

★宇宙・航行エレクトロニクス研究会 (SANE)

専門委員長 小林弘一 副委員長 水野貴秀・森山敏文

幹事 牧 謙一郎・小幡 康 幹事補佐 毛塚 敦・秋田 学

日時 11月24日(木) 9:00~17:50

25日(金) 9:00~12:00

会場 GIS TAIPEI TECH Convention Center, National Taipei University of Technology (NTUT), Taipei ((Building Everlight) 2-3F., Ln. 193, Sec. 3, Zhongxiao E. Rd., Da'an Dist., Taipei City 106, Taiwan R.O.C. TEL [095] 819-2559 Toshifumi Moriyama)

議題 ICSANE2016

24日午前 Opening and Keynotes

1. [keynote speech] ALOS2 Polarimetric Radar Observation over South-East Asia
Yoshio Yamaguchi (Niigata Univ.)
2. [keynote speech] Recent Advances in High-Performance Computing for Remote Sensing
Bormin Huang (Univ. of Wisconsin-Madison)

Main Hall (10:40~12:00)

3. Detection of small wildfire by the uncooled micro bolometer camera onboard small satellite
○Tetsuya Fukuhara (Rikkyo Univ.)・Toru Kouyama・Soshi Kato・Ryosuke Nakamura (AIST)
4. LIDAR システムを使ったパルス検出 IC LIDARX の実験的評価 ○水野貴秀・川原康介・池田博一 (JAXA)
5. Design of Adaptive Sliding-mode Attitude Controller for Spacecraft Fu-Chun Yeh (CUST)
6. 衛星通信システムの柔軟性評価モデルに関する検討 ○金子和真・西山大樹・加藤 寧 (東北大)

Room 303 (10:40~12:00)

7. Signal detection under high probability of false alarm by iterative elliptic approach
○Takeshi Amishima・Suzuki Nobuhiro (Mitsubishi Electric)
8. パッシブレーダによる航空機検出の検討 ○大津山卓哉・本田純一 (電子航法研)
9. Experimental Results of Target Detection Using Multistatic Passive Radar Exploiting FM Radio Broadcast Signals
○Ryuhei Takahashi・Yasunori Kato・Masahi Mitsumoto・Yusuke Kitsukawa・Toru Takahashi・Hirohisa Tasaki (Mitsubishi Electric)
10. Vehicle Tracking with Multiple Reflection Points by Automotive Multi-Frequency Step CPC Millimeter-Wave Radar
○Kaichi Fujimura・Mizuki Seraku・Yoshio Kosuge・Masato Watanabe・Manabu Akita・Takayuki Inaba (Univ. of Electro-Comm.)

24日午後 Room 303 (13:30~14:50)

11. Phased Array Radar Beam Management Algorithm with Prior Less-Accurate Sensor Information
Tetsutaro Yamada・○Yasushi Obata・Tetsuji Harada (Mitsubishi Electric)
12. SAR IMAGING SIMULATION BASED ON THE EXTENDED TARGET MODEL
○Chiung-Shen Ku (National Central Univ.)・Kun-Shan Chen・Saibun Tjuatja (Univ. of Texas at Arlington)・Pao-Chi Chang (National Central Univ.)・Yang-Lang Chang (National Taipei Univ. of Tech.)
13. クロストラック干渉 SAR による高度計測に関する一考察—航空機 SAR と衛星 SAR の比較—
○灘井章嗣・上本純平・児島正一郎 (NICT)
14. Statistical Analysis of High Frequency Radio Parameters on St. Patrick's Day Storm in Southeast Asia
○Phimmasone Thammavongsy・Pornchai Supnithi・Somjai Klinngam (KMITL)・Takuya Tsugawa・Kornyanat Watthanasangmechai (NICT)

Room 304 (13:30~14:50)

15. Bragg Scattering in Paddy Fields Observed by ALOS and ALOS2
○Yoshio Yamaguchi・Yuto Otake・Hiroyoshi Yamada (Niigata Univ.)・Hirokazu Kobayashi (OIT)
16. Polarimetric scattering analysis for detecting flooded river and the surrounding area using quad-pol SAR data
○宮崎孝祐・佐藤亮一・山口芳雄・山田寛喜 (新潟大)
17. AERIAL VALIDATION OF A SMALL SATELLITE SAR MISSION FOR TAIWAN DISSASTER MONITORING AND EARTH OBSERVATION Chih-Li Chang (NSPO)
18. Fundamental study on polarimetric characteristics of urban structures

○Toshifumi Moriyama · Kazuya Nakamura (Nagasaki Univ.)

Room 303 (14 : 50~16 : 10)

19. Hybrid PSO and GSA-based Impurity Function Band Prioritization Using Weighted Majority Voting for Band Selection of High Dimensional Data Sets
○Yang Lang Chang · Yung-Hao Lai · Ming-Xiu Xu · Jyh-Perng Fang (NTUT) · Chihyuan Chu (G-AVE Technology)
20. Modified Nearest Feature Space Approach for Hyperspectral Image Classification
○Yang Lang Chang · Yung-Hao Lai · Tzu-Wei Tseng · Jyh-Perng Fang (NTUT) · Chihyuan Chu (G-AVE Technology)
21. Evaluation of trajectory based errors between high and low resolution WRF model sea surface wind data with sea fog advection detected from GOCI imagery
○Ahmed Harun Al Rashid · Chan-Su Yang (Univ. of Science & Tech.)
22. Heterogeneous multi-Robotic System for Disaster Response
○Min-Fan Ricky Lee · Cheng-Han Lance Tsai (Taiwan Tech.)

Room 304 (14 : 50~16 : 10)

23. Monitoring the Activity of Deep Seated Landslides by Using TCP-InSAR? Examples From Chinglin and Lushan of Central Taiwan
○Ching-Weei Lin (NCKU) · Rou-Fei Chen (CCU) · Lei Zhang (HK polytec. Univ.) · Hsiao-Yuan Yin · Keng-Ping Cheng (SWCB)
24. Landslide displacement investigation and mechanism with various satellite radar data
○Kuo-Lung Wang · Jun-Tin Lin (NCNU)
25. Experimental Ka-band Ground Based Synthetic Aperture Radar (GBSAR)
○Hung-Wei Lee (NCSIST) · Cheng-Yen Chiang (NCU)
26. Ground-based Synthetic Aperture Radar for Land Deformation Monitoring : Development and Preliminary Results
○Yee-Kit Chan · Voon-Chet Koo (iRadar) · Chih-Yuen Chu (G-Ave)

Room 303 (16 : 30~17 : 50)

27. Fundamental Study on Calibration of Orbit Error for SAR Tomography with Pi-SAR2-X Dataset
○Masanori Gocho · Hiroyoshi Yamada · Yoshio Yamagushi · Ryoichi Sato (Niigata Univ.)
28. Experimental Study on Target Estimation for POLSAR by Using Millimeter Wave Automotive Radar
○Jun Minotani · Hiroyoshi Yamada · Yoshio Yamaguchi (Niigata Univ.) · Yuuichi Sugiyama (Fujitsu TEN)
29. Experimental Verification of a Layover Distortion Compensation Method for CSAR Image Based on Height Estimation
○Taichi Nakamura · Guanghao Sun · Tetsuo Kirimoto (UEC)
30. An InSAR Phase Estimation Method for Surface Deformation Studies
○Lee Sui Ping · Chan Yee Kit · Lim Tien Sze · Koo Voon Chet (MMU)

Room 304 (16 : 30~17 : 50)

31. A Study on Maximal Ratio Combining in Stepped Multiple Frequency CPC Radars for Multipath Fading
○Manabu Akita · Masato Watanabe · Takayuki Inaba (UEC)
32. Angle Estimation Method using Blocking Matrix in Stepped Multiple Frequency Complementary Phase Code Modulation
○Masato Watanabe · Shohei Umemura · Manabu Akita · Takayuki Inaba (UEC)
33. An Experimental study on the Effectiveness of Hierarchical-Bayesian Compressed Sensing for High-Accuracy and Robust TOA Estimation
○Akira Moro · Guanghao Sun · Tetsuo Kirimoto (UEC)
34. An experimental study of compressive sensing for synthetic aperture radar
○Takehiro Hoshino · Teruyuki Hara · Yuya Yokota (Mitsubishi Electric)

Poster session (14 : 50~17 : 50)

35. [ポスター講演] An Efficient Target Detection by Band Reduction and Partial Filtering for Hyperspectral Images
○Lena Chang · Chung-Chi Miao (NTOU)
36. [ポスター講演] HIGH-PERFORMANCE ADAPTIVE LOCAL KRIGING APPLIED TO RECOVERING SURFACE DEFORMATION ASSOCIATED WITH THE FAULT ZONES
○Meng-Che Wu (NSPO) · Wen-Yen Chang (NDHU) · Yang-Lang Chang · Sheng-Yung Shih (NTUT) · Chihyuan Chu (G-AVE) · Bormin Huang (UW)
37. [ポスター講演] Predicting the potential distribution of yellowfin tuna (*Thunnus albacares*) in the Arabian Sea

- using the satellite-derived data and GIS ○Ming-an, Lee • You-Jin, Xu • Wan-Chen, Yang (NTOU)
38. [ポスター講演] Flight Safety Enhancements for Air Traffic Control System
Tao-Cho Chen • Ta-Ming Shih • ○Yan-Hong Lin (China Univ. of Science and Tech.)
39. [ポスター講演] Polarimetric Modeling of Bistatic Radar Scattering From the Ocean Surface
Tzong-Dar Wu • ○Chih Min Lin (National Taiwan Ocean Univ.)
40. [ポスター講演] Ground-Based Synthetic Aperture Radar Observations of Nearshore Sea Surface
Tzong-Dar Wu • ○Weling, Hsu (National Taiwan Ocean Univ.) • Cheng-Yen Chiang (National Central Univ.) • Chih-tien Wang • Chihyuan Chu (G-AVE Technology)

Welcome Reception

25 日午前 Room 303 (9 : 00~10 : 20)

1. An Analysis of 3-dimensional Location and Velocity Estimation Using Range and Doppler Measurements
○Yoshio Kosuge (ENRI/UEC) • Tadashi Koga • Hiromi Miyazaki (ENRI) • Manabu Akita • Takayuki Inaba (UEC)
2. Improvement of Position Accuracy by Combining TDOA and TSOA
○Hiromi Miyazaki • Yoshio Kosuge (ENRI) • Toshiyuki Tanaka (Nagasaki Univ.)
3. Quiet time ionospheric delay gradient estimation based on single frequency around Suvarnabhumi airport, Thailand
○Jirapoom Budtho • Acharaporn Bumrungrkit • Sarawoot Rungraengwajaike • Pornchai Supnithi (KMITL) • Susumu Saito (ENRI) • Apitew Saekow (Stamford Univ.)
4. Analysis of Path-Keeping Accuracy on Curved Paths Using a Flight Management System (FMS) Simulator
○Sakae Nagaoka • Mark Brown (ENRI)

Room 304 (9 : 00~10 : 20)

5. On the PIN-diode based reconfigurable grating in the micrppwave regime
○Cheng-Chung Lin • Chi-Chun Lin • Sang-Fei Wang • Yi-Chan Lu (NCSIST)
6. Investigation of Microwave Electromagnetic Field Characteristics inside Carbon Fiber Reinforced Plastic Structures—Fundamental Electromagnetic Characteristics of Composite Materials for Aircrafts—
○Shunichi Futatsumori • Kazuyuki Morioka • Akiko Kohmura • Naruto Yonemoto (ENRI)
7. Study of a Class of Digital Multi-Channel Dimming Circuits
Sendren Sheng-Dong Xu • ○Jei-Hung Chen (NTUST)
8. FPGA-Based Chirp Signals Generator for Synthetic Aperture Radar (SAR) Applications
○Chieh-Fu Chang • Ren-Bang Lin • Ming-Hwang Xu (NARL-NSPO)

Room 303 (10 : 40~12 : 00)

9. Development of selective DOA estimation algorithm using information of signal correlation
○Hirofumi Fukushima • Nobhiro Suzuki (Mitsubishi Electric)
10. Multi-path Exploitation Method Using Doppler Based Signal Recognition for UWB Through-the-wall Radar
○Masafumi Setsu • Shouhei Kidera (UEC)
11. Beam Scanning and Radiation Pattern for Conformal Array Antenna
○Takeru Oka • Hirokazu Kobayashi (OIT)
12. GPU-based Out-of-Core Implementation for SAR Imaging using SubAperture-based Extended Chirp Scaling
○Masato Gocho • Atsuo Ozaki (Mitsubishi Electric)

Room 304 (10 : 40~12 : 00)

13. Experimental study on detection of automobile in flooded urban area using quad-pol SAR data
○Takanori Ishikuro • Ryoichi Sato • Yoshio Yamaguchi • Hiroyoshi Yamada (Niigata Univ.)
14. 衛星搭載用ソフトウェアフレームワーク (C2A) のマルチプラットフォーム展開
○中村将大 • 木村真一 (東京理科大) • 中島晋太郎 • 五十里 哲 (東大)
15. Ground Observation of Nighttime airglow emission modulated by 2014 Bangladesh storm generated gravity wave
○Chien-Chung Chou • C.L. Kuo (NCU) • Tai-Yin Huang (Penn State Lehigh Valley) • Jianfeng Dai (CQU)
16. Statistical analysis of separation between equatorial plasma bubbles
○Acharaporn Bumrungrkit • Sarawoot Rungraengwajaike • Pornchai Supnithi (KMITL)

25 日午後 Technical Tour (13 : 00~17 : 30)

A visit trip to : Taoyuan International Airport Air Traffic Control Tower, AIR NAVIGATION & WEATHER SERVICE.

CAA. MOTC, Taiwan

◆IEEE AES Society Japan Chapter 共催

☆SANE 研究会今後の予定 [] 内発表申込締切日

12月 休会

2017年1月26日(木), 27日(金) 長崎県美術館 [11月11日(金)] テーマ: 測位・航法, レーダ及び一般

2月22日(水), 23日(木) 勝浦ホテル三日月 [12月8日(木)] テーマ: 衛星応用技術及び一般

【発表申込先】 下記研究会発表申込システムからお申込み下さい.

<http://www.ieice.org/jpn/ken/kenmoushikomi.html>

【問合せ先】

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