

ICSANE2019 Program

Date: Oct. 31- Nov. 1, 2019

Conference Venue:

Ara Convention Hall, Ara campus, Jeju National University, Jeju, Korea

October 31 Thursday

TIME	ACTIVITY
8:30-9:00	Registration
9:00-9:15	Opening Ceremony (Message from SANE & President of KAGIS)
9:20-10:40	Technical Session 1 <u>Topic: Various technologies,</u> <u>Chair: Manabu Akita(UEC, Japan)</u>
10:40-11:00	Break
11:00-12:40	Technical Session 2 <u>Topic: Sensors,</u> <u>Chair: Takashi Amishima(Mitsubishi Electric Corp., Japan)</u>
12:40-14:00	Lunch Break
14:00-15:00	Technical Session 3 <u>Topic: SAR and its related technologies (1),</u> <u>Chair: Tea-Ho Kim(KIOST, Korea)</u>
15:00-15:20	Break
15:20-16:20	Technical Session 4 <u>Topic: SAR and its related technologies (2),</u> <u>Chair: Takero Yoshida(Tokyo Univ., Japan)</u>
18:30-	Banquet at Maison Glad Jeju (Announcement: Finalists of YSA Award)

November 1 Friday

TIME	ACTIVITY
9:00-10:00	Technical Session 5 <u>Topic: Polarimetry and Classification (1),</u> <u>Chair: Toshifumi Moriyama(Nagasaki Univ., Japan)</u>
10:00-10:20	Break
10:20-11:20	Technical Session 6 <u>Topic: Polarimetry and Classification (2),</u> <u>Chair: Junjun Yin(USTB, China)</u>
11:20-12:40	Lunch Break
12:40-13:40	Technical Session 7 <u>Topic: Theory and Experiment for Electromagnetic wave (1),</u> <u>Chair: Hiroyoshi Yamada(Niigata Univ., Japan)</u>
13:40-14:00	Break
14:00-15:00	Technical Session 8 <u>Topic: Theory and Experiment for Electromagnetic wave (2),</u> <u>Chair: Zhen Xu(RADI, China)</u>
15:00-	Closing (Young Scientist Award Ceremony) (Message from SANE & President of KAGIS)

Technical Session 1 Topic: Various technologies		
Time	Title	Auhtors
9:20-9:40	A Linearization Method of Non-linear Communication Paths based on A Complex Model	Osamu Ichiyoshi (HNB21C)
9:40-10:00	nterference source tracking using triple geostationary satellites and two ground stations for the space radio monitoring	Takeshi Amishima, Ryuhei Takahashi (Mitsubishi Electric Corp.)
10:00-10:20	Investigation of a Spaceport in Japan using CARATS Open Data	Makoto Tanaka (Tokai Univ.)
10:20-10:40	Introduction of KOSMS for Real-time Ocean Surveillance and Monitoring	Chan-Su Yang, Seungryong Kim (KIOST)

Technical Session 2 Topic: Sensors		
Time	Title	Auhtors
11:00-11:20	Measurement of Angular Velocity Vector of Rotating Sports Ball using Doppler Radar	Isao Matsushima, Satoshi Kouya, Mitsuya Motohashi (Denki Univ.)
11:20-11:40	Experimental Study on Human Position Estimation by Passive Radar Using Wireless LAN	Tatsuya Ogawa, Masanori Gocho, Hiroyoshi Yamada (Niigata Univ.)
11:40-12:00	Coastal Activity Risk Assessment using Aviation Images and Hyperspectral Images	Ho-Kun Jeon, Chan-Su Yang (KIOST)
12:00-12:20	Estimation on Optimal Escape Route of Human at Tidal Flat Based on Sedimentary from Aerial Image	Dae-Woon Shin (OST), Chan-Su Yang, Tae-Ho Kim (KIOST)
12:20-12:40	Estimation of Ship Velocity from Multispectral Satellite Image	Tae-Ho Kim, JeongJu Bae, Chan-Su Yang (KIOST)

Technical Session 3 Topic: SAR and its related technologies(1)		
Time	Title	Auhtors
14:00-14:20	Small displacement detection by 24GHz FM-CW SAR using Khatri-Rao product virtual array	Toshifumi Moriyama, Kohei Yamada, Kensuke Sasaki (Nagasaki Univ.)
14:20-14:40	Operational System for Ship Detection and Identification Using SAR and AIS for Ships of Illegal Oil Discharge	Yoshinori Mizukoshi (IJS), Tsuyoshi Watanabe, Kazuo Ouchi (IHI)
14:40-15:00	Estimating moving angle of a ship in PiSAR-2 images by MA-ATI SAR	Takero Yoshida (Tokyo Univ.), Kazuo Ouchi, Chan-Su Yang (KIOST)

Technical Session 4 Topic: SAR and its related technologies(2)		
Time	Title	Auhtors
15:20-15:40	Imaging Performance Improvement of Millimeter Wave SAR for Concealed Weapon Detection by Multi-static Observations	Koki Homma, Hiroyoshi Yamada, Ryoichi Sato (Niigata Univ.)
15:40-16:00	Performance Evaluation of Ship Detection Using Sentinel-1 IW Data	Seungryong Kim, Chan-Su Yang (KIOST)
16:00-16:20	Practical Approach for Noise Reduction in Synthetic Aperture Radar (SAR) Images	Ju-han Park, Chan-Su Yang (KIOST)

Technical Session 5 Topic: Polarimetry and Classification(1)		
Time	Title	Auhtors
9:00-9:20	Scattering Vector Parameterization for Rank-1 Decomposition of Polarimetric SAR Imagery	Junjun Yin (USTB), Jian Yang (Tsinghua Univ.)
9:20-9:40	Experimental study on grasping seasonal change in paddy rice growth using quad-polarimetric SAR data	Takuya Hashimoto, Ryoichi Sato, Yoshio Yamaguchi, Hiroyoshi Yamada (Niigata Univ.)
9:40-10:00	Study on Land Use Classification of PolSAR Data by Using Convolutional Neural Network	Nanako Saito, Masanori Gocho, Hiroyoshi Yamada, Ryoichi Sato, Yoshio Yamaguchi (Niigata Univ.)

Technical Session 6 Topic: Polarimetry and Classification(2)		
Time	Title	Auhtors
10:20-10:40	Aircraft Image Classification using Perceptual Hashing	Riku Noguchi, Makoto Tanaka (Tokai Univ.)
10:40-11:00	Sea Fog Classification from GOCI Images using CNN Transfer Learning Models	Ho-Kun Jeon, Jonathan Edwin, Seungryong Kim, Chan-Su Yang (KIOST)
11:00-11:20	CNN-Based Radar-Video Fusion for Object Classification	Chih-Hsuan Huang, Dan-Dan Yao, Kun-Shan Chen, Chiung-Shen Ku (Xuchang Univ.), Zhao-Liang Li (CNRS), Gen-yuan Du (Xuchang Univ.)

Technical Session 7 Topic: Theory and Experiment for Electromagnetic wave(1)		
Time	Title	Auhtors
12:40-13:00	Effects of the Lunar Nodal Precession on the Imaging Performance of the Moon-based SAR	Zhen Xu, Kun-shan Chen, Guang Liu (RADI,CAS)
13:00-13:20	Demonstration results of Aircraft access to SWIM by experimental aircraft	Kazuyuki Morioka, Xiaodong Lu, Junichi Naganawa, Shusaku Egami, Norihiko Miyazaki, Naruto Yonemoto, Yasuto Sumiya, Akiko Kohmura (ENRI)
13:20-13:40	Electromagnetic Field Strength Evaluations at 4 GHz Wireless Avionics Intra-Communication Band Using Experimental Aircraft -- Measurements Assuming WAIC Transmitters Installed Inside and Outside of Beechcraft B300 Aircraft --	Shunichi Futatsumori, Kazuyuki Morioka, Norihiko Miyazaki (ENRI), Tetsuya Sekiguchi, Takashi Hikage, Toshio Nojima (Hokkaido Univ.)

Technical Session 8 Topic: Theory and Experiment for Electromagnetic wave(2)		
Time	Title	Auhtors
14:00-14:20	Depolarization of Scattering From a Spatially Anisotropic Rough Surface With Inhomogeneous Dielectric Profile	Ying Yang (GLUT), Guofei Shang, Kun-Shan Chen, Zhao-Liang Li (Hebei GEO Univ.)
14:20-14:40	Retrieval of Soil Dielectric Profile By CNN from Fully Bistatic Radar Scattering	Ying Yang, Kun-Shan Chen, Guo-Qing Zhou, Tao Yue (Guilin Univ. of Technology)
14:40-15:00	Measurement of Millimeter-wave Propagation and Scattering from Vegetation Canopy	Chiung-Shen Ku1, Dan-Dan Yao, Kun-Shan Chen, Zhao-Liang Li, Gen-Yuan Du (Xuchang Univ.)

How to get to Ara Campus(Jeju National University) and Banquet place(MAISON GLAD JEJU)

Ara Campus (Jeju National University)

- * From the Jeju Airport to Ara Campus (Jeju National University)
 - Bus → No.500(Towards Jeju National University) Travel time: about 35 min.
 - Taxi → Travel time: about 20 min.
- * Ara Convention Hall: No. 702 in the map



MAISON GLAD JEJU

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<https://goo.gl/maps/Fw17mytnMuj4kxFE6>

Bus: Ara Convention Hall(제주대학교 국제교류회관)

→ **MAISON GLAD JEJU**(메종 글래드 제주)

- * Bus will be operated to get Banquet place (Maison Glad Jeju). The exact time will be announced later.