

### VTC2019-Fall Student Paper Award List

Winner	Title	Authors	Affiliation
Teruaki Shikuma	<b>NOMA-Based Optimal Multiplexing Method for Downlink Service Channels to Maximize Integrated System Throughput</b>	Teruaki Shikuma, Yasuaki Yuda, and Kenichi Higuchi	Tokyo University of Science
Yoji Uesugi	<b>Clustering of Signal Power Distribution Toward Low Storage Crowdsourced Spectrum Database</b>	Yoji Uesugi, Keita Katagiri, Koya Sato, Kei Inage, and Takeo Fujii	The University of Electro-Communications

### VTC2019-Fall Young Researcher's Encouragement Award List

Winner	Title	Authors	Affiliation
Liwen Wang	<b>A Study on Replica Generation Using LUT based on Information Bottleneck for MF-GaBP in Massive MIMO Detection</b>	Liwen Wang, Takumi Takahashi, Shinsuke Ibi, and Seiichi Sampei	Osaka University
Kenta Tsuge	<b>Parameter Estimation for Block Diagonalization based Hybrid Beamforming in Massive MIMO Communications</b>	Kenta Tsuge, Yuyuan Chang, Kazuhiko Fukawa, Satoshi Suyama, and Yukihiro Okumura	Tokyo Institute of Technology
Hoang D. Le	<b>Throughput Analysis of Incremental Redundancy Hybrid ARQ for FSO-based Satellite Systems</b>	Hoang D. Le, Vuong V. Mai, Chuyen T. Nguyen, and Anh T. Pham	The University of Aizu
Tomoya Kageyama	<b>Bit Error Rate Analysis of MRC Precoded Massive MIMO-OFDM Systems with Peak Cancellation</b>	Tomoya Kageyama and Osamu Muta	Kyushu University
Naoki Uji	<b>Online Probabilistic Activation Control of Base Stations Considering Both Uplink and Downlink System Throughput</b>	Naoki Uji, Yoshihisa Kishiyama, and Kenichi Higuchi	Tokyo University of Science
Fumiya Ishikawa	<b>Decentralized Probabilistic Frequency-Block Activation Control for Inter-cell Interference Coordination and Traffic Load Balancing</b>	Fumiya Ishikawa, Yoshihisa Kishiyama, and Kenichi Higuchi	Tokyo University of Science
Kentarou Taniyama	<b>Low Latency HARQ Method Using Early Retransmission Prior to Channel Decoding with Multistage Decision</b>	Kentarou Taniyama, Yoshihisa Kishiyama, and Kenichi Higuchi	Tokyo University of Science
Makoto Nakamura	<b>Performance Evaluation of Prefetching Algorithm for Realtime Edge Content Delivery in 5G System</b>	Makoto Nakamura, Hiroaki Nishiuchi, Khanh Tran Gia, Kei Sakaguchi; Konstantin Koslowski, Julian Daube, and Ricardo Santos	Tokyo Institute of Technology

Winner	Title	Authors	Affiliation
Tianji Shen	<b>A UAV-Aided Selective Relaying with Cooperative Jammers for Secure Wireless Networks over Rician Fading Channels</b>	Tianji Shen and Hideki Ochiai	Yokohama National University
Kyogo Ota	<b>Performance of Physical Cell ID Detection Probability Considering Frequency Offset for NR Radio Interface</b>	Kyogo Ota, Aya Shimura, Mamoru Sawahashi, and Satoshi Nagata	Tokyo City University
Kana Aono	<b>Performance of FDE Using Cyclic-Shifted CDM Based Pilot Signal Multiplexing for Single-Carrier LOS-MIMO</b>	Kana Aono, Bin Zheng, Mamoru Sawahashi, and Norifumi Kamiya	Tokyo City University
Go Otsuru	<b>User Allocation with Round-Robin Scheduling Sequence for Distributed Antenna System</b>	Go Otsuru, and Yukitoshi Sanada	Keio University
Show Shiono	<b>Latency of Uplink Non-orthogonal Multiple Access Grant-Free Transmission with Multiuser Detection in Base Station</b>	Show Shiono, Yukitoshi Sanada, Ryota Kimura, Hiroki Matsuda, and Ryo Sawai	Keio University
Takeshi Hirai	<b>NOMA Concept for PC5-based Cellular-V2X mode 4 in Crash Warning System</b>	Takeshi Hirai and Tutomu Murase	Nagoya University
Masumi Kuriyama	<b>Low Complexity and High Accuracy Channel Interpolation with Dividing URA into Small URAs for 3D Massive MIMO</b>	Masumi Kuriyama and Tomoaki Ohtsuki	Keio University
Tatsuya Mishina	<b>Buffer-Aided Virtual Full-Duplex Cooperative Networks Exploiting Source-To-Relay Broadcast Channels</b>	Tatsuya Mishina, Miharu Oiwa, Ryota Nakai, and Shinya Sugiura	Tokyo University of Agriculture and Technology
Takumi Ishihara	<b>Optimal and Suboptimal Power Allocation for SVD-Precoded Faster-than-Nyquist Signaling</b>	Takumi Ishihara and Shinya Sugiura	Tokyo University of Agriculture and Technology
Hiroyasu Shimizu	<b>Joint Channel Selection and Spatial Reuse for Starvation Mitigation in IEEE 802.11ax WLANs</b>	Hiroyasu Shimizu, Bo Yin, Koji Yamamoto, Motoki Iwata, Masahiro Morikura, Takayuki Nishio, and Hirantha Abeysekera	Kyoto University

Winner	Title	Authors	Affiliation
Asuka Ishii	<b>A New Real-Time Rate Control Friendly with TCP Hybla over Heterogeneous Networks</b>	Asuka Ishii, Yuto Usuki, Kazushige Nakagawa, Satoshi Utsumi, and Salahuddin Zabir	Fukushima University
Kyoya Teramae	<b>Enhancement of User Perceived Throughput in Sub-6 GHz Integrated Access and Backhaul with Dynamic Full-duplex</b>	Kyoya Teramae, Keiichi Mizutani, Takeshi Matsumura, and Hiroshi Harada	Kyoto University
Takumi Kurosaki	<b>Evaluation of Skype Video Call with TCP Variants over Satellite Networks</b>	Takumi Kurosaki, Yuki Hozumi, Yuto Usuki, Salahuddin Zabir, Satoshi Utsumi	Fukushima University
Fumiya Kemmochi	<b>Potential Design for Modulation and Coding Scheme in mmWave Multicarrier HetNets</b>	Fumiya Kemmochi, Kento Fujisawa, and Hiroyuki Otsuka	Kogakuin University
Kento Fujisawa	<b>Personal-Cell Scheme Using Adaptive Control CRE for Multicarrier HetNets</b>	Kento Fujisawa, Fumiya Kemmochi, and Hiroyuki Otsuka	Kogakuin University
Sumika Omata	<b>PAPR and BER Performances of Direct Spectrum Division Transmission Applied by Clipping and Filtering in ACI Environment</b>	Sumika Omata, Shirai Motoi, Takatoshi Sugiyama, Izumi Urata, and Fumihiko Yamashita	Kogakuin University
Toshinari Hayakawa	<b>GPS Calculated Distance Error Improvement by Planar Approximation of Pseudo Range in Many Skyscrapers Environments</b>	Toshinari Hayakawa, Norifumi Murai, and Takatoshi Sugiyama	Kogakuin University



表彰式の様子



表彰式の参加者