

Oral session

Dec. 2nd (Wed) 15:00-16:45 (JST)

Presentation time: 15 min, Q&A : 3-4 min

Session A1		Chair : Keisuke Noguchi (Kanazawa Institute of Technology)
A1-1	Performance Analysis of Single-carrier Modulation with Frequency Domain Equalization in Millimeter-wave and Terahertz Broadband Communications	Shuhei SAITO (Waseda University), Hirofumi SUGANUMA (Waseda University), Keita KURIYAMA (Nippon Telegraph and Telephone Corporation (NTT)), Yu ONO (Nippon Telegraph and Telephone Corporation (NTT)), Hayato FUKUZONO (Nippon Telegraph and Telephone Corporation (NTT)), Masafumi YOSHIOKA (Nippon Telegraph and Telephone Corporation (NTT)), Fumiaki MAEHARA (Waseda University)
A1-2	920-MHz IoT platform via LEO satellite employing feeder-link MIMO technology	Fumihiro Yamashita (Nippon Telegraph and Telephone Corporation (NTT)), Daisuke Goto (Nippon Telegraph and Telephone Corporation (NTT)), Yasuyoshi Kojima (Nippon Telegraph and Telephone Corporation (NTT)), Munehiro Matsui (Nippon Telegraph and Telephone Corporation (NTT)), Kiyohiko Itokawa (Nippon Telegraph and Telephone Corporation (NTT)), Kento Yoshizawa (Nippon Telegraph and Telephone Corporation (NTT)), Yosuke Fujino (Nippon Telegraph and Telephone Corporation (NTT)), Chihaya Kato (Japan Aerospace Exploration Agency (JAXA)), Mitsuhiro Nakadai (Japan Aerospace Exploration Agency (JAXA))
A1-3	A Study of Human Position Sensing with 77 GHz-band FMCW MIMO Radar Attached at Ceiling	Kazuya Yanashima (Nihon University), Yaokun Hu (Nihon University), Takeshi Toda (Nihon University)
A1-4	Tensor Decomposition Based Method for Multiset Blind Source Separation	Lu Wang (Keio University), Tomoaki Ohtsuki (Keio University)

Session B1		Chair : Naoki Kita (NTT)
B1-1	Future Prospects for Voice Communication in the Field of Clinical Medicine	Eisuke HANADA (Saga University)
B1-2	Study of a demultiplexing scheme for mode multiplexed signals using neural network signal processing	Naoya Takahashi (Keio University), Hiroyuki Tsuda (Keio University)
B1-3	Interference Management of Small Cell System for Micro Operator Using Spectrum Database and Multiobjective Evolutionary Algorithm under Stochastic Constraint	Tetsuki Taniguchi (The University of Electro-Communications), Takeo Fujii (The University of Electro-Communications)
B1-4	Clock timing synchronization among distributed multiple antennas for LEO-MIMO communications system	Daisuke Goto (Nippon Telegraph and Telephone Corporation (NTT)), Kiyohiko Itokawa (Nippon Telegraph and Telephone Corporation (NTT)), Fumihiro Yamashita (Nippon Telegraph and Telephone Corporation (NTT)), Chihaya Kato (Japan Aerospace Exploration Agency (JAXA)), Mitsuhiro Nakadai (Japan Aerospace Exploration Agency (JAXA))
B1-5	Effectiveness Evaluation of Polarization in UCA-based OAM Multiplexing	Yuki Ito (Waseda University), Shuhei Saito (Waseda University), Hirofumi Suganuma (Waseda University), Kayo Ogawa (Japan Women's University), Fumiaki Maehara (Waseda University)

Session C1		Chair : Nobuhiko Miki (Kagawa University)
C1-1	Evaluation of Asynchronous Successive Interference Cancellation for 5G in Shared Spectrum with Different Radio System	Ryochi KATAOKA (KDDI Research, Inc.), Issei KANNO (KDDI Research, Inc.), Toshinori SUZUKI (Tohoku Gakuin University), Hiroyasu ISHIKAWA (Nihon University), Kosuke YAMZAKI (KDDI Research, Inc.), Yoji KISHI (KDDI Research, Inc.)
C1-2	Verification of the Guidelines against the Interference due to the Spurious from the Multiple 920MHz RFIDs for the Triages	Masahiro WATANABE (Oita National College of Technology)
C1-3	Dynamic Control of AP Placement and Radio Parameters for Improving Throughput in Congested Areas	Toshiro NAKAHIRA (Nippon Telegraph and Telephone Corporation (NTT)), Motoharu SASAKI (Nippon Telegraph and Telephone Corporation (NTT)), Abeysekera HIRANTHA (Nippon Telegraph and Telephone Corporation (NTT)), Takatsune MORIYAMA (Nippon Telegraph and Telephone Corporation (NTT)), Yasushi TAKATORI (Nippon Telegraph and Telephone Corporation (NTT)), Daisuke GOTO (Nippon Telegraph and Telephone Corporation (NTT)), Takuto ARAI (Nippon Telegraph and Telephone Corporation (NTT))
C1-4	A Proposal of Throughput Allocation Method for Concurrently Communicating Two or Three Hosts in Wireless Local-Area Network	Md. Mahbubur Rahman (Okayama University), NobuoFunabiki (Okayama University), Kwenga Ismael Munene (Okayama University), Hendy Briantoro (Okayama University), Fatema Akhter (Okayama University), Minoru Kuribayashi (Okayama University), Md. Manowarul Islam (Jagannath University)
C1-5	A Proportional Differentiation Model using Slotted Aloha for Reservation-based MAC Protocols	Robithoh Annur (Tunku Abdul Rahman University), Norazira Jalil (Tunku Abdul Rahman University), Fatiha Subri (Tunku Abdul Rahman University), Lunchakorn Wuttisittikulij (Chulalongkorn University)

Session D1		Chair : Yoichi Sato (Open Systems Laboratory)
D1-1	A Study on Parallelization Method of TCP Connections Using Multiple Wavelengths and Cores for WDM-SDM Optical Packet Switching Networks	Yuusuke HASHIMOTO (Osaka Prefecture University), Yosuke TANIGAWA (Osaka Prefecture University), Yusuke HIROTA (National Institute of Information and Communications Technology (NICT)), Hideki TODO (Osaka Prefecture University)
D1-2	A repetitive router-switching scheme for achieving a metabolic router	Yuta MIYAOKA (Tokai University), Yu TAMURA (Tokai University), Junichi MURAYAMA (Tokai University)
D1-3	A route inheriting scheme for maintaining dynamic routes cleanly in a metabolic router	Yu TAMURA (Tokai University), Yuta MIYAOKA (Tokai University), Junichi MURAYAMA (Tokai University)
D1-4	An Efficient Algorithm for TI-LFA Rerouting Path Calculation	Kazuya Suzuki (Akita Prefectural University)
D1-5	Dynamic upper limit configuration of disaster general call blocking probability for emergency CAC	Tatsuya Kawase (Shibaura Institute of Technology), Sumiko Miyata (Shibaura Institute of Technology), Ken-ichi Baba (Kogakuin University), Katsunori Yamaoka (Tokyo Institute of Technology)

Session E1		Chair : Liu Zhi (Shizuoka University)
E1-1	Performance Evaluation of Table-based Access Control List Applied to IoT Data Distribution Method using Fog Computing	Masaki YOSHII (Kogakuin University), Ryohei BANNO (Kogakuin University), Osamu MIZUNO (Kogakuin University)
E1-2	A study on a backup controller placed on a cloud server for remote-controlled unmanned vehicles	Taro Watanabe (The National Defense Academy), Yudai Yoshimoto (The National Defense Academy), Ryohei Nakamura (The National Defense Academy), Hisaya Hadama (The National Defense Academy)
E1-3	Proposal of Transaction Processing Performance Improvement Technology of Blockchain	Toshiki SHIMAZU (Tokyo Denki University), Takeshi OGAWA (Tokyo Denki University)
E1-4	A packet processor implemented on Linux for a user programmable HTTP load balancer	Hiroaki Hata (National Institute of Technology, Fukui College), Yoichi Serizawa (Y2S Corporation)
E1-5	Reward and Penalty Mechanism in Proof-of-Stake Consensus Algorithm for Blockchain	Takeaki MATSUNAGA (Nara Institute of Science and Technology (NAIST)), Yuanyu ZHANG (Nara Institute of Science and Technology (NAIST)), Masahiro SASABE (Nara Institute of Science and Technology (NAIST)), Shoji KASAHARA (Nara Institute of Science and Technology (NAIST))

Oral session

Dec. 3rd (Thu) 9:00-10:45 (JST)

Presentation time: 15 min, Q&A : 3-4 min

Session A2		Chair : Tazuko Tomioka (Toshiba Corporation)
A2-1	Wireless power transmission system through human palm using NFC	Hina Watanabe (Chiba University), Masaharu Takahashi (Chiba University)
A2-2	Torsion sensing based on strain measurement of 4-fiber ribbon: feasibility investigation	Atsushi Nakamura (Nippon Telegraph and Telephone Corporation (NTT)), Daisuke Iida (Nippon Telegraph and Telephone Corporation (NTT))
A2-3	Position estimation for the capsule endoscope with algorithm considered angle character of receiving antenna	Akihiro Yoshitake (Chiba University), Kyohei Yoshida (Chiba University), Masaharu Takahashi (Chiba University)
A2-4	An Enhanced Line and Load Regulation Technique of Voltage-Mode Control for VRM	Daisuke Nakashima (Nagasaki University), Yoichi Ishizuka (Nagasaki University)
A2-5	Multi-directional Vital Signs Monitoring on Improved Complete Ensemble Empirical Mode Decomposition with Adaptive Noise using mm-Wave FMCW Radar	Yaokun Hu (Nihon University), Shunsuke Sato (Nihon University), Takeshi Toda (Nihon University)

Session B2		Chair : Daisuke Anzai (Nagoya Institute of Technology)
B2-1	A Bandwidth Control Method by Adaptive Multi-Band Selection for Spectrum Sharing Wireless Communication Systems	Naoto Takamatsu (Okayama University), Shigeru Tomisato (Okayama University), Kazuhiro Uehara (Okayama University), Satoru Shimizu (Advanced Telecommunications Research Institute International (ATR)), Yoshinori Suzuki (Advanced Telecommunications Research Institute International (ATR))
B2-2	Received Power Prediction using Multiple RGB cameras in Indoor Environment for Wireless LAN Systems	Kahoko Takahashi (Nippon Telegraph and Telephone Corporation (NTT)), Riichi Kudo (Nippon Telegraph and Telephone Corporation (NTT)), Tomoaki Ogawa (Nippon Telegraph and Telephone Corporation (NTT))
B2-3	Improvement of Maximum Transmission Efficiency and Misalignment Robustness by Using Electron-ring Shaped Coil for Wireless Power Transfer	Khemarakboth CHHOU (The University of Electro-Communications), Fengchao XIAO (The University of Electro-Communications), Yoshiki KAYANO (The University of Electro-Communications), Yoshio KAMI (The University of Electro-Communications)
B2-4	Machine-Learning Approach for Binary Classification of Signal Transmission Modes in Human Body Communication Channels	Ai-ichiro Sasaki (Kindai University), Kazuki Morita (Kindai University), Akinori Ban (Kindai University)
B2-5	Cross-layered Rate Adaptation for Robust and Low-Latency Video Transmissions Using Multi-AP WLAN	Kazuma Yamamoto (Kansai University), Hiroyuki Yomo (Kansai University)

Session C2		Chair : Kazuhiko Aikawa (Fujikura Limited)
C2-1	Coexisting transmission of SCM and 10GBB signals using new coding method that reduces power in low frequency band for CATV system	Tomoya Kusunoki (Japan Broadcasting Corporation (NHK)), Takuya Kurakake (Japan Broadcasting Corporation (NHK))
C2-2	Multi-core fiber rotation detectivity on side-view observation depending on core configurations and refractive index structure	Junya Takano (Sumitomo Electric Industries, Ltd.), Tetsu Morishima (Sumitomo Electric Industries, Ltd.), Manabu Shiozaki (Sumitomo Electric Industries, Ltd.), Tetsuya Nakanishi (Sumitomo Electric Industries, Ltd.), Tetsuya Hayashi (Sumitomo Electric Industries, Ltd.)
C2-3	Precise measurements and their analysis of GAWBS-induced depolarization noise in multi-core fiber for digital coherent transmission	Masato Yoshida (Tohoku University), Kozo Sato (Tohoku University), Toshihiro Hirooka (Tohoku University), Keisuke Kasai (Tohoku University), Masataka Nakazawa (Tohoku University)
C2-4	BER performance improvement of ultrahigh-speed coherent Nyquist pulse transmission using low-nonlinearity, dispersion-compensated transmission line with chirped FBG and LCoS	Kosuke Kimura (Tohoku University), Taro Iwaya (Tohoku University), Masato Yoshida (Tohoku University), Keisuke Kasai (Tohoku University), Toshihiro Hirooka (Tohoku University), Masataka Nakazawa (Tohoku University)
C2-5	Transmission performance of highly efficient modulation by collaborative linearization processing in both transmitter and receiver for LED visible light communications	Keitaro Hirai (Okayama University), Shigeru Tomisato (Okayama University), Satoshi Denno (Okayama University), Kazuhiro Uehara (Okayama University)

Session D2		Chair : Kiyohito Yoshihara (KDDI Research, Inc)
D2-1	FPGA implementation of parallel routing algorithm for three-stage Clos networks with component switch sizes of a power of two	Koloko Labson (Akita University), Hitoshi Obara (Akita University)
D2-2	Convergence Improvement for Practical Delay-based Congestion Control	Shotaro Ishikura (Kansai University), Miki Yamamoto (Kansai University)
D2-3	A repetitive network switching scheme without packet forwarding interruption for achieving a metabolic network	Kosei YODA (Tokai University), Yu TAMURA (Tokai University), Yuta MIYAOKA (Tokai University), Junichi MURAYAMA (Tokai University)
D2-4	Survey and comparison of Interworking point routing mechanisms for IoT services in wide area ICNs	Tetsuya YOKOTANI (Kanazawa Institute of Technology), Shinichi YAMAMOTO (Kanazawa Institute of Technology), Shuichi OHNO (Kanazawa Institute of Technology), Keiji SASABAYASHI (Kanazawa Institute of Technology), Koichi ISHIBASHI (Kanazawa Institute of Technology)
D2-5	Evaluation of Network Resource Allocation Based on Monitored Traffic Condition inspired by Human Brain Cognition Process	Semin AN (Osaka University), Yuichi OHSITA (Osaka University), Masayuki MURATA (Osaka University)

Session E2		Chair : Tutomu Murase (Nagoya University)
E2-1	Distributed Route Selection under Consideration of Time Dependency among Agents' Road Usage for Vehicular Networks	Takanori HARA (Nara Institute of Science and Technology (NAIST)), Masahiro Sasabe (Nara Institute of Science and Technology (NAIST)), Shoji Kasahara (Nara Institute of Science and Technology (NAIST))
E2-2	Independence of the Fundamental Equation of the Oscillation Model on Algebraic Representations: Social Media Echo Chamber Effect	Kakeru Ohki (Tokyo Metropolitan University), Ayako Hashizume (Hosei University), Masaki Aida (Tokyo Metropolitan University)
E2-3	Study of Fatigue Measurement Method for Automobile Driving Workers	Toshie Matsumura (National Institute of Technology, Nara College), Emi Kawamura (National Institute of Technology, Nara College), Hideki Hashimoto (Proassist, Ltd.), Hiroki Yoshimura (Tottori University), Tadaaki Shimizu (Tottori University)
E2-4	A Novel Distributed Deep Learning Training Scheme Based on Distributed Skip Mesh List	Masaya Suzuki (Kindai University), Kimihiro Mizutani (Kindai University)
E2-5	A Study on Query Transfer Using Different Two Skip Graphs for Searching Spatially-Autocorrelated Data	Yuuki Fujita (Wakayama University), Akihiro Fujimoto (Wakayama University), Hideki Tode (Osaka Prefecture University)

Oral session

Dec. 3rd (Thu) 15:00-16:45 (JST)

Presentation time: 15 min, Q&A : 3-4 min

Session A3		Chair : Kentaro Saito (Tokyo Institute of Technology)
A3-1	Theoretical Analysis of Sheathed Dipole Antenna with PVC-cover for Seawater Use	Xu Shuangyue (Tohoku University), Sato Hiroyasu (Tohoku University), Chen Qiang (Tohoku University)
A3-2	Beam Gain Management under 3-dimensional Interference Constraint for High Efficiency Spectrum Sharing	Rei Hasegawa (Panasonic Corporation), Yuzo Moriuchi (Panasonic Corporation), Noriyui Shimizu (Panasonic Corporation), Takeshi Yasunaga (Panasonic Corporation), Hideki Kanemoto (Panasonic Corporation)
A3-3	Basic concept of dual-band differential rectenna for 2.45- and 5.8- GHz Wireless Power Transfer	Kento Saito (Saga University), Eisuke Nishiyama (Saga University), Ichihiko Toyoda (Saga University)
A3-4	Identification of bedsores stages using electromagnetic waves for noncontact detection system	Hiroki Kobayashi (Chiba University), Masaharu Takahashi (Chiba University)
A3-5	An Effect of Coherent Integration Method on Pedestrian Detection in Urban-Narrow Bicycle-Pedestrian-Road with 77GHz FMCW Radar	Taik Irie (Nihon University), Yaokun Hu (Nihon University), Takeshi Toda (Nihon University)

Session B3		Chair : Takuya Fujihashi (Osaka University)
B3-1	Sensing Data Compression with Adaptive Time Span and Compensation of Irregular Data for Spectrum Sensing in Exploiting White Space	Kenichiro Yamamoto (Shinshu University), Osamu Takyu (Shinshu University), Yasushi Fuwa (Shinshu University)
B3-2	Application of Throughput Drop Estimation Model under Partially Overlapping Channels to Channel Assignment in IEEE 802.11n WLAN	Kwenga Ismael Munene (Okayama University), Nobuo Funabiki (Okayama University), Hendy Briantoro (Okayama University), Md. Mahbubur Rahman (Okayama University), Fatema Akhter (Okayama University), Minoru Kuribayashi (Okayama University)
B3-3	SVD-MIMO Transmission Scheme for Enhancing Channel Polarization of Polar Codes	Takayuki Shinomiya (Chiba Institute of Technology), Takahiko Saba (Chiba Institute of Technology)
B3-4	Area-based Primary Protection with Antenna Rotation Prediction for Dynamic Spectrum Access	Hiroto Kuriki (Sony Corporation), Keita Onose (Sony Corporation), Ryota Kimura (Sony Corporation), Ryo Sawai (Sony Corporation)
B3-5	Transmission performance of a digital pre-distortion method followed by adaptive compander for LED visible light communications	Saroma Era (Okayama University), Shigeru Tomisato (Okayama University), Satoshi Denno (Okayama University), Kazuhiro Uehara (Okayama University)

Session C3		Chair : Kazuhiko Aikawa (Fujikura Limited)
C3-1	A Multi-path Routing Method with Traffic Grooming corresponding to Path Lengths in Elastic Optical Networks	Motoi Kato (Kogakuin University), Baba Ken-ichi (Kogakuin University)
C3-2	Functional Verification of Least Congested Routing for Dynamic Multicasting in Optical Packet Switching Networks	Yuya SEKI (Osaka Prefecture University), Yuusuke HASHIMOTO (Osaka Prefecture University), Kosuke KUBOTA (Osaka Prefecture University), Akihiro FUJIMOTO (Wakayama University), Yosuke TANIGAWA (Osaka Prefecture University), Yusuke HIROTA (National Institute of Information and Communications Technology(NICT)), Hideki TODE (Osaka Prefecture University)
C3-3	Experimental Verification of Proximity-based Localization using Motion Sensors	Shino SHIRAKI (Chiba University), Yuto OHASHI (Chiba University), Takuhiro UEHARA (Chiba University), Shigeo SHIODA (Chiba University)
C3-4	Development of Data Collection Platform for Running Cars by using 920MHz LoRa Communication in Urban Area	Yasufumi Niwa (Kyushu Institute of Technology), Daiki Nobayashi (Kyushu Institute of Technology), Kazuya Tsukamoto (Kyushu Institute of Technology), Takeshi Ikenaga (Kyushu Institute of Technology)
C3-5	Numerical Demonstration of Successive Interference Canceller for Uplink Power-Domain NOMA-based Coherent PON System	Kosuke Suzuoki (Osaka University), Daisuke Hisano (Osaka University), Kazuki Maruta (Tokyo Institute of Technology), Akihiro Maruta (Osaka University)

Session D3		Chair : Taku Yamazaki (Shibaura Institute of Technology)
D3-1	A Trust Model for Information Dissemination in Social Networking Services	Radifan Fitrah Muhammad (Nara Institute of Science and Technology (NAIST)), Shoji Kasahara (Nara Institute of Science and Technology (NAIST))
D3-2	K-Factor Estimation based on Spectrogram Images by Convolutional Neural Network	Shun Kojima (Chiba University), Kosuke Shima (Chiba University), Kazuki Maruta (Tokyo Institute of Technology), Chang-Jun Ahn (Chiba University)
D3-3	Fast Approximation of the Time Delay Estimation using Persistent Homology	Koya Oyama (Meiji University), Riki Watabe (Meiji University), Hiroyuki Kamata (Meiji University)
D3-4	A Model of Polarization on Social Media Caused by Empathy and Repulsion	Naoki Hirakura (Tokyo Metropolitan University), Masaki Aida (Tokyo Metropolitan University), Konosuke Kawashima (Tokyo Metropolitan University)
D3-5	Joint Effect of QoE-Based Video Output Scheme SCS and MMT AL-FEC on QoE of H.264 Video and Audio Transmission	Toshiro Nunome (Nagoya Institute of Technology), Takaya Kiyomiya (Nagoya Institute of Technology)

Session E3		Chair : Kiyohito Yoshihara (KDDI Research, Inc)
E3-1	A Study on Improvement of BitTorrent Pieces Acquisition Efficiency by Introducing Collaborative Group of Nearby Peers	Yusuke Hayashi (Wakayama University), Akihiro Fujimoto (Wakayama University), Hideki Tode (Osaka Prefecture University)
E3-2	Accurate Mobile Traffic Generation Scheme without Coarse-grained Data Using Conditional SR-GAN	Tomoki Tokunaga (Kindai University), Kimihiro Mizutani (Kindai University)
E3-3	GA-based feature selection for QoE estimation using EEG during video viewing	Kasumi Kitao (Osaka University), Daichi Kominami (Osaka University), Masayuki Murata (Osaka University)
E3-4	Evaluation of Coverage from a Perspective of Transmission Delay for TV Remote Production	Junichiro Kawamoto (Japan Broadcasting Corporation (NHK)), Ryo Shirato (Japan Broadcasting Corporation (NHK)), Tsuyoshi Nakatogawa (Japan Broadcasting Corporation (NHK)), Takuya Kurakake (Japan Broadcasting Corporation (NHK))

Oral session

Dec. 4th (Fri) 9:00-10:45 (JST)

Presentation time: 15 min, Q&A : 3-4 min

Session A4		Chair : Keisuke Noguchi (Kanazawa Institute of Technology)
A4-1	Development of an Active Millimeter Wave Imaging System Using Leaky-Wave Focusing Antenna	Kevin Kipruto Mutai (Tohoku University), Hiroyasu Sato (Tohoku University), Qiang Chen (Tohoku University)
A4-2	An Invisible MIMO Antenna Integrated within a Touch Screen Panel for 5G Smartphone	KOSUKE Fujita (Chiba University), MASA HARU Takahashi (Chiba University)
A4-3	A Study of Heart Waveforms Simulation with Liner Actuator for 77GHz FMCW Radar	Hayato Shinohara (Nihon University), Yaokun Hu (Nihon University), Takeshi Toda (Nihon University)
A4-4	A Study of Heart Rate Estimation on Empirical Mode Decomposition with mm-Wave FMCW Radar	Ryosuke Koyanaka (Nihon University), Yaokun Hu (Nihon University), Takeshi Toda (Nihon University)
A4-5	Design of Dual-Beam Switchable Self-Oscillating Active Array Antenna Integrating Positive Feedback Type Push-Push Oscillator and PSK Modulator	Maodudul HASAN (Saga University), Eisuke NISHIYAMA (Saga University), Takayuki TANAKA (Saga University), Ichihiko TOYODA (Saga University)

Session B4		Chair : Yuyuan Chang (Tokyo Institute of Technology)
B4-1	A Comparison of Distance Performances of Modulation Schemes in an ITS Image Sensor Communication	Takuya YAMAMOTO (Nagoya University), Takaya YAMAZATO (Nagoya University), Hiraku OKADA (Nagoya University), Masayuki KINOSHITA (Chiba Institute of Technology), Koji KAMAKURA (Chiba Institute of Technology), Shintaro ARAI (Okayama University of Science), Tomohiro YENDO (Nagaoka University of Technology), Toshiaki FUJII (Nagoya University)
B4-2	A Two-stage Coding Scheme by Using Two Kinds of PN Codes for RGB Parallel Optical Wireless Communication	Koki Taruishi (Ibaraki University), Yusuke Kozawa (Ibaraki University), Hiromasa Habuchi (Ibaraki University)
B4-3	A study on automatic modulation classification of digital modulation signals using Convolutional Neural Network	Yutao Liu (Okayama University), Toru Nishiyama (Okayama University), Shigeru Tomisato (Okayama University), Kazuhiro Uehara (Okayama University)
B4-4	28 GHz-Band Outdoor Experimental Trials of Base Station Cooperation with Digital BF in High-Mobility Environments	Tatsuki Okuyama (NTT DOCOMO, INC.), Nobuhide Nonaka (NTT DOCOMO, INC.), Satoshi Suyama (NTT DOCOMO, INC.), Yukihiko Okumura (NTT DOCOMO, INC.), Takahiro Asai (NTT DOCOMO, INC.)
B4-5	Adaptive MIMO mode-switching scheme for flexible 5G URLLC transmission	Yusaku Shiomitsu (Nagoya Institute of Technology), Eiji Okamoto (Nagoya Institute of Technology), Manabu Mikami (Softbank Corp.), Hitoshi Yoshino (Softbank Corp.)

Session C4		Chair : Hiroaki Morino (Shibaura Institute of Technology)
C4-1	A study on window function and window width of STFT in collision signal separation and demodulation method using stored batch signal processing	Toru Nishiyama (Okayama University), Takuyuki Hirakawa (Okayama University), Syo Nakaie (Okayama University), Shigeru Tomisato (Okayama University), Satoshi Denno (Okayama University), Kazuhiro Uehara (Okayama University)
C4-2	Time correlation evaluation between rainfall and attenuation in satellite link using vector autoregression	Yutaka Nakagawa (Nara Institute of Science and Technology (NAIST)), Takeshi Higashino (Nara Institute of Science and Technology (NAIST)), Minoru Okada (Nara Institute of Science and Technology (NAIST))
C4-3	Phase Noise Compensation Method Using LMS Algorithm and PLL for FDE in Frequency-Selective Fading Channels	Kana Aono (Tokyo City University), Mamoru Sawahashi (Tokyo City University)
C4-4	Radio Frame Timing Detection Method in Multipath Fading Channels for NR Initial Access	Kyogo Ota (Tokyo City University), Daisuke Inoue (Tokyo City University), Mamoru Sawahashi (Tokyo City University), Satoshi Nagata (NTT DOCOMO, INC.)
C4-5	Wireless LAN communication using multiple antenna access points in narrow sewers	Seiya Tachibana (Shizuoka University), Susumu Ishihara (Shizuoka University)

Session D4		Chair : Hiroaki Mukai (Kanazawa Institute of Technology)
D4-1	Experiments of Multipath Multicast One-to-many Transfer with RS coding over Wide-Area OpenFlow Testbed Network	Masayuki KURATA (Kyushu Institute of Technology), Masahiro SHIBATA (Kyushu Institute of Technology), Masato TSURU (Kyushu Institute of Technology)
D4-2	A study of cascading failure on power network	Masahiro Hayashi (Tokyo City University)
D4-3	Performance Evaluation of MPTCP-based IoT Router with Multiple Radios	Taichi Tsuru (Chiba University), Kien Nguyen (Chiba University), Hiroo Sekiya (Chiba University)
D4-4	Extended MRC for Fast Failure Recovery and Effective Resource Utilization in Network Slicing	Yu QIANG (University of Fukui), Fu JIAWEI (University of Fukui), Takuji TACHIBANA (University of Fukui)

Session E4		Chair : Yosuke Tanigawa (Osaka Prefecture University)
E4-1	Route suggestion for vehicles inspired by the cognitive process of a human brain and its relation to predictive control of communication networks	Yuichi Ohsita (Osaka University), Masayuki Murata (Osaka University)
E4-2	New Disaster Detection Method with Integration of Sensor Information and Human Detection for Emergency Rescue Evacuation Support System (ERESE)	Yuta Kanayama (Kansai University), Tomotaka Wada (Kansai University), Kazuhiro Ohtsuki (Kobe University)
E4-3	A route searching method using two-dimension coordinates	Manami Ogawa (Nippon Telegraph and Telephone Corporation (NTT)), Syunsuke Kanai (Nippon Telegraph and Telephone Corporation (NTT)), Satoshi Suzuki (Nippon Telegraph and Telephone West Corporation (NTT WEST)), Kenichi Tayama (Nippon Telegraph and Telephone Corporation (NTT))
E4-4	Technology to Counter Online Flaming Based on the Frequency-Dependent Damping Coefficient in the Oscillation Model	Shinichi Kikuchi (Tokyo Metropolitan University), Chisa Takano (Hiroshima City University), Masaki Aida (Tokyo Metropolitan University)