# Keiichi Mizutani

List of Publications by Year
in descending order

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| 95 | 537 | 1040056 | 940533 |
|---|---|---|---|
| papers | citations | 9 h-index | 16 g-index |

| 95 | 95 | 95 | 240 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | A Routing Protocol toward Reliable Mobile Communication in Wi-SUN FAN. , 2021, , . | | 2 |
| 5 | An Initial Study of Dynamic-Duplex Cellular System on 5G NR Downlink in High SHF Band. , 2021, , . | | 5 |
| 6 | Inter-User Interference Reduction Applying Successive Interference Cancellation for Dynamic-duplex Cellular System. , 2021, , . | | 4 |
| 7 | 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 |
| 8 | 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 |
| 9 | Feasibility Study of Wi-SUN JUTA Profile-Compliant F-RIT Protocol. IEICE Transactions on Communications, 2021, E104.B, 1354-1365. | 0.7 | 1 |
| 10 | Channel Measurement and Modeling Prototype for IEEE 802.22-Based Regional Area Networks. IEEE Access, 2021, 9, 144587-144599. | 4.2 | 2 |
| 11 | A Novel Routing Method with Load-Balancing in Wi-SUN FAN Network. , 2021, , . | | 7 |
| 12 | Inter-Carrier Interference Cancellation for 5G System Applying Simplified Universal Time-domain Windowed OFDM. , 2021, , . | | 3 |
| 13 | Highly Efficient Demodulation Scheme for In-band Full-duplex Using Heterogeneous Wireless Communication Schemes. , 2021, , . | | 3 |
| 14 | A Receiver for IEEE 802.15.4-based High-speed Mobile IoT Communication Systems. , 2021, , . | | 1 |
| 15 | Wi-SUN FAN Multi-hop Network in Coexistence of IEEE 802.15.4 FSK and OFDM Transmission Schemes. , 2021, , . | | 2 |
| 16 | Radio Sensor Development for Location Estimation Using Radio Big Data of ARIB STD-T103/119-compliant Wireless Communication Systems. , 2021, , . | | 2 |
| 17 | Data Rate Enhancement for IEEE 802.15.4 Based FSK Transmission Scheme. , 2020, , . | | 2 |
| 18 | A Scheduling Scheme For Channel Hopping In Wi-Sun Fan Systems Toward Data Throughput Enhancement. , 2020, , . | | 8 |

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|---|---|---|---|
| 19 | Enhanced Universal Filtered-DFTs-OFDM for Long-Delay Multipath Environment. IEICE Transactions on Communications, 2020, E103.B, 467-475. | 0.7 | 0 |
| 20 | Analytical Model of Quantization Noise for In-Band Full-duplex Wireless Communications. , 2020, , . | | 5 |
| 21 | Development of Evaluation Platform for IEEE 802.22-based Highly Mobile WRAN Communication System with an SDR-based Receiver. , 2020, , . | | 1 |
| 22 | A High-speed Wi-SUN FAN Network by Highly-Dense Frequency Hopping. , 2020, , . | | 3 |
| 23 | Channel Modeling Algorithm for TVWS-based IEEE 802.22 WRAN System in Rural Areas. , 2020, , . | | 0 |
| 24 | 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 |
| 25 | Analysis and Experimental Verification of F-RIT Protocol for Wireless Smart Utility Network. , 2019, , . | | 3 |
| 26 | A Low-pass Filtered Time-domain Window for DFTs-OFDM to Reduce Out-of-band Emission with Low Complexity. , 2019, , . | | 4 |
| 27 | Performance Evaluation of Multi-hop Network Configuration for Wi-SUN FAN Systems. , 2019, , . | | 9 |
| 28 | IEEE 802.11af Wi-Fi in TV White Space. , 2019, , 1509-1535. | | 0 |
| 29 | User Throughput Enhancement with Dynamic Full-Duplex Cellular System in Dense Urban Multi-cell Environment. , 2019, , . | | 12 |
| 30 | UTW-OFDM-based 5G New Radio with Low Out-of-band Emission. , 2019, , . | | 5 |
| 31 | Possibility of Dynamic Spectrum Sharing System by VHF-band Radio Sensor and Machine Learning. , 2019, , . | | 4 |
| 32 | 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 |
| 33 | 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 |
| 34 | A Low Pass Filtered-Raised-Cosine Window for UTW-DFTs-OFDM. , 2018, , . | | 1 |
| 35 | A Frequency-domain ICI Cancellation Using Weight Matrix Based on Window Shape for Simplified UTW-OFDM. , 2018, , . | | 3 |
| 36 | Practical Analysis of CSL Low Power MAC Protocol Based on IEEE 802.15.4e Frame Structure. , 2018, , . | | 2 |

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| 37 | Performance Evaluation of Universal Time-domain Windowed GFDM-based LTE Uplink. , 2018, , . | | 0 |
| 38 | An Effective Near-Field Measurement Using Multicarrier Modulation Signal. , 2018, , . | | 0 |
| 39 | A Robust Channel Estimation for IEEE 802.22 Enabling Wide Area Vehicular Communication. , 2018, , . | | 6 |
| 40 | A TV White Space Wireless Broadband Prototype for Wireless Regional Area Network. , 2018, , . | | 4 |
| 41 | Macro-Cell Capacity Enhancement with Dynamic Full-Duplex Cellular System. , 2018, , . | | 16 |
| 42 | 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 |
| 43 | Experimental Evaluation and Analysis of F-RIT Low Power MAC Protocol Complied with IEEE 802.15.4e. , 2017, , . | | 1 |
| 44 | An Implementable Channel and CFO Estimation Scheme for IEEE 802.22-Based Radio Equipment. , 2017, , . | | 4 |
| 45 | Compact IEEE 802.22-based radio equipment enabling easy installation for regional area network system using TV white-spaces. , 2017, , . | | 4 |
| 46 | Enhanced UF-OFDM for Long-Delay Multipath Fading Environment. , 2017, , . | | 2 |
| 47 | A transceiver design of VHF band standardized broadband mobile communications systems. , 2017, , . | | 4 |
| 48 | Enhanced universal filtered-DFTs-OFDM for long-delay multi-path environment. , 2017, , . | | 2 |
| 49 | LTE uplink system based on universal timedomain windowed DFTs-OFDM. , 2017, , . | | 2 |
| 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 | Experimental evaluation of universal time-domain windowed OFDM-based LTE downlink system by real-time wave-shaping. , 2017, , . | | 0 |
| 53 | A dynamic routing protocol supporting mobile nodes in Wi-SUN FAN systems. , 2017, , . | | 4 |
| 54 | IEEE 802.15.4g Based Wi-SUN Communication Systems. IEICE Transactions on Communications, 2017, E100.B, 1032-1043. | 0.7 | 87 |

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| 55 | A comprehensive study of universal time-domain windowed OFDM-based LTE downlink system. , 2017, , . | | 9 |
| 56 | Performance evaluation of TD-LTE in VHF-band for large coverage public broadband communications system. , 2017, , . | | 5 |
| 57 | A UTW-OFDM without symbol overlapping process for small cell networks. , 2017, , . | | 1 |
| 58 | Time-domain channel equalization for subcarrier spacing compressed FDM with SC-MMSE turbo equalization receiver. , 2017, , . | | 0 |
| 59 | IEEE 802.11af Wi-Fi in TV White Space. , 2017, , 1-27. | | 1 |
| 60 | Feasibility Study of F-RIT Low-power Consumption MAC Protocol Complied with IEEE 802.15.4/4e for Wireless Smart Utility Networks. IEEJ Transactions on Electronics, Information and Systems, 2017, 137, 1461-1471. | 0.2 | 2 |
| 61 | Universal Time-Domain Windowed OFDM. , 2016, , . | | 16 |
| 62 | Development and field experiment of wide area Wi-SUN system based on IEEE 802.15.4g. , 2016, , . | | 21 |
| 63 | Ultra-low power MAC protocol complied with RIT in IEEE 802.15.4e for wireless smart utility networks. , 2016, , . | | 8 |
| 64 | Carrier frequency offset estimation scheme for IEEE 802.15.4g based wide area Wi-SUN systems. , 2016, , . | | 3 |
| 65 | An Ultra-low Power Consumption MAC Protocol Complied with IEEE 802.15.4/4e for Wireless Smart Utility Networks. IEEJ Transactions on Electronics, Information and Systems, 2016, 136, 1555-1566. | 0.2 | 9 |
| 66 | Developments and Practical Field Trials of TV White Space Technologies. , 2015, , 513-549. | | 0 |
| 67 | Path Loss and Throughput Estimation Models for an IEEE 802.11af Prototype. , 2015, , . | | 6 |
| 68 | IEEE 802.11af Indoor Experiment in UK Ofcom TVWS Trial Pilot Program. , 2015, , . | | 11 |
| 69 | Some Initial Results and Observations from a Series of Trials within the Ofcom TV White Spaces Pilot. , 2015, , . | | 16 |
| 70 | 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 |
| 71 | Adaptive time-domain windowing based transmit power control for TVWS-WLAN systems. , 2014, , . | | 2 |
| 72 | Field experiment of long-distance broadband communications in TV white space using IEEE 802.22 and IEEE 802.11af. , 2014, , . | | 14 |

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| 73 | 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 |
| 74 | 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 |
| 75 | Design and implementation of a Wi-Fi prototype system in TVWS based on IEEE 802.11 af. , 2013, , . | | 6 |
| 76 | IEEE802.11af with partial subcarrier system for effective use of TV white spaces. , 2013, , . | | 5 |
| 77 | 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 |
| 78 | Network Synchronization Scheme for Scalable Two-Way Multi-Hop Network Employing MIMO Network Coding. , 2012, , . | | 0 |
| 79 | Experiment on MIMO two-way relaying using transmit beamforming. , 2012, , . | | 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 | 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 |
| 82 | 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 |
| 83 | 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 |
| 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 | MIMO Radio Propagation Measurement for Two-Hop Relay Network on L-Shaped Corridor with Network Performance Analysis. , 2010, , . | | 2 |
| 86 | Network Synchronization for Two-Way Multi-Hop Relay Networks with Block Modulation. , 2010, , . | | 5 |
| 87 | Hardware Prototype for Two-Way Multi-Hop Relay Network with MIMO Network Coding. , 2010, , . | | 4 |
| 88 | Network throughput of TDD/TDMA two-way multi-hop relay network with MIMO network coding in indoor environment. , 2010, , . | | 1 |
| 89 | Underwater ultrasonic ranging by digital signal multiplexing with hadamard matrix. , 2009, , . | | 1 |
| 90 | Phase Shift Keying Acoustic Communication in Air with Impulse Response. Japanese Journal of Applied Physics, 2009, 48, 07GB06. | 1.5 | 1 |

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| 91 | 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 |
| 92 | 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 |
| 93 | Complexity suppression of neural networks for PAPR reduction of OFDM signal and its FPGA implementation. , 2008, , . | | 4 |
| 94 | 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 |
| 95 | A PAPR reduction of OFDM signal using neural networks with tone injection scheme. , 2007, , . | | 4 |