

## ★宇宙・航行エレクトロニクス研究会 (SANE)

専門委員長 灘井章嗣 副委員長 山田寛喜・田中 真

幹事 秋田 学・網嶋 武 幹事補佐 夏秋 嶺・山梨正人・ニッ森俊一

日時 10月31日(木) 8:30~16:20

11月1日(金) 9:00~14:40

会場 済州大学校 (<http://www.jejunu.ac.kr/eng/about/map/directions>)

議題 ICSANE2019

31日午前 Various technologies

1. A Linearization Method of Non-linear Communication Paths based on A Complex Model  
Osamu Ichiyoshi (HNB21C)
2. Interference source tracking using triple geostationary satellites and two ground stations for the space radio monitoring  
○ Takeshi Amishima・Ryuhei Takahashi (Mitsubishi Electric)
3. CARATS Open Data を用いた日本の宇宙港の検討 田中 真 (東海大)
4. [Short Paper] Introduction of KOSMS for Real-time Ocean Surveillance and Monitoring  
○ Chan-Su Yang・Seungryong Kim (KIOST)

Sensors

5. Measurement of Angular Velocity Vector of Rotational Sports Ball Using Doppler Radar  
○ Isao Matsushima・Satoshi Kouya・Mitsuya Motohashi (Tokyo Denki Univ.)
6. Experimental Study on Human Position Estimation by Passive Radar Using Wireless LAN  
○ Tatsuya Ogawa・Masanori Gocho・Hiroyoshi Yamada (Niigata Univ.)
7. Coastal Activity Risk Assessment using Aviation Images and Hyperspectral Images  
○ Ho-Kun Jeon・Chan-Su Yang (KIOST)
8. Estimation on Optimal Escape Route of Human at Tidal Flat Based on Sedimentary from Aerial Image  
○ Dae-Woon Shin (OST)・Tae-Ho Kim・Chan-Su Yang (KIOST)
9. Estimation of Ship Velocity from Multispectral Satellite Image  
○ Tae-Ho Kim・JeongJu Bae・Chan-Su Yang (KIOST)

31日午後 SAR and its related technologies (14:00~)

10. Small displacement detection by 24 GHz FM-CW SAR using Khatri-Rao product virtual array  
○ Toshifumi Moriyama・Kohei Yamada・Kensuke Sasaki (Nagasaki Univ.)
11. 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)
12. Estimating moving angle of a ship in PiSAR-2 images by MA-ATI SAR  
○ Takero Yoshida (Univ. of Tokyo)・Kazuo Ouchi (IHI)・Chan-Su Yang (KIOST)

SAR and its related technologies

13. Imaging Performance Improvement of Millimeter Wave SAR for Concealed Weapon Detection by Multi-static Observations  
○ Koki Homma・Hiroyoshi Yamada・Ryoichi Sato (Niigata Univ.)
14. [Short Paper] Performance Evaluation of Ship Detection Using Sentinel-1 IW Data  
○ Seungryong Kim・Chan-Su Yang (KIOST)
15. Practical Approach for Noise Reduction in Synthetic Aperture Radar (SAR) Images  
○ Ju-han Park・Chan-Su Yang (KIOST)

11月1日午前 Polarimetry and Classification

1. Scattering Vector Parameterization for Rank-1 Decomposition of Polarimetric SAR Imagery  
○ Junjun Yin (USTB)・Jian Yang (Tsinghua Univ.)
2. 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.)
3. 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.)

Polarimetry and Classification

4. Aircraft Image Classification using Perceptual Hashing  
○ Riku Noguchi・Makoto Tanaka (Tokai Univ.)
5. Sea Fog Classification from GOCI Images using CNN Transfer Learning Models  
○ Ho-Kun Jeon・Jonathan Edwin・Seungryong Kim・Chan-Su Yang (KIOST)
6. 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.)

1 日午後 (12:40~)

7. Effects of the Lunar Nodal Precession on the Imaging Performance of the Moon-based SAR

○Zhen Xu · Kun-shan Chen · Guang Liu (RADI, CAS)

8. 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)

9. Electromagnetic Field Strength Evaluations and Point Source Power Estimation at 4 GHz Wireless Avionics Intra-Communication Band Using Experimental Aircraft

○Shunichi Futatsumori · Norihiko Miyazaki (ENRI) ·

Tetsuya Sekiguchi · Takashi Hikage · Toshio Nojima (Hokkaido Univ.)

**Theory and Experiment for Electromagnetic wave**

10. 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.)

11. Measurement of Millimeter-wave Propagation and Scattering from Vegetation Canopy

○Chiung-Shen Kul · Dan-Dan Yao · Kun-Shan Chen · Zhao-Liang Li · Gen-Yuan Du (Xuchang Univ.)

◆IEEE AES Society Japan Chapter 共催

☆SANE 研究会今後の予定 [ ] 内発表申込締切日

11月29日(金) 阪工大梅田キャンパス テーマ: レーダ信号処理, リモートセンシング及び一般

2020年1月23日(木), 24日(金) 長崎県美術館 テーマ: 測位・航法, レーダ及び一般

**【問合先】**

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