Midland Student Express 2022 Spring (Live Online by Zoom) 4/23/2022

Ver.1: Apr. 20, 2022

	12:25 - 12:30	Opening Address	Prof. Yoshihiko Kuwahara IEEE MTT-S Nagoya Chapter Chair
	Session1	**Chair: Takumi Kanamori (Shizuoka University)**	
1	12:30 - 12:45	A directive antenna consisting of a wire and a sprit ring	Toshiya Hiramoto Kanazawa Institute of Technology
2	12:45 - 13:00	Beamforming of a Leaf-Shaped Bowtie Antenna for Microwave Imaging by Parasitic Elements	Masaki Adachi Shizuoka University
3	13:00 - 13:15	Measuremant and Characteristic Mode Analysis of H-shaped Slot Patch Antenna for Suppressing 2nd and 3rd Harmonics	Koichi Nozawa Nagoya Insitute of Technology
4	13:15 - 13:30	Prototype Design of Compact Quasi-isotropic Planar Antenna for Energy Harvesting	Hibiki Ito Nagoya Institute of Technology
5	13:30 - 13:45	A Study of Antenna Impedance and Radiation Characteristics for High-Efficiency Wireless Power Transfer	Takumi Kanamori Shizuoka University
6	13:45 - 14:00	Prototype Development of RF-DC Conversion Circuit with Complex MPPT using Transmission Line	Madoaka Suga Nagoya Institute of Thecnology
7	14:00 - 14:15	Design of 150MHz band antenna for life jacket	Taro Kawai Toyama Prefectural University
	14:15 - 14:20	Short Break	
	Session2	**Chair: Masaki Adachi (Shizuoka University)**	
8	14:20 - 14:35	Design of SIW Rotman Lens Beam Forming Network in Terahertz Band	Shumpei Kishi Nagoya Institute of Technology
9	14:35 - 15:50	Multi-Beam Performance of Constant-K Spherical Lens Antenna in Terahertz Band	Takeyuki Tsuchida Nagoya Institute of Technology
10	14:50 - 15:05	A study on gain fluctuation reduction of beam switching scanning lens antenna	Takuya Sugiyama Nagoya Institute of Technology
11	15:05 - 15:20	Design Equation for Class-E Inverters Considering Component Mounted Lines	Akihiko ISHIWATA Toyohashi University of Technology
12	15:20 - 15:35	Synthetic Complex Permittivity Measurement of Multi-layerd Biological Tissues	SEGAWA Takamasa Toyohashi University of Technology
13	15:35 - 15:50	Imaging Experiment Using millimeter Wave for Concealed Item Detection	Arie Setiawan Mie University
14	15:50 - 16:05	Electro-Optic Sensor for Simultaneously Receiving Two Polarization Components for 5G Wireless	Shunsuke nakamori Mie University
	16:05 - 16:10	Short Break	
	Session3	**Chair: Yuki Takayanagi (Toyama University)**	
15	16:10 - 16:25	FDTD Analysis of Polarization Characteristics of Anomalous Mountain Diffraction Associated with Earthquakes	Ryunosuke Takada University of Toyama
16	16:25 - 16:40	Three-dimensional electromagnetic field analysis of abnormal mountain diffraction phenomenon of electromagnetic waves caused by earthquakes	Tomoki Miyagishi University of Toyama
17	16:40 - 16:55	Comparison of Neural Network for the Deep Learning of Preseismic Anomalous Electromagnetic Wave Propagation	Atsuya Ishikuro University of Toyama
18	16:55 - 17:10	Deep Learning of Pre-seismic Electromagnetic Anomaly by Residual Network and Spectrogram	Shuya Takagi University of Toyama
19	17:10 - 17:25	Verification of probabilistic statistical relationship between electromagnetic wave anomaly propagation and earthquake occurrence	Yuki Takayanagi Toyama University
	17:25 - 17:30	Closing Address	Prof. Keisuke Noguchi IEEE AP-S Nagoya Chapter Chair
	17:30 - 18:30	特別講演 "High Efficiency Power Amplifier Design Methodology for Energy Applications"	Prof. Shinji Hara Nagoya University
	Around 18:30	Award Ceremony	