 12673-12683.	8.7	10
17	A comprehensive study of universal time-domain windowed OFDM-based LTE downlink system. , 2017, , .		9
18	Performance Evaluation of Multi-hop Network Configuration for Wi-SUN FAN Systems. , 2019, , .		9

#	ARTICLE	IF	CITATIONS
19	An Ultra-low Power Consumption MAC Protocol Complied with IEEE 802.15.4/4e for Wireless Smart Utility Networks. IEJ Transactions on Electronics, Information and Systems, 2016, 136, 1555-1566.	0.2	9
20	Ultra-low power MAC protocol complied with RIT in IEEE 802.15.4e for wireless smart utility networks. , 2016, , .		8
21	A Scheduling Scheme For Channel Hopping In Wi-Sun Fan Systems Toward Data Throughput Enhancement. , 2020, , .		8
22	A Novel Routing Method with Load-Balancing in Wi-SUN FAN Network. , 2021, , .		7
23	Design and implementation of a Wi-Fi prototype system in TVWS based on IEEE 802.11 af. , 2013, , .		6
24	Path Loss and Throughput Estimation Models for an IEEE 802.11af Prototype. , 2015, , .		6
25	A Robust Channel Estimation for IEEE 802.22 Enabling Wide Area Vehicular Communication. , 2018, , .		6
26	Experimental Study of Doppler Effect for Underwater Acoustic Communication Using Orthogonal Signal Division Multiplexing. Japanese Journal of Applied Physics, 2012, 51, 07GG04.	1.5	6
27	Network Synchronization for Two-Way Multi-Hop Relay Networks with Block Modulation. , 2010, , .		5
28	IEEE802.11af with partial subcarrier system for effective use of TV white spaces. , 2013, , .		5
29	Performance evaluation of TD-LTE in VHF-band for large coverage public broadband communications system. , 2017, , .		5
30	UTW-OFDM-based 5G New Radio with Low Out-of-band Emission. , 2019, , .		5
31	An Initial Study of Dynamic-Duplex Cellular System on 5G NR Downlink in High SHF Band. , 2021, , .		5
32	In-Band Full-Duplex-Applicable Area Expansion by Inter-User Interference Reduction Using Successive Interference Cancellation. IEICE Transactions on Communications, 2022, E105.B, 168-176.	0.7	5
33	Analytical Model of Quantization Noise for In-Band Full-duplex Wireless Communications. , 2020, , .		5
34	A PAPR reduction of OFDM signal using neural networks with tone injection scheme. , 2007, , .		4
35	Differential Phase Shift Keying Acoustic Communication in Air for Low-Signal-to-Noise Ratio Environment. Japanese Journal of Applied Physics, 2008, 47, 6526-6529.	1.5	4
36	Complexity suppression of neural networks for PAPR reduction of OFDM signal and its FPGA implementation. , 2008, , .		4

#	ARTICLE	IF	CITATIONS
37	Hardware Prototype for Two-Way Multi-Hop Relay Network with MIMO Network Coding. , 2010, , .		4
38	An Implementable Channel and CFO Estimation Scheme for IEEE 802.22-Based Radio Equipment. , 2017, , .		4
39	Compact IEEE 802.22-based radio equipment enabling easy installation for regional area network system using TV white-spaces. , 2017, , .		4
40	A transceiver design of VHF band standardized broadband mobile communications systems. , 2017, , .		4
41	A dynamic routing protocol supporting mobile nodes in Wi-SUN FAN systems. , 2017, , .		4
42	A Load Balancing Algorithm for Layer 2 Routing in IEEE 802.15.10. IEICE Transactions on Communications, 2018, E101.B, 2131-2141.	0.7	4
43	A TV White Space Wireless Broadband Prototype for Wireless Regional Area Network. , 2018, , .		4
44	A Low-pass Filtered Time-domain Window for DFTs-OFDM to Reduce Out-of-band Emission with Low Complexity. , 2019, , .		4
45	Possibility of Dynamic Spectrum Sharing System by VHF-band Radio Sensor and Machine Learning. , 2019, , .		4
46	Inter-User Interference Reduction Applying Successive Interference Cancellation for Dynamic-duplex Cellular System. , 2021, , .		4
47	Software-Defined Radio-Based Evaluation Platform for Highly Mobile IEEE 802.22 System. IEEE Open Journal of Vehicular Technology, 2022, 3, 167-177.	4.9	4
48	Locality of Area Coverage on Digital Acoustic Communication in Air using Differential Phase Shift Keying. Japanese Journal of Applied Physics, 2009, 48, 07GB07.	1.5	3
49	Carrier frequency offset estimation scheme for IEEE 802.15.4g based wide area Wi-SUN systems. , 2016, , .		3
50	A Broadcast Protocol for IEEE 802.15.4e RIT Based Wi-SUN Systems. , 2017, , .		3
51	A Load Balancing Algorithm for Layer 2 Routing Based Wi-SUN Systems. , 2017, , .		3
52	A Frequency-domain ICI Cancellation Using Weight Matrix Based on Window Shape for Simplified UTW-OFDM. , 2018, , .		3
53	Analysis and Experimental Verification of F-RIT Protocol for Wireless Smart Utility Network. , 2019, , .		3
54	Prototype Hardware for TDD Two-Way Multi-Hop Relay Network Using MIMO Network Coding. IEICE Transactions on Communications, 2012, E95.B, 1738-1750.	0.7	3

#	ARTICLE	IF	CITATIONS
55	A High-speed Wi-SUN FAN Network by Highly-Dense Frequency Hopping. , 2020, , .		3
56	Inter-Carrier Interference Cancellation for 5G System Applying Simplified Universal Time-domain Windowed OFDM. , 2021, , .		3
57	Highly Efficient Demodulation Scheme for In-band Full-duplex Using Heterogeneous Wireless Communication Schemes. , 2021, , .		3
58	MIMO Radio Propagation Measurement for Two-Hop Relay Network on L-Shaped Corridor with Network Performance Analysis. , 2010, , .		2
59	Adaptive time-domain windowing based transmit power control for TVWS-WLAN systems. , 2014, , .		2
60	Enhanced UF-OFDM for Long-Delay Multipath Fading Environment. , 2017, , .		2
61	Enhanced universal filtered-DFTs-OFDM for long-delay multi-path environment. , 2017, , .		2
62	LTE uplink system based on universal timedomain windowed DFTs-OFDM. , 2017, , .		2
63	Practical Analysis of CSL Low Power MAC Protocol Based on IEEE 802.15.4e Frame Structure. , 2018, , .		2
64	Data Rate Enhancement for IEEE 802.15.4 Based FSK Transmission Scheme. , 2020, , .		2
65	A Routing Protocol toward Reliable Mobile Communication in Wi-SUN FAN. , 2021, , .		2
66	Efficient Polling Communications for Multi-Hop Networks Based on Receiver-Initiated MAC Protocol. IEICE Transactions on Communications, 2021, E104.B, 550-562.	0.7	2
67	Channel Measurement and Modeling Prototype for IEEE 802.22-Based Regional Area Networks. IEEE Access, 2021, 9, 144587-144599.	4.2	2
68	Feasibility Study of F-RIT Low-power Consumption MAC Protocol Complied with IEEE 802.15.4/4e for Wireless Smart Utility Networks. IEJ Transactions on Electronics, Information and Systems, 2017, 137, 1461-1471.	0.2	2
69	Enhanced F-RIT Protocol for Wireless Smart Utility Networks with High Traffic Bi-Directional Communications. IEICE Transactions on Communications, 2018, E101.B, 2487-2497.	0.7	2
70	Wi-SUN FAN Multi-hop Network in Coexistence of IEEE 802.15.4 FSK and OFDM Transmission Schemes. , 2021, , .		2
71	Radio Sensor Development for Location Estimation Using Radio Big Data of ARIB STD-T103/119-compliant Wireless Communication Systems. , 2021, , .		2
72	Underwater ultrasonic ranging by digital signal multiplexing with hadamard matrix. , 2009, , .		1

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73	Phase Shift Keying Acoustic Communication in Air with Impulse Response. Japanese Journal of Applied Physics, 2009, 48, 07GB06.	1.5	1
74	Network throughput of TDD/TDMA two-way multi-hop relay network with MIMO network coding in indoor environment. , 2010, , .		1
75	Experiment on MIMO two-way relaying using transmit beamforming. , 2012, , .		1
76	Experimental Evaluation and Analysis of F-RIT Low Power MAC Protocol Complied with IEEE 802.15.4e. , 2017, , .		1
77	A UTW-OFDM without symbol overlapping process for small cell networks. , 2017, , .		1
78	A Low Pass Filtered-Raised-Cosine Window for UTW-DFTs-OFDM. , 2018, , .		1
79	Feasibility Study of Wi-SUN JUTA Profile-Compliant F-RIT Protocol. IEICE Transactions on Communications, 2021, E104.B, 1354-1365.	0.7	1
80	Performance Analysis of MIMO Relay Network via Propagation Measurement in L-Shaped Corridor Environment. IEICE Transactions on Communications, 2012, E95.B, 1345-1356.	0.7	1
81	IEEE 802.11af Wi-Fi in TV White Space. , 2017, , 1-27.		1
82	Development of Evaluation Platform for IEEE 802.22-based Highly Mobile WRAN Communication System with an SDR-based Receiver. , 2020, , .		1
83	A Receiver for IEEE 802.15.4-based High-speed Mobile IoT Communication Systems. , 2021, , .		1
84	Complexity Suppression of Neural Networks for PAPR Reduction of OFDM Signal. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010, E93-A, 1704-1708.	0.3	0
85	Network Synchronization Scheme for Scalable Two-Way Multi-Hop Network Employing MIMO Network Coding. , 2012, , .		0
86	Developments and Practical Field Trials of TV White Space Technologies. , 2015, , 513-549.		0
87	Experimental evaluation of universal time-domain windowed OFDM-based LTE downlink system by real-time wave-shaping. , 2017, , .		0
88	Time-domain channel equalization for subcarrier spacing compressed FDM with SC-MMSE turbo equalization receiver. , 2017, , .		0
89	Performance Evaluation of Universal Time-domain Windowed GFDM-based LTE Uplink. , 2018, , .		0
90	An Effective Near-Field Measurement Using Multicarrier Modulation Signal. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
91	IEEE 802.11af Wi-Fi in TV White Space. , 2019, , 1509-1535.		0
92	Propagation Loss Model in Short Range LoS Environment for TV White Space Systems using Low Antenna Height Base Station. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2014, 68, J502-J509.	0.1	0
93	IEEE 802.11af TVWS-WLAN with Partial Subcarrier System for Effective TVWS Utilization. IEICE Transactions on Communications, 2014, E97.B, 886-895.	0.7	0
94	Enhanced Universal Filtered-DFTs-OFDM for Long-Delay Multipath Environment. IEICE Transactions on Communications, 2020, E103.B, 467-475.	0.7	0
95	Channel Modeling Algorithm for TVWS-based IEEE 802.22 WRAN System in Rural Areas. , 2020, , .		0