

★衛星通信研究会 (SAT)

専門委員長 杉山隆利 副委員長 鈴木利則・辻 宏之

幹事 中平勝也・山崎浩輔

日時 10月13日(木) 9:00~17:40

14日(金) 9:15~17:45

会場 韓国仁川大学松島キャンパス Faculty Office R305 (119 Academy-ro, Yeonsu-gu, Incheon, Korea. 地下鉄:仁川大入口下車(金浦空港より約70分,仁川空港より約90分). http://www.inu.ac.kr/mbshome/mbs/inujpn/subview.do?id=inujpn_011001000000)

議題 衛星通信技術及び一般

13日午前 Opening Remarks

1. Opening Remarks-1 from Korea Seongbong Choi
2. Opening Remarks-2 from Japan Takatoshi Sugiyama

General Session 1

SAT-3. Fundamental study on application of Imaging Reflector Antenna to onboard antenna for maritime broadband satellite communications

○Daisuke Takahashi (TMU)・Amane Miura・Teruaki Orikasa・Akira Akaishi (NICT)・Hajime Fukuchi (TMU)

4. The Ku-band FMCW RADAR System for SAR Imaging Dae-Hwan Jung・Seong-Ook Park (KAIST)

5. X-Band SAR System for Land Observation Application
Mi-Young Park・Jang-Su Chae, Jung-Su Lee・Gu-Whan Shin (SeTRec KAIST)

General Session 2

SAT-6. au HAKUTO Moon Challenge—Enhancement of radio communication between rover and lander—

○Kosuke Yamazaki・Hiroaki Honma・Issei Kanno・Masayuki Nakano (KDDI Labs)・Toshio Shimizu・Toshiki Tanaka (ispace)

7. DTN payload development for Korea Lunar Exploration Jin-Ho Jo (ETRI)

8. Analysis and Verification of Payload Technical Specifications for Efficient Agriculture and Forestry Satellite Observation Bum-Seung Kim・Woo-Kyung Lee (Korea Aerospace Univ.)

13日午後 General Session 3

SAT-9. Proposal of a novel Resource Control Technique using Spectrum Suppressed Transmission for Multi-beam SATCOM systems ○Katsuya Nakahira・Daisuke Murayama・Kohei Suzaki (NTT)

10. Research on additional data transmission scheme for satellite communication

Eun Su Kang・Sang Burm Ryu・Lee Sang Gyu・Lee Seung Hoon (KARI)

11. Shared-band Satellite Communication Technique based on DVB-S2 and DVB-RCS2

Sooyeob Jung・Deock Gil Oh (ETRI)

General Session 4

12. Development of a Baseband Modem SOC (System On chip) for the GMR-1 3G Mobile Satellite Applications

Jae-Pil Lee・Kwang-Ho Jin・Won-Ho Lee (APSI)

13. Output Multiplexer Using TE011 Mode Changsoo Kwak・Manseok Uhm・Inbok Yom (ETRI)

SAT-14. A study on 64APSK Coded Modulation

○Yuki Koizumi・Yoichi Suzuki・Masaaki Kojima・Kyoichi Saito・Shoji Tanaka (NHK)

Special Session 1

SAT-15. [特別講演] Experimental Study on Airborne Network using WiFi Hiroki Nishiyama (Tohoku Univ.)

Special Session 2

16. [特別講演] Advanced Antenna Systems for Satellite Communication Payloads

Sudhakar Rao (Northrop Grumman Space Systems)

14日午前 General Session 5

SAT-1. Experimental study for systematic error measurement of weights of array feed for onboard satellite communications antenna ○Teruaki Orikasa・Amane Miura (NICT)・Shinji Senba (AXIS)

2. Plume impingement analysis of attitude control thrusters on the telecommunication antennas of satellite
Jongwon Chae (KARI)

3. Challenges for Achieving Onboard Processing in Large Scale Multibeam Satellite Systems

Jihwan Choi (DGIST & IITP)

General Session 6

4. Design of a Compact and Lightweight Lens Antenna Sohyeun Yun (ETRI)
5. Metamaterial Beamforming/Multi-Beam Antenna Feeds for Satellite Communication
 Sungtek Kahng (Incheon National Univ.)
- SAT-6. Base station antenna systems configuration using distributed array antenna constructing technique
 ○Yoshinori Suzuki • Kouhei Suzuki • Daisuke Goto • Katsuhiko Yamanaka • Fumihito Yamashita • Naoki Kita (NTT)

14 日午後 General Session 7 (13 : 10~)

- SAT-7. Experimental verification on the performance of Direct Spectrum Division Transmission adapter
 ○Fumihito Yamashita • Goto Daisuke • Junichi Abe • Naoki Kita (NTT)
8. Power Control using SIR for CDMA Communication Between MSs
 Hyeon-Cheol Lee • Do Kyoung Lee • Jong Tae Lee (KARI)
9. Feasibility study on the satellite payloads for the Korea Communication and Broadcasting Satellite
 Manseok Uhm • Inbok Yom (ETRI)

General Session 8

10. K-band phase discriminator based on six-port receiver for Land-mobile satellite communications
 Seong-mo Moon • Inbok Yom (ETRI)
11. K-band Substrate-Integrated Waveguide (SIW) Resonator Filter
 Boyoung Lee • Seunggoo Nam • Changsoo Kwak • Juseop Lee (Korea Univ.)
12. Waveguide Filters for Satellite L-band Communication Sungtek Kahng (Incheon National Univ.)

General Session 9

13. High-Power Handling Capability of Circular Waveguide Cavity Filter for Geostationary Satellite Applications
 Sun-Ik Lee (KARI)
- SAT-14. A Signal Space Analysis of Interferences Cancellation Systems—Communication is recovery of originality rather than orthogonality of receive signals— Osamu Ichiyoshi (HNF21C)
15. Study of High Speed Data Downlink System in Low Earth Orbit Satellite
 Ryu Sang Burm • Kang Eun Su • Lee Sang Gyu • Sang Soon Yong • Lee Seung Hoon (KARI)

Closing Remarks

16. Closing Remarks-1 from Korea Sungtek Kahng
 17. Closing Remarks-2 from Japan (with the introduction of JC-SAT 2017) Toshinori Suzuki
- ◎Reception Party (18 : 00~20 : 00, Oct. 13) with JC-SAT Award Ceremony

【問合先】

SAT 研究会幹事

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