

★衛星通信研究会 (SAT)

専門委員長 石川博康 副委員長 井家上哲史・加保貴奈
幹事 渋谷恵美・大倉拓也 幹事補佐 五藤大介・小泉雄貴

日時 10月7日(木) 13:00~18:40
8日(金) 8:30~18:05

会場 オンライン開催

議題 衛星通信技術及び一般 (JC-SAT2021: 韓国 KOSST 連催)

7日 Opening ceremony (13:00~13:15)

Welcome Address by Dr. Ki-keun Kim (ADD and President of KOSST)

Congratulatory Address by Dr. Hiroyasu Ishikawa (Nihon Univ.)

Intermission and preparation for sessions

Satellite/Telecommunication System (I) (13:15~15:10)

1. [招待講演] Space-Air-Ground Integrated Networks の実現に向けて 川本雄一 (東北大)
2. The Study of C-band SAR Payload for CAS-5 Program Sang Gyu Lee (KARI)
3. PROPOSAL FOR A USER-CENTRIC RAN ARCHITECTURE TOWARDS BEYOND 5G ○Kosuke Yamazaki・Takeo Ohseki・Yoshiaki Amano・Takahide Murakami・Hiroyuki Shinbo・Yoji Kishi (KDDI Research)

4. [Specail talk] Ring of Equator Hongyul Paik (ASTU)

Building-Blocks for Satellite/Telecommunication System (I) (15:20~16:50)

5. 衛星通信分野の研究におけるネットワークシミュレーション技術の役割と現状について
○太田敏史・谷林昭浩・藤井義巳・井下貴仁 (構造計画研)
6. Analysis of X-band transponder for deep space communication Jung-Su Lee (KAIST Satrec)
7. [特別講演] Thales TWT for satellites last developments and technical progress
Jean-Francois Cabaret (TAVS)

Building-Blocks for Satellite/Telecommunication System (II) (17:00~18:40)

8. Acceleration Approach to Model Raw Signals from Ground Scatterers Based on Multi-Core Processing and Analysis on Simulated Synthetic Aperture Radar Images Jaewon Lim (ADD)
9. A Compact SIW Filter for the Lighter Cube-Satellite Reflectarray Antenna
Munsu Jeon (Incheon National Univ.)
10. A potential cause of pulsive noises in receiving BS-IF signals
○Ryouichi Nishimura・Byeongpyo Jeong・Hajime Susukita・Takashi Takahashi (NICT)
11. 4X4 Sub-Array Unit Antenna for Shared Aperture TxRx at Ka band Design and Manufacture
Haneul Kim (LIGnex1)

8日午前 Satellite/Telecommunication System (II) (8:30~10:10)

1. IOWN 宇宙コンピューティング実現に向けた地球センシングプラットフォーム／無線アクセスネットワークの研究
開発 山下史洋 (NTT)
2. [Special talk] New Korean GEO Communication Satellite Program Hyoungh Yoll Jun (KARI)
3. A study on improving error-correction performance by combining signals received via satellite channel and IP network for 21-GHz-band satellite broadcasting ○Yuki Koizumi・Masashi Kamei (NHK)
4. Small-Sized Metamaterial Feeding System Combined Polarization-Reconfigurable Antenna
Yejune Seo (Incheon National Univ.)

Building-Blocks for Satellite/Telecommunication System (III) (10:20~11:50)

5. [Special talk] ETRI SATCOM R&D Activities-Past Achievements, Current Projects, and Future Plans
Byoung-Sun Lee (ETRI)
6. Relationship between rain attenuation characteristics and rain area distribution on the propagation path of satellite communications links ○Yasuyuki Maekawa・Yoshiaki Shibagaki (Osaka Electro-Commun. Univ.)
7. Modified Lagrangian method and initial point setting for satellite resource allocation
Hyein Lee (Jeonbuk National Univ.)

8日午後 Building-Blocks for Satellite/Telecommunication System (IV) (12:40~15:10)

8. Exhaustive Search Based Bipolar Chip Pulse Design for a New Navigation Satellite System in L6S Bands
Hyounghsoo Lim (ETRI)
9. Design of Disaster Warning Message in Open Service of KPS Wonchan Jung (ETRI)
10. Improvement Effect of Positioning Accuracy Based on Multiple Observations of Doppler Shift for User Position Detection System Using Unmanned Aerial Vehicles

○Hiroyasu Ishikawa (Nihon Univ.)・Hideyuki Shinonaga (Toyo Univ.)

11. Fast Satellite Tracking Algorithm for Conical Scan Method Hyun-Wook Jo (ADD)

12. Frequency Utilization Efficiency of Spectrum Suppressed Transmission for ESV

○Kenji Yanagida・Takatoshi Sugiyama (Kogakuin Univ.)

13. Development of Space Internet Payload for Korea Lunar Exploration Jin-Ho Jo (ETRI)

Building-Blocks for Satellite/Telecommunication System (V) (15 : 20~18 : 05)

14. Cloud Detection for KOMPSAT-3, 3A Images Using Deep Learning Techniques Han Oh (KARI)

15. 衛星伝送におけるアナログベースバンド信号を入出力インターフェースとしたデジタルプリディストーションの検討
○小島政明・小泉雄貴・亀井 雅 (NHK)

16. Optimal joint user selection and beam scheduling based on channel conditions and security threat
Suhyeon Jeon (DGIST)

17. GNSS を利用した災害危険情報放送実験報告

○嶋津恵子 (AIIT)・及川航平 (横浜国大)・芝田朋世 (都立大)・五十嵐由衣・青羽真利・大島真言・平岡恵里 (AIIT)

18. Analysis of the number of satellites for satellite virtual networks supporting the Korean peninsula
Taeyoun Kim (DGIST)

19. Development of Service Interface between KDSA and Service User Durk-Jong Park (KARI)

【問合先】

SAT 研究会幹事

渋谷恵美 (KDDI 総合研究所), 大倉拓也 (NICT), 五藤大介 (NTT), 小泉雄貴 (NHK)

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