

Mar. 28, 2024 (Thursday): Day 1 of SCW 2024

JST	IST	GMT	MYT	
12:25:00 PM	8:55:00 AM	10:25:00 AM	11:25:00 AM	Chair: Prof. Syed Abdul Rahman Al-Haddad (UPM, Malaysia)
12:30:00 PM	9:00:00 AM	10:30:00 AM	11:30:00 AM	Keynote Lecture by Mr. Kannan Lakshminarayanan (CEET, IIT Madras, India): "Challenges and Opportunities in Motors"
12:50:00 PM	9:20:00 AM	10:50:00 AM	11:50:00 AM	Keynote Lecture by Prof. IR. Dr. Khairul Salleh Bin Mohamed Sahari (Universiti Tenaga Nasional, Malaysia): "Mapping by practical inspection robot in a real environment"
1:10:00 PM	9:40:00 AM	11:10:00 AM	12:10:00 PM	(Break)
				Session: Advanced communication technologies, Chair:
1:25:00 PM	9:55:00 AM	11:25:00 AM	12:25:00 PM	"An Auxiliary Antenna and Repeater Node for Reading Multiple RFID Sensor Tags in Shielded Areas", *Danang Kumara Hadi, Zequn Song, Moeka Endoh, Shusuke Kobayashi, Ran Sun (Ibaraki University, Japan), Budi Rahmadya (Andalas University, Indonesia), Shigeki Takeda (Ibaraki University, Japan)
1:40:00 PM	10:10:00 AM	11:40:00 AM	12:40:00 PM	"An RFID Reader With Vibration Sensing Capabilities On GPIO Ports For Significantly Reducing Its Power Consumption", *Zequn Song, Danang Kumara Hadi (Ibaraki University, Japan), Budi Rahmadya (Andalas University, Indonesia), Ran Sun, Shigeki Takeda (Ibaraki University, Japan)
1:55:00 PM	10:25:00 AM	11:55:00 AM	12:55:00 PM	"Accurate target angle and size identification utilizing a resampling technique in MIMO-based automotive millimeter wave radars having degraded range resolutions", Yuri Owada, Ran Sun, *Shigeki Takeda (Ibaraki University, Japan)
2:10:00 PM	10:40:00 AM	12:10:00 PM	1:10:00 PM	"Substrate Integrated Waveguide Design Method Using a Simplified Analysis Model", *Masahiro Hashiba, Takuichi Hirano (Tokyo City University, Japan)
2:25:00 PM	10:55:00 AM	12:25:00 PM	1:25:00 PM	(Break)
				Session: Secure Transportation Systems, Chair:
2:40:00 PM	11:10:00 AM	12:40:00 PM	1:40:00 PM	"Indoor Localization Method Based on the Analyses of Surrounding Wi-Fi Access Points Using ChatGPT", *Budi Rahmadya (Andalas University, Indonesia), Shigeki Takeda, Ran Sun, Zequn Song, Danang Kumara Hadi (Ibaraki University, Japan)
2:55:00 PM	11:25:00 AM	12:55:00 PM	1:55:00 PM	"Unraveling the Secrets of Inner Speech from Electroencephalograph with Spatial Features and Convolutional Neural Networks", Hussna Elnoor Abdalla (University Putra Malaysia\ Sudan International University, Sudan), SYED ABDUL RAHMAN AL-HADDAD (University Putra Malaysia, Malaysia), Hamidon Basri, Ishak Aris, Abdul Hanif Khan Yusof Khan (University Putra Malaysia, Malaysia)
3:10:00 PM	11:40:00 AM	1:10:00 PM	2:10:00 PM	"Fast Raytracing EM Calculation to Predict Radio Environment for Autonomous Driving System", Ken Takei (Hitachi Ltd., Japan)
3:25:00 PM	11:55:00 AM	1:25:00 PM	2:25:00 PM	"Asynchronous Software Defined Radios Making Rotating Polarization Wave", Ken Takei (Hitachi Ltd., Japan)
3:40:00 PM	12:10:00 PM	1:40:00 PM	2:40:00 PM	(Break)
				Session Chair: Prof. Norhisam Mison (UPM, Malaysia)
3:55:00 PM	12:25:00 PM	1:55:00 PM	2:55:00 PM	Keynote Lecture by Prof. Budi Rahmadya (Andalas University, Indonesia): "Wind velocity measurement using balloon wireless sensor network at Padang beach in Indonesia"
4:15:00 PM	12:45:00 PM	2:15:00 PM	3:15:00 PM	Keynote Lecture by Mr. Ohnishi (Hitachi Ltd, Japan): "Verification of Crossroad for Wireless System to Achieve Mobility Safe Control"
4:35:00 PM	1:05:00 PM	2:35:00 PM	3:35:00 PM	"Development of an Embedded Permanent Magnet Outer Rotor Switched Reluctance Motor for Electrically Extending and Retracting Harvesting Pole in Oil Palm Industry", Norhisam Mison, Hairul Faizi Hairulnizam and Nur Amira Ibrahim (Universiti Putra Malaysia, Malaysia)
4:50:00 PM	1:20:00 PM	2:50:00 PM	3:50:00 PM	"Rotating Polarization Wave Radio Using Software Defined Devices Controlled by High-level Programming Language", Ken Takei (Hitachi Ltd, Japan)
5:05:00 PM	1:35:00 PM	3:05:00 PM	4:05:00 PM	(Break)
				Session Chair: Prof. Syed Abdul Rahman Al-Haddad (UPM, Malaysia)
5:20:00 PM	1:50:00 PM	3:20:00 PM	4:20:00 PM	"Detection and Mitigation of Critical Cybersecurity Threat to Power Transformer Monitoring", Subhojeet Mukherjee and Ritesh Kalle (Hitachi India, India)
5:35:00 PM	2:05:00 PM	3:35:00 PM	4:35:00 PM	"Modified ADASYN with Reciprocal Nearest Neighbors for Fine Grained Fraud Classification", Sharath Kumar, Manikandan Ravikiran and Nestor Mariyasagayam (R&D Center, Hitachi India Pvt Ltd, India)
5:50:00 PM	2:20:00 PM	3:50:00 PM	4:50:00 PM	"Evaluation and Tuning of Automatic Speaker Identification and Verification System", Shreyas Kulkarni, Mayurakshi Mukherji, Senthil Raja, Vivek Kumar, Ryota Kamoshida and Kingshuk Banerjee (Hitachi India Ltd, India)
6:05:00 PM	2:35:00 PM	4:05:00 PM	5:05:00 PM	"Enhancing Smart City Mobility: Evaluating Imputation Models for Sensor Data in Intelligent Transportation Systems", Thiruvengadam Samon, Ankit Sharma, Akhsh Vellandurai and Vinoth Kumar (Hitachi India R&D, India)
6:20:00 PM	2:50:00 PM	4:20:00 PM	5:20:00 PM	"Enhancing Indoor Thermal Comfort through CFD Simulation and Unity-Based Visualization Framework", Vinay Chandraker, Pankaj Panwar, Bineet Kumar, Pranay Verma and Saima Mohan (Hitachi India Ltd, India)
6:35:00 PM	3:05:00 PM	4:35:00 PM	5:35:00 PM	(Break)
				Session Chair: Prof. Fakhru Zaman Rokhani (UPM, Malaysia)
6:50:00 PM	3:20:00 PM	4:50:00 PM	5:50:00 PM	"Self-organizing Local Area Wireless Access Networks following a mesh network topology to support massive Machine Type Communication and Ultra Reliable and Low Latency Communication in ISM band", Suresh Kumar Karthikeyan and Devendra Jalihal (IIT Madras, India)
6:58:00 PM	3:28:00 PM	4:58:00 PM	5:58:00 PM	"Study on Electrical Properties of Carbon Fiber Reinforced Plastics in VHF Bands", Yoshinari Demoto, Daiya Miyamoto and Futoshi Kuroki (National Institute of Technology, Kure College, Japan)
7:06:00 PM	3:36:00 PM	5:06:00 PM	6:06:00 PM	"Design of Power Combiner Using T-Junction Waveguide at W-Band", Takato Shinhama, Takuma Kinoshita and Futoshi Kuroki (National Institute of Technology, Kure College, Japan)
7:14:00 PM	3:44:00 PM	5:14:00 PM	6:14:00 PM	"Design of Bandpass Filter Using DTM Line Supported by Dielectric Sheet at 80GHz", Mototsugu Ohtani and Furoshi Kuroki (National Institute of Technology, Kure College, Japan)
7:22:00 PM	3:52:00 PM	5:22:00 PM	6:22:00 PM	"Consideration on Hollow-metal-waveguide Type of Power Combining Using Y-shaped Magic-T", Shudai Izumi, Takuma Kinoshita, Masaru Sato and Futoshi Kuroki (National Institute of Technology, Kure College; Fujitsu Limited, Japan)
7:30:00 PM	4:00:00 PM	5:30:00 PM	6:30:00 PM	"Reverberation Suppression in Distant Speech: A Combined Coherent-to-Diffuse Power Ratio and Least Mean Square Algorithm Approach", Sureshkumar Natarajan, Syed Abdul Rahman Al-Haddad, Mohd Khair Hassan, Raja Kamil, Syaril Azrad, Faisul Arif Ahmad and June Francis Macleans (Universiti Putra Malaysia, Malaysia)
7:38:00 PM	4:08:00 PM	5:38:00 PM	6:38:00 PM	"Comparison of Transmission Line Loss for Millimeter Wave Applications", Masatora Ueno and Takashi Shimizu (Utsunomiya University, Japan)