

Invite Special Sessions, Invite Sessions, Oral Sessions, and Poster Sessions

Invite Special 1	
Nov. 29 (Wed) 13:00-14:40, Room 1070 (10F), Chair: Makoto Taromaru (Fukuoka University)	
IS1-1	Wireless link quality prediction using spatial information Riichi Kudo, Kahoko Takahashi, Hisashi Nagata, Tomoya Kageyama (NTT)
IS1-2	Blind Signal Separation Using Mathematical Model for Radar-Based Measurement of Pulse Wave Propagation Takuya Sakamoto (Kyoto University)
IS1-3	Development of High Accurate Vegetation Loss Model with Seasonal Characteristics for High-Altitude Platform Station Hideki Omote, Akihiro Sato, Sho Kimura, Shoma Tanaka and HoYu Lin (SoftBank Corp.)
IS1-4	Multishape radio: new approach to utilizing the physical properties of electromagnetic waves Doohwan Lee, Yasunori Yagi, Hiroyuki Shiba (NTT)

Invite Special 2	
Nov. 30 (Thu) 13:00-14:15, Room 1070 (10F), Chair: Osamu Muta (Kyushu University)	
IS2-1	UAV-Based Wave Source Localization in NLOS Environments Shinichi Murata (Koden Electronics Co., Ltd. , Tokyo Metropolitan University), Takahiro Matsuda (Tokyo Metropolitan University), Takefumi Hiraguri (Nippon Institute of Technology)
IS2-2	Future Challenges for EMC Research & Standardization Activities in Telecommunication Service toward Innovative and Sustainable Society in 2040 Kimihiro TAJIMA, Ryuichi KOBAYASHI, Tetsuya TOMINAGA, and Yoshiharu AKIYAMA (NTT Advanced Technology Corporation)
IS2-3	Sigma-Delta Beamformer DOA Estimation for Distributed Array Radar Toshihiro Ito (Mitsubishi Electric Corporation), Shoji Matsuda (Mitsubishi Electric Corporation), Yoshiya Kasahara (Kanazawa University)

Invite Special 3	
Nov. 30 (Thu) 15:00-16:15, Room 1070 (10F), Chair: Yusuke Hirota (NICT)	
IS3-1	OTDR technique for evaluating construction quality at splice points of multi-core fibers Atsushi Nakamura and Yusuke Koshikiya (NTT)
IS3-2	Development of Electrically Insulated Antenna System Using Optical Fiber for Lightning Protection of Radio Equipment Kensuke Ikeda (Central Research Institute of Electric Power Industry)
IS3-3	Fiber-Nonlinearity Mitigation Using Optical Phase Conjugation in Lumped-Amplified WDM Transmission over NZ-DSF Link Shimpei Shimizu, Takayuki Kobayashi, Takeshi Umeki, Takushi Kazama, Koji Enbutsu, Ryoichi Kasahara, and Yutaka Miyamoto (NTT)

Invite Special 4	
Dec. 1 (Fri) 11:10-12:25, Room 1070 (10F), Chair: Takaya Miyazawa (NICT)	
IS4-1	Low-latency and energy-efficient networking on a commodity server Kei FUJIMOTO, Ko NATORI, Masashi KANEKO, Akinori SHIRAGA (NTT)
IS4-2	Latency Visualization Method for Improving Driving Accuracy of Teleoperated Vehicles Aoi Koizuka, Tomohiko Ogishi, Shuntaro Kashiara (KDDI CORPORATION)
IS4-3	Chatbot SOCCA: ICT applications for disaster response and disaster management Masatsugu Hangyo, Hiroki Azuma, Tamami Kamiya, Kiyonori Ohtake

Invite 1	
Nov. 29 (Wed) 13:00-14:40, Room 1040 (10F), Chair: Taku Yamazaki (Shibaura Institute of Technology)	
I1-1	Development and evaluation of IoT systems utilizing various sensing technologies for supporting people's activities in real space Hiroshi Yamamoto (Ritsumeikan University)
I1-2	Social Behavior Change Method by Introducing the Concept of Ainori Akinari Sakai (NTT DOCOMO, INC.)
I1-3	Interference Voltage Measurement for Wireless Power Transfer Using an Electro-Optical Converter for EMI Assessment of Active Implantable Medical Devices Takashi Hikage (Hokkaido University)
I1-4	High-Power Transmission Technologies for Radio-Over-Fiber in Beyond 5G Networks Motoharu Matsuura (University of Electro-Communications)

Invite 2	
Nov. 29 (Wed) 15:00-16:15, Room 1040 (10F), Chair: Takeo FUJII (The University of Electro-Communications)	
I2-1	Recent Progress in Array Signal Processing for Millimeter-wave Imaging Radar Hiroyoshi Yamada (Niigata University)
I2-2	Digital Self-Interference Cancellations Considering Amplifier Nonlinearity and Mixer Imbalance for In-Band Full-Duplex Radios Yuichi Miyaji (Aichi Institute of Technology)
I2-3	A Study on the Rain Attenuation Characteristics using Multiple Ku-band Satellite Signals and Rain Area Motion Yasuyuki Maekawa (Osaka Electro-Communication University), Koichi Harada (NTT Access Network System Laboratories), Junichi Abe (NTT Access Network System Laboratories), Fumihito Yamashita (NTT Access Network System Laboratories)

Invite 3	
Nov. 30 (Thu) 15:00-16:15, Room 1040 (10F), Chair: Takeo Ohgane (Hokkaido Univ.)	
I3-1	Wideband Interference Mitigation for Automotive mmWave Radar: From Algorithm-based to Learning-based Methods Xiaoyan Wang (Ibaraki University)
I3-2	Experimental Analysis of Indoor Localization Using Channel State Information in WLAN Systems Osamu Muta (Kyushu University)
I3-3	Electromagnetic Information Leakage from Cryptographic Hardware and Simulation Method for Secure Design Kengo Iokibe (Okayama Univ.)

Invite 4	
Dec. 1 (Fri) 11:10-12:25, Room 1040 (10F), Chair: Takuji Tachibana (Univ. of Fukui)	
I4-1	Recent Progress of Multi-Band Optical Networking Technologies toward Realizing IOWN All-Photonics Network Masahiro Nakagawa (NTT)
I4-2	Evolution and Future Prospects of Graph Generation Models Kohei Watabe (Nagaoka University of Technology)
I4-3	Decoding Complexity Reduction of Forward Error Correction by Channel-polarized Multilevel Coding Takeshi Kakizaki (NTT)

Oral 1: Optical communications and networking 1	
Nov. 29 (Wed) 13:00-14:20, Room 1060 (10F), Chair: Keizo Cho (Chiba Institute of Technology)	
O1-1	Circular Light-trail Signals Detection using Rotation Coordinates Transform for LED-propeller based Image Sensor Communication Zhengqiang Tang, Takaya Yamazato (Nagoya University), Shintaro Arai (Okayama University of Science)
O1-2	A synchronization method for LDPC decoding in visible light communication system using dual orthogonal rolling shutter image sensors Ayumu Otsuka, Zhengqiang Tang, Takaya Yamazato (Nagoya University)
O1-3	A Study on Scattering Electromagnetic Field Calculation from Finite Length Conductor Rod by PO approximation Yusuke Kusama, Kazuma Kabasawa (Toyo University)
O1-4	Amplified-spontaneous-emission nonlinear circuit technique with improved optical power resolution Kokoro Kitamura, Md Golam Barkatul Abrar, Kunihiro Tanaka, Ryuga Harada, Hiroji Masuda (Shimane University)

Oral 2: Optical communications and networking 2	
Nov. 29 (Wed) 15:00-16:20, Room 1060 (10F), Chair: Yusuke Hirota (NICT)	
O2-1	Evaluation of BCOM-based bandwidth allocation for predictable traffic Yuki Hatanaka (Kanazawa Institute of Technology), Tetsuya Yokotani (Kanazawa Institute of Technology), Ryo Murakami (Kanazawa Institute of Technology), Yuta Tachikawa (Kanazawa Institute of Technology), Hiroshi Mineno (The Graduate School of Science and Technology, Shizuoka University), Seiji Kozaki (The Graduate School of Science and Technology, Shizuoka University), Mitsubishi Electric Corporation), Takeshi Suehiro (Mitsubishi Electric Corporation), Kenichi Nakura (Mitsubishi Electric Corporation), Satoshi Shirai (Mitsubishi Electric Corporation)

O2-2	A Low Computational Complexity QoT Estimation Method for IM-DD Based End-to-end Optical Networks	Ryo Igarashi, Ryo Koma, Kazutaka Hara, Jun-ichi Kani, Tomoaki Yoshida (NTT corporation)
O2-3	Sort order scheme for assigning local traffic demands to spatial channel networks	Kako Matsumoto, Koki Miura, Masahiko Jinno (Kagawa University)
O2-4	A Dispersion-Tolerant Symbol Constellation of Stokes-Vector Modulation for Short-Reach Fiber Links	Shunta Asahina, Joji Maeda (Tokyo University of Science)

Oral 3: Wireless communications

Nov. 30 (Thu) 13:00-14:40, Room 1060 (10F), Chair: Shinsuke Ibi (Doshisha University)

O3-1	Phase Noise Compensation for Beyond 5G Virtualized Terminal with MIMO	Yasuaki Yuda, Shotaro Maki, Tomohiro Kimura, Akihiko Nishio (Panasonic Holdings Corporation)
O3-2	Design of Dual Circularly Polarized Array Antenna with Beam Switching Functionality Using Hybrid Coupler and Phase Shifters	Maodudul Hasan, Eisuke Nishiyama, Ichihiko Toyoda (Saga University)
O3-3	16QAM-OFDM Receiver Using 1-bit ADC that Utilizes Noise and Performs Frequency Conversion in the Digital Domain Characterization in a Frequency Flat Rician Fading Channel	Arata Isozaki (Nagoya University), Takaya Yamazato (Nagoya University), Masato Saito (University of Ryukyus)
O3-4	Investigating Indicators for LPWA-based Congestion Estimation in Large-scale Indoor Environments	Eri Hosonuma (The University of Tokyo), Taku Yamazaki (Shibaura Institute of Technology), Takumi Miyoshi (Shibaura Institute of Technology, The University of Tokyo), Akihiro Taya (The University of Tokyo), Yuuki Nishiyama (The University of Tokyo), Kaoru Sezaki (The University of Tokyo)
O3-5	An SPM detection based on GNSS-derived ZTD with azimuth angle filtering	Hiroto Yorioka, Yutaka Nakagawa, Takeshi Higashino, Minoru Okada (Nara Institute of Science and Technology)

Oral 4: Networking Technologies

Dec. 1 (Fri) 9:50-10:50, Room 1060 (10F), Chair: Kiyohito Yoshihara (KDDI R&D Research)

O4-1	Multi-AP coordinated resource allocation for video transmissions with multiple requirements	Ryota Yamada, Hiromichi Tomeba, Osamu Nakamura, Takuhiro Sato, Yasuhiro Hamaguchi (Sharp Corporation)
O4-2	An evaluation of scheduling schemes on multi-AP multi-stream transmission for sub-terahertz band	Osamu Nakamura, Ryota Yamada, Hiromichi Tomeba, Yasuhiro Hamaguchi (Sharp corporation)
O4-3	Preliminary Study to Enhance Robustness of the Location-Aware Resource Assignment for Users Based on the Advection Diffusion	Keita Tatebe, Yusuke Sakamoto (Kwansei Gakuin University)

Oral 5: Security Technologies

Dec. 1 (Fri) 11:10-12:30, Room 1060 (10F), Chair: Yuuichi Teranishi (NICT)

O5-1	Physical Layer Security in Untrusted Relay Networks with Alamouti Space-Time Block Coding	Shen Qian (Kanagawa University), Xiaobo Zhou (Tianjin University)
O5-2	Disaggregation architecture of quantum-safe security for optical & packet transport equipment	Atsushi Taniguchi (NTT Network Innovation Laboratories), Yasuhiro Mochida (NTT Network Innovation Laboratories), Sakae Chikara (NTT Social Information Laboratories), Yasuyuki Sanari (NTT Network Innovation Laboratories), Keizo Murakami (NTT Social Information Laboratories), Momoko Miura (NTT Network Innovation Laboratories), Hirokazu Takahashi (NTT Network Innovation Laboratories), Koichi Takasugi (NTT Network Innovation Laboratories), Hiroki Itoh (NTT Social Information Laboratories), Daigoro Yokozeki (NTT Social Information Laboratories)
O5-3	A Jitter-Constrained Multilayer Path Design Method for Reconfigurable In-network Security Sensor Network	Ryuta Murakami, Takashi Kurimoto, Satoru Okamoto, Naoaki Yamanaka (Keio University)
O5-4	Comparison of Two Person Identification Methods using Radar Extracted Heartbeat Signals	Kai Liu, Zeling Xing, Mondher BOUAZIZI, Tomoaki OHTSUKI (Keio University)

Poster Session 1

Nov. 29 (Wed) 16:30-18:00, Exhibition Hall (1F)

P1-1	Architectural problems related to wireless communication in hospitals and measures to ensure stable operation	Eisuke Hanada (Saga University), Takato Kudou (Oita University)
P1-2	Intersection safe driving support device using microwave sensor, 920MHz and BLE	Shintaro Uno (Aichi University of Technology)
P1-3	Prototype Design of a Human Activity Recognition and Fall Prediction System Based on Infrared Array Sensors.	NISHAT TASNIM NEWAZ (Department of Information Science and Engineering, Saga University), Eisuke Hanada (Faculty of Science and Engineering, Saga University)
P1-4	Just intonation is better than equal temperament for transmitting melodic messages in sound communication	Naofumi Aoki (Hokkaido University), Kosei Ozeki (Hokkaido University), Kenichi Ikeda (Smart Solution Technology, Inc.), Hiroshi Yasuda (Smart Solution Technology, Inc.), Hiroyuki Namba (Smart Solution Technology, Inc.)
P1-5	Optical power delivery with suppressed fiber fuse in SMF at a wavelength of 1 μm	Masahiro Ono (Kitami Institute of Technology), Kenji Kurokawa (Kitami Institute of Technology), Masaki Wada (NTT Laboratories), Kohei Ohmoto (NTT Laboratories), Takashi Matsui (NTT Laboratories), Kazuhide Nakajima (NTT Laboratories)
P1-6	A Repeated Stochastic Game Approach for Offload Mining in Distributed Applications in a Permissionless Blockchain Network	Kota Yamada, Takanori Hara, Shoji Kasahara (Nara Institute of Science and Technology)
P1-7	A Design of Miniaturized Patch Antenna with Circular Polarization for Earth Sensing Platform via LEO Satellite	Hayato Furumido (Hokkaido University), Takashi Hikage (Hokkaido University), Manabu Yamamoto (Hokkaido University), Kazumitsu Sakamoto (NTT Network Innovation Laboratories, NTT Corporation), Yosuke Fujino (NTT Network Innovation Laboratories, NTT Corporation)
P1-8	Protecting a Multicast Session Minimizing User Impact of Link Failures	Saki Sakurai, Katsuki Higashimori (NTT Network Innovation Laboratories, NTT Corporation)
P1-9	Goodput Performance of LDPC-based HARQ Protocol in FSO-based Vertical Systems	Cuong Trong Nguyen, Hoang Doan Le, Anh Tuan Pham (The University of Aizu)
P1-10	Simple Method for Measuring Spatial Mode Dispersion in Coupled Multi-Core Fibers without Accessing Both Ends	Junpei Hayakawa, Atsushi Nakamura, Masaki Nakamori, Yusuke Koshikiya (NTT Access Network Service Systems Laboratories)
P1-11	Energy Efficiency Performance of Optical Satellite-based Adaptation Systems with Channel Prediction	Tinh Van Nguyen, Hoang Doan Le, Anh Tuan Pham (The University of Aizu)
P1-12	A Study on Features for Internet Security Analysis Using Machine Learning	Tomoaki Koyama, Kohei Shiimoto (Tokyo City University)
P1-13	Experiments of node's automatic participation and collaboration with external services on AMec (Access-Metro Edge Computing)	Koki Muramatsu, Masaki Murakami, Yoshihiko Uematsu, Satoru Okamoto, Naoaki Yamanaka (Keio University)
P1-14	A 2-Dimensional Smoothing Technique in Non-stationary Environments	Lei Jiang (Tokyo Institute of Technology), Nopphon Keerativoranan (Tokyo Institute of Technology), Tad Matsumoto (Tokyo Institute of Technology), Jun-ichi Jun-ichi Takada (Tokyo Institute of Technology)
P1-15	Theoretical study on multiband compatible near-field noise suppression device loaded on microstrip transmission line	Miki Otani, Kimitoshi Murano (Tokai University)
P1-16	Neural Networks as Catalysts for Enhanced Lossless Compression in Satellite Communications	Thibault Piana (IMT Atlantique), Matthieu Arzel (IMT Atlantique), Abdeldjalil Aïssa-El-Bey (IMT Atlantique), Alain Thomas (Safran Data Systems)
P1-17	An Agent-Based Model for Social Networking Service Users in Exchanging Information	Radifan Fitrah Muhammad, Shoji Kasahara (Nara Institute of Science and Technology)
P1-18	A Concept of SD-RoF-based Speculative Cloud Gaming System	Takumasa Ishioka (Osaka University), Tatsuya Fukui (NTT Corporation), Ryouhei Tsugami (NTT Corporation), Toshihito Fujiwara (NTT Corporation), Satoshi Narikawa (NTT Corporation), Takuya Fujihashi (Osaka University), Shunsuke Saruwatari (Osaka University), Takashi Watanabe (Osaka University)
P1-19	An Effect of Phase Accumulation Number Optimization for Remote Heart Rate Sensing with Multi-chirp FMCW Radar for Seated Human	Tatsunori Saito (Nihon University), Yaokun Hu (Nihon University), Takeshi Toda (Nihon University)
P1-20	A Study on Genetic Trajectory Search Engine For Large-Scale Human Data	Rei Koyama, Kohei Shiimoto (Tokyo City University)
P1-21	Correction RTT using RSSI for Wireless LAN location estimation	Yusuke Shida, Satoru Aikawa, Shinichiro Yamamoto (University of Hyogo)
P1-22	Electric Field Attenuation of Wireless Medical Telemeters by Hospital Structures	Isao Kayano, Yumina Kagawa, Seiichi Mochizuki (Kawasaki University of Medical Welfare)
P1-23	Study on Subarray Beam Allocation for Sub-Terahertz-Band MIMO Spatial Multiplexing in Indoor Office Environments	Naoki Hamada, Toshihiko Nishimura, Takanori Sato, Yasutaka Ogawa, Takeo Ohgane (Hokkaido University)

P1-24	A Design of Quasi-Millimeter Wave Wideband Slot Array Antenna with Double-Sided Feeding Circuit and Leaf-Shaped Bowtie Slot Element	Yoshiki Ono (Graduate School of Information Science and Technology, Hokkaido University), Takashi Hikage (Graduate School of Information Science and Technology, Hokkaido University), Manabu Yamamoto (Graduate School of Information Science and Technology, Hokkaido University), Shuki Wai (NTT Access Network Service Systems Laboratories, NTT Corporation), Naoki Kita (NTT Access Network Service Systems Laboratories, NTT Corporation)
P1-25	Tripling of intermediate frequency in electro-optic imaging using a modified equivalent time sampling method	Kiyotaka Sasagawa (Nara Institute of Science and Technology), Ryoma Okada (Nara Institute of Science and Technology), Yoshihiro Akamatsu (Nara Institute of Science and Technology), Maya Mizuno (National Institute of Information and Communications Technology), Makito Haruta (Nara Institute of Science and Technology), Hironari Takehara (Nara Institute of Science and Technology), Hiroyuki Tashiro (Nara Institute of Science and Technology), Jun Ohta (Nara Institute of Science and Technology)
P1-26	Experimental Evaluation of Adaptive Bitrate Live Streaming over Information-Centric Networking	Yusaku Hayamizu (NICT), Masaki Bandai (Sophia University), Miki Yamamoto (Kansai University)
P1-27	Microwave metamaterial EM wave absorber using circular metallic pattern periodic array structure	Soma Takeda (Graduate School of Engineering University of Hyogo), Shinichiro Yamamoto (Graduate School of Engineering University of Hyogo), Satoru Aikawa (Graduate School of Engineering University of Hyogo), Teruhiro Kasagi (Sanyo-Onoda City University)
P1-28	Study on evaluation of near magnetic field leaking from the opening surface of metal enclosure	Yuji Sakaguchi, Shinichiro Yamamoto, Satoru Aikawa (Graduate School of Engineering University of Hyogo)
P1-29	EM wave absorber for 28 GHz band without metal backing	Ryuki Hirose (Graduate School of Engineering, University of Hyogo), Shinichiro Yamamoto (Graduate School of Engineering, University of Hyogo), Morimichi Itoh (Osaka Research Institute of Industrial Science and Technology), Shinosuke Kagekawa (Osaka Research Institute of Industrial Science and Technology), Hitoshi Togawa (Keeper Corporation, Co.,Ltd.), Hiroshi Igarashi (Keeper Corporation, Co.,Ltd.)
P1-30	User Fairness Power Allocation in OFDMA-based Wireless Powered Communication Network	Keigo Hirashima, Teruyuki Miyajima (Ibaraki University)
P1-31	Transceiver Design in OFDMA-based Distributed Wireless Powered Communication Networks	Takashi Shiya, Teruyuki Miyajima (Ibaraki University)
P1-32	A fingerprint localization scheme using data augmentation	Togo Shinomiya, Satoru Aikawa, Shinichiro Yamamoto (University of Hyogo)
P1-33	A new buffering delay aware energy efficient low latency bursttransmission scheme	Takuma Endo (Fukushima University), Salahuddin Muhammad Salim Zabir (National Institute of Technology, Tsuruoka College), Satoshi Utsumi (Fukushima University)
P1-34	Approach to authentication / authorization for EV charging control	Takashi Murakami, Noriyoshi Shimizu, Katsuhiko Hiramatsu (Panasonic Corporation)

Poster Session 2

Nov. 30 (Thu) 16:30-18:00, Exhibition Hall (1F)		
P2-1	A Multi-Stage Solution for Scene Text Detection and Recognition	Chien-Hao Tseng, Meng-Wei Lin, Jyh-Hong Wu (National Center for High-Performance Computing, National Applied Research Laboratories)
P2-2	Modelling the Shadowing Gain from Obstacle in Wireless Channel Emulator with Grid-based Channel Interpolation Technique	Nopphon Keerativoranan, Jun-ichi Takada (Tokyo Institute of Technology)
P2-3	On Improving TOF Estimation of Radio Wave in Multipath Environments Using PN Correlation Method with Compressed Sensing	Shotaro Sakakibara, Kento Kataoka, Nobuyoshi Kikuma, Kunio Sakakibara, Yoshiki Sugimoto (Nagoya Institute of Technology)
P2-4	Optimization of User Clustering for Non-Orthogonal Multiple Access with Millimeter-wave Stored D2D in Microwave Cellular Systems	Masahiro Mizuno, Osamu Takyu (Shinshu university)
P2-5	Antenna Pattern Effect on Block Beamforming Algorithms in Multi-User MIMO Communications	Taisei Oe, Nobuyoshi Kikuma, Kunio Sakakibara, Yoshiki Sugimoto (Nagoya Institute of Technology)
P2-6	Spectrum Efficiency Improvement by Adaptive Bandwidth and Transmit Power Control in Multi-Band Wireless Systems	Taishiro Moriyasu, Shigeru Tomisato, Kazuhiro Uehara (Okayama University)
P2-7	Construction of real-time visualized location estimation system in 2D indoor environment using ZigBee wireless module	Kyosuke Terada, Shunki Sato, Eisuke Kudoh (Tohoku Institute of Technology)
P2-8	Investigation of Positioning Methods for Implementation of Environment-Aware Wireless Sensor Networks on 429MHz LoRa/FSK	Keita Takeda, Ryuji Miyamoto, Osamu Takyu (Shinshu university)
P2-9	Keyword-Based Searchable Encryption using Threshold Secret Sharing	Ahmad Akmal Aminuddin Mohd Kamal, Masamune Okada, Masaya Fujisawa (Tokyo University of Science)
P2-10	Cost-Efficient and Secure Information Sharing System with Access Control for Wireless Drone Networks	Yuki Kawahara, Masaya Fujisawa, Ahmad Akmal Aminuddin Mohd Kamal (Tokyo University of Science)
P2-11	A Study of Received Antenna Branch Selection Diversity Effect for Remote Hear Rate Measurement Based on mm-Wave SIMO Radar	Kosuke Otsu, Yaokun Hu, Takeshi Toda (Nihon University)
P2-12	Traceable Parcels Delivery System Using Blockchain Network	Yasuhiro Kan, Kazuma Aoi, Ahmad Akmal Aminuddin Mohd Kamal, Masaya Fujisawa (Tokyo University of Science)
P2-13	Evaluation of Antenna Beam Search Algorithm with Stop Condition in Frequency Sharing	Kizuku Kawamura (Shinshu University), Kohei Akimoto (Akita Prefectural University), Osamu Takyu (Shinshu University)
P2-14	Evaluation of factors to reduce visual cognitive load for drivers in VR-CAR	Sawato Taki (Tokyo Metropolitan University), Ryoto Kato (Technische Universität München), Takashi Nishitsuji (Toho University), Takuya Asaka (Tokyo Metropolitan University)
P2-15	A Consideration of Initial Value Estimation of Localization of Near-field Sources for MUSIC Method in Distributed Array	Yuta Tanaka, Nobuyoshi Kikuma, Kunio Sakakibara, Yoshiki Sugimoto (Nagoya Institute of Technology)
P2-16	Power-saving performance evaluation of the adaptive Deep Sleep enabled PON based on applications and PON management system linkage operation	Takahiro Ishiyama, Takashi Kurimoto, Satoru Okamoto, Yamanaka Naoki (Keio University)
P2-17	DOA Estimation by VESPA Algorithm Using SLS Method	Kenta Noda, Nobuyoshi Kikuma, Kunio Sakakibara, Yoshiki Sugimoto (Nagoya Institute of Technology)
P2-18	DOA Estimation of Direct Wave in Multipath Environments Using FFT-FOCUSS with Adaptive Change of Angle Bin Spacing	Kazuya Ota, Nobuyoshi Kikuma, Kunio Sakakibara, Yoshiki Sugimoto (Nagoya Institute of Technology)
P2-19	A Fundamental Discussion on Efficient Reliable Multicast Protocol in Hierarchical Non-Terrestrial Networks	Enping Zhou (Osaka University), Makoto Kobayashi (Hiroshima City University), Takuya Fujihashi (Osaka University), Md. ABDUL Alim (Khulna University), Shunsuke Saruwatari (Osaka University), Masahiro Nishi (Hiroshima City University), Takashi Watanabe (Osaka University)
P2-20	Considerations on IRS Control Based on Beamforming for Sub-Terahertz-Band Communications	Shuto Tadokoro (Hokkaido University), Toshihiko Nishimura (Hokkaido University), Takanori Sato (Hokkaido University), Yasutaka Ogawa (Hokkaido University), Takeo Ohgane (Hokkaido University), Satoshi Suyama (NTT DOCOMO, INC.)
P2-21	Novel Exposure Setup Using Spatial Synthetic Antennas for Investigation of Thermal Physiology and Cellular Function Changes Induced by Highly Localized Millimeter-Wave Exposure	Kaito Sugimura (Hokkaido University), Takashi Hikage (Hokkaido University), Hiroshi Masuda (Kurume University), Tatsuya Ishitake (Kurume University), Kun Li (The University of Electro-communications), Akiko Nagai (Aichi Gakuin University)
P2-22	DOA Estimation Performance of Desired Waves Using MUSIC Algorithm with Multiple Cyclic Correlations	Yasuhiro Teshima, Nobuyoshi Kikuma, Kunio Sakakibara, Yoshiki Sugimoto (Nagoya Institute of Technology)
P2-23	Numerical Evaluation of Averaging Mass for Local Specific Absorption Rate Enhancement in Human Tissue with Implanted Metal Plates Exposed to Radio Frequency Waves in the Cellular Frequency Band	Shuhei Waki (Hokkaido University), Funa Tsumura (Hokkaido University), Takashi Hikage (Hokkaido University), Tomoaki Nagaoka (NICT)
P2-24	Feed structure coupling from the top of the TM11 and TM21 mode annular ring patch antennas	Ami Sugawara, Keizo Cho (Chiba Institute of Technology)
P2-25	Numerical Estimations of Specific Absorption Rates for Vertical Exposure Using Anatomical Phantom Models Across Different Ages and Genders	Minoru Kagohashi, Takashi Hikage, Manabu Yamamoto (Hokkaido University)
P2-26	Estimation of Human Body Blockage Considering Elevation Angle of Exposure Plane-waves in Wireless LAN Frequency Band for Epidemiological Research on RF Exposure and Children's Health	Sakura Tsuruga, Kaito Sugimura, Takashi Hikage, Manabu Omiya, Keiko Yamazaki, Atuko Ikeda-Araki, Chihiro Miyashita, Naomi Tamura, Reiko Kishi (Hokkaido University)

P2-27	Speech Recognition Support System with AR Glasses	Ryo Midorikawa, Taito Baba, Takumi Senaha, Toma Uruizaka, Takuya Asaka (Tokyo Metropolitan University)
P2-28	Non-Linear Distortion Compensation for LED Visible Light Wireless Communications with Compressed DCO-OFDM Signals	Kaito Nakayama, Shigeru Tomisato, Satoshi Denno, Kazuhiro Uehara (Okayama University)
P2-29	Motion artifact removal in R-R interval estimation of ECG signal for wearable biomedical sensors using adaptive filter and high pass filter	Yohei Arakawa, Tadao Nakagawa (Tottori University)
P2-30	Transmission Control for Highly Efficiency Data Gathering in Packet-Level Index Modulation	Ryuji Miyamoto (Shinshu University), Osamu Takyu (Shinshu University), Hiroshi Fujiwara (Shinshu University), Koichi Adachi (The University of Electro-Communications), Mai Ohta (Fukuoka University), Takeo Fujii (The University of Electro-Communications)
P2-31	Proposal of Transmission Frequency Switching Method Based on Correlation with Sensing in LPWA	Yudai Koike, Osamu Takyu (Shinshu University)
P2-32	Compensation of Communication Latency using Video Prediction in Remote Monitoring Systems	Toshio Sato (Waseda University), Yutaka Katsuyama (Waseda University), Zheng Wen (Waseda University), Xin Qi (Waseda University), Kazuhiko Tamesue (Waseda University), Wataru Kameyama (Waseda University), Yuichi Nakamura (Kyoto University), Jiro Katto (Waseda University), Takuro Sato (Waseda University)
P2-33	A Measurement for the SAR Probe Gain Response against TDD Modulated Signal for Probe Calibration at the frequency of 3.7 GHz	Yuto Shimizu, Tomoaki Nagaoka (National Institute of Information and Communications Technology)
P2-34	Preliminary Study of the Importance of Small Eigenvalues through Matrix Approximation without Rank Restriction	Eriko Segawa, Yusuke Sakumoto (Kwansei Gakuin University)

Poster Session 3

Dec. 1 (Fri) 15:50-17:20, Exhibition Hall (1F)

P3-1	Receiver Efficient Time and Route Planning for a Full/Half-Coupled Shared-link Switchable Point-to-Multipoint TDM-based Access System	Ryunosuke Minamoto, Yuta Kimura, Mizuki Inagaki, Takahiro Kodama (Kagawa University)
P3-2	UDP Throughput Performance of Wi-Fi HaLow at Kagawa University Campus	Atsushi Yamasaki (Kagawa University), Junji Terai (STNet Corporation), Nobuhiko Miki (Kagawa University)
P3-3	Polarization demultiplexing and fiber-nonlinearity compensation based on complex-valued reservoir computing	Kai Ikuta, Yuta Ito, Moriya Nakamura (Meiji University)
P3-4	Impact of Biased User Distribution on Offset Values Using Neural Network	Mitsuto Sato, Yuki Kusaka, Nobuhiko Miki (Kagawa University)
P3-5	A Look Over on The Usages of Relatively Rare Types of DNS Resource Records	Hikaru Ichise (Tokyo Institute of Technology), Yong Jin (Tokyo Institute of Technology), Satoru Sunahara (Chitose Institute of Science and Technology), Takao Kondo (Hokkaido University), Katsuyoshi Iida (Hokkaido University)
P3-6	Microstrip antenna combining TM21 annular ring patch and TM11 circular patch for satellite communications	Masaya Tateno, Keizo Cho (Chiba Institute of Technology)
P3-7	Improved Method of Interference Detection to Satellite Earth Station by Radio Sensor in Spectrum Sharing	Takatoshi Obata, Osamu Takyu (Shinshu University)
P3-8	Performance Improvement of Block Maximum SNR Method Using Adaptive Transmit Diversity for Multi-User MIMO Communications	Kaito Sakazaki, Nobuyoshi Kikuma, Kunio Sakakibara, Yoshiki Sugimoto (Nagoya Institute of Technology University)
P3-9	Frequency Bandwidth Limitation Method by Autocorrelation for Ultrasonic Data Collection System	Rio Shigyo, Daiki Nobayashi, Kazuya Tsukamoto, Mitsunori Mizumachi, Takeshi Ikenaga (Kyushu Institute of Technology)
P3-10	QoS Comparison between ATS, CBS and TAS in IEEE 802.1TSN over In-Vehicle Ethernet	Akari Yoshimura, Yoshihiro Ito (Nagoya Institute of Technology)
P3-11	Evaluation of Device Identification Accuracy Using PA Nonlinearity and IQ Imbalance in OFDM Signals for Receiver Changes by Simulation	Shohei Matsuoka (Dept. of Electrical and Electronic Information Engineering, Toyohashi University of Technology), Kota Mizumachi (Dept. of Electrical and Electronic Information Engineering, Toyohashi University of Technology), Kazuki Komatsu (Dept. of Electrical and Electronic Information Engineering, Toyohashi University of Technology), Yuichi Miyaji (Dept. of Electrical and Electronics Engineering, Aichi Institute of Technology), Hideyuki Uehara (Dept. of Electrical and Electronic Information Engineering, Toyohashi University of Technology)
P3-12	Development of the porcine cornea-equivalent phantom in THz frequency region for visualizing temperature changes with high spatial resolution	Shota Yamazaki, Maya Mizuno, Tomoaki Nagaoka (National Institute of Information and Communications Technology)
P3-13	On Investigating the Characteristics of Users' Reactions to Instagram Posts and Its Modeling	Yuhei Doka, Yasuhiro Sato (Osaka Electro-Communication University)
P3-14	Complementary Data Diffusion Method for Quick Retention of Large Spatio-Temporal Data	Renju Akashi (Kyushu Institute of Technology), Daiki Nobayashi (Kyushu Institute of Technology), Kazuya Tsukamoto (Kyushu Institute of Technology), Takeshi Ikenaga (Kyushu Institute of Technology), Myung Jong Lee (City College of New York)
P3-15	Angle Adjustment of Transmission Narrow Beam for Air-axis Misalignment in Air-Underwater Optical Wireless Communication	Hyuga Nagami, Fumiya Kobori, Keita Tanaka, Tomoya Ishikawa, Ayumu Kariya, Takahiro Kodama (Kagawa University)
P3-16	First Demonstration of End-to-End Wireless Signal Transmission between Over- and Under-water region using Visible Light Sources	Ryusei Oikawa, Nagataka Higaki, Naoto Yoshimoto (Chitose Institute of Science and Technology)
P3-17	Dynamic Angle of Arrival Estimation with Improved Accuracy Using the Sample Selection Method in Nakagami-Rice Propagation Environments	Yuto Sekino, Kazuhiro Honda (University of Toyama)
P3-18	OTA Experiments on Controlled Number of Paths in Cluster Propagation Environment	Ryota Otani, Kazuhiro Honda (University of Toyama)
P3-19	Exposure evaluations of mm-wave band handset on the human head	Keisuke Kimura (Chiba University), Kazuyuki Saito (Chiba University), Masaharu Takahashi (Chiba University), Tomoaki Nagaoka (National Institute of Information and Communications Technology)
P3-20	Power Management Architecture for Mobile-System Base Stations Utilizing Pedestrian Flow Analytics and Non-Terrestrial Networks	Takaya Miyazawa, Kentaro Ishizu, Hitoshi Asaeda, Hiroyuki Tsuji, Hiroaki Harai (National Institute of Information and Communications Technology)
P3-21	The Content ID encryption method in Information-Centric Networking based Wireless Sensor Networks	Takafumi Taya, Osamu Mizuno (Kogakuin University)
P3-22	Phase-shift Ciphered PSK Signal with Cipher Block Chaining Mode	Reika Suketomo, Yuika Mori, Hodaka Amano, Keiji Shimada, Takahiro Kodama (Kagawa University)
P3-23	Research on Machine Learning Model for Detecting Ultrasonic Signals	Kosei Ozeki, Naofumi Aoki, Yoshinori Dobashi (Hokkaido University)
P3-24	Experimental verification of miniaturization and bandwidth of capacitive window insertion waveguide E-plane stubs	Kyohei Murayama, Yusuke Kusama (Toyo University)
P3-25	Validation of Kirchhoff-Huygens equation by using FDTD Method in the Radio Frequency	Kazuma Kabasawa, Yusuke Kusama (Toyo University)
P3-26	A synchronized edge router switching for network switching	Haruto Hirose, Rei Ishioka, Junichi Murayama (Tokai University)
P3-27	A router metabolizing scheme for suppressing router-internal malware spreading	Rei Ishioka, Haruto Hirose, Junichi Murayama (Tokai University)
P3-28	Impact of Inhalation Resistance on Facial Surface Temperature and Stress Levels During Mask Wearing	Madoka Suzuki (Tokyo University of Science), Tomoaki Ohtsuki (Keio University)
P3-29	A Performance Study on CPU Clock Rate Control Based on Application Method Invocation in Android	Kota Kumakura (Kogakuin University), Takeshi Kamiyama (Nagasaki University), Masato Oguchi (Ochanomizu University), Saneyasu Yamaguchi (Kogakuin University)
P3-30	Performance Improvement Due to Space-Diversity Techniques for Underwater Wireless Optical Communication Systems Corrupted by Floating Matter	Ryoko Yoshino (Chuo University), Keiko Fujii (The Senior High School affiliated with Japan Women's University), Takayuki Yoshino (Tokyo Denki University)
P3-31	Implementation and Evaluation of Hybrid Wired/Wireless SDN Switch	Jiangang Chen, Kien Nguyen, Hiroo Sekiya (Chiba University)
P3-32	Communication-efficient federated learning of monitors in fiber-optic networks by model reduction using non-optical auxiliary data	Takahito Tanimura, Masayuki Takase (Hitachi Ltd.)
P3-33	A compact waveguide bandpass filter design using folded waveguide resonant cavities	Hao-Hui Chen, Yao-Wen Hsu, You-Xiu Zheng (Department of Electronic Engineering (First Campus), National Kaohsiung University of Science and Technology)