Session 7: Component & Advanced Technology
Chairperson: Takashi Ohira (ATR)

13:30 Development of Mobile DBS/CS Receiving Antenna System
*Yoon Kyoung Chae, Il In Jo, Chang Hoon Im (Toba Telecom)

13:55 Design of Broadband Microstrip-to-Waveguide Transitions for Satellite Application
*Seung-Hwan Kim, Ji-Soo Lim, Jae-Hoon Choi (Konyang Univ.), In-Bok Yom (ETRI)

14:20 A Synchronization Method for Synchronous CDMA Systems with GEO Satellites
*Takuya Sakamoto, Daisuke Umehara, Makoto Kawai (Kyoto Univ.)

14:45 RF Interference Analysis for KOMPSAT-II Spacecraft
*S. B. Lim, D. Y. Kim, Y. K. Chang (Hankuk Aviation Univ.)

15:10 Performance Evaluation of Interference Canceler and Burst-mode Spread Spectrum Demodulator for Bi-directional Satellite Communication Systems Employing Superposed Transmission
*Hideki Toshinaga (NTT), Kiyoshi Kobayashi (NTT-AT), Kohei Ohata, Masazumi Ueba (NTT)

15:35 – 15:45 Break

Session 8: Service & Operation
Chairperson: Jongsoo Seo (Yonsei Univ.)

15:45 Study on Scheduling Algorithm for High-Power Short Message Delivery via Multiple Non-GSO Satellites
Shinichi Nomoto, *Megumi Shibuya, Satoshi Konishi (KDDI R&D Labs.)

16:10 Broadcasting of Highly Accurate Timing & Frequency Reference via Geostationary KOREASAT
Keehoon Lee, Jae-chul Yoon, *Jongsoo Seo (Yonsei Univ.)

16:35 A Method of Single-hop Connection between Mobile User Terminals Using a Through Repeater GEO Mobile Satellite
*Nobuyuki Kataoka, Kazuhiito Ebina, Masazumi Ueba (NTT)

17:00 On the Satellite Resource Allocation Algorithm Taking Account of Fairness among Spotbeams
*Shinobu Nanba, Yoji Kishi, Satoshi Konishi (KDDI R&D Labs.)

*Satoshi Konishi, Yoji Kishi, Shinobu Nanba, Shinichi Nomoto (KDDI R&D Labs.)

Closing Session
Chairperson: Satoshi Konishi (KDDI R&D Labs.)

17:50 Closing Address
Soon Dal Choi (KAIST)
1st Day, October 23, Tuesday

Opening Session
Chairperson: Satoshi Konishi (KDDI R&D Labs.)
9:30 Opening Address
Hideki Mizuno (NTT)
9:40 Congratulatory Address
Kim Kwang-Young (KOSST)
9:50 Keynote Speech I: Technical Activities of IEEE ComSoc Satellite and Space Communications Technical Committee and Asia Pacific Board
*Iwao Sasase (Keio Univ.)
10:20 Keynote Speech II: Korea-Japan Cooperation in Geostationary Multi-purpose Satellite Development
*Han Hwangbo (Korea Telecom)
10:50 – 11:00 Break

Session 1: Policy & Regulation
Chairperson: Jae-Hoon Choi (Hanyang Univ.)
11:00 University-based Space Technology R&D and Human Resource Development in Korea
*Soon Dal Choi (KAIST)
11:25 Korea-Japan Cooperation in Geostationary Multi-purpose Satellite Development
*Tuhwan Kim, Hwanghee Cho (Ajou Univ.)
11:50 Policy and Law Concerning Satellite Services in the Republic of Korea
*Bo-Hyun Seo (KISDI)
12:15 – 13:30 Lunch

Session 2: Satellite System
Chairperson: Yoichi Koishi (Toshiba)
*Ryutaro Suzuki, Iwao Nishiyama, Shigeru Motoyoshi (TAO), Yasuhiko Yasuda (Waseda Univ.)
*KyungKoo Kang, JinWoong Kim, ByungSeob Lee (IBM Korea)
14:20 Planning for the Future Broadband Mobile Satellite Services (MSS)
*Eyal Trachtman (Inmarsat), Nobuyuki Kawai(KDDI), Kanshiro Kashiki, Eji Chiha (KDDI Msat)
14:45 Satellite Multimedia TV System
*Hee Chan Kim (Korea Telecom)
15:10 – 15:20 Break

Session 3: Experiments & System Design
Chairperson: Jae-Dong Choi (KARI)
15:20 Joint Japan-Korea HDR Satellite Communication Experiment Phase II
*Nozomu Nishinaga, Takashi Takahashi, Masato Tanaka, Jae-Hyuk Jang (CRL)
15:45 Electrical System Design of Prototype Communication Satellite
*Jae-Dong Choi, Young-Woong Park, Seong-Bong Choi, Zeen-Chul Kim (KARI)
16:10 Conceptual Design Analysis for the Communications and Broadcasting Satellite Payload System
* Seong Pal Lee, Jong Won Eun, Tae Jin Chung, Cheon Sig Sin, Moon Hee You (ETRI)
16:35 IP Network Performance in Mobile Environments over Ku Band Satellite Links
*Fumiaki Nagase, Hiroshi Tanaka, Masazumi Ueba (NTT)
17:00 – 17:10 Break

Session 4: System Performance
Chairperson: Masazumi Ueba (NTT)
17:10 A Study on Satellite Internet Systems –Reliable Multicast with an On-Board ATM Switch
*Kiyohiko Uehara (Toshiba)
17:35 BSAN System Development for the Broadband Multimedia Services on the Interactive Satellite Links
*Gwang-Ja Jin, Yong-Hoon Cho, Ho-Jin Lee (ETRI)
18:00 A Satellite ATM Network Simulator
*Takao Harakawa, Hideki Shimizu, Susumu Takase (Hitachi), Iwao Nishiyama (TAO)
18:25 – 19:00 Break
19:00 – 21:00 Reception

2nd Day, October 24, Wednesday

Session 5: Rain Attenuation & Propagation
Chairperson: Jong Won Eun (ETRI)
9:00 Ku-band satellite signal propagation experiments and MVL experiments using satellite network in Asian pacific region
*Kiyoshi Igarashi, Hisamitsu Minakoshi, Shinichi Watari, Takeyuki Ojima (CRL), Narong Hemmakorn (King Mongkut’s Inst. of Tech. Ladkrabang), Akachai Sang-in (Chiang Mai Univ.), Utoro Sastrokusumo (Inst. of Tech. Bandung), Syed Idris Syed Hassan (Univ. of Science Malaysia), Roulia Reyes (Ateneo de Manila Univ.), Kevin Makata (The Univ. of the South Pacific), Makoto Sasaki, Takao Minode, Yasunori Yoshimura (ARIB)
9:25 Rain attenuation characteristics in Ku and Ka band satellite communications related to the kinds of rain fronts
*Yasuuki Maekawa (Osaka Electro-Communication Univ.)
9:50 Development of the Propagation Prediction Method using KOREASAT
*Yong-Seok Choi, Joo-Hwan Lee, Yang-Su Kim, Hyung-Soo Lee (ETRI)
10:15 Estimation of Transmitting Power to Compensate for Rain Attenuation In an Advanced Broadcast-Satellite System
*Fumiaki Minematsu, Toshihiro Nomoto (NHK)
10:40 – 10:50 Break

Session 6: Modulation & Digital processing
Chairperson: Jun-ichi Takada (Tokyo Inst. Tech.)
10:50 Multicarrier/Multirate modem providing channel de-assemble and assemble functions
*Kazuhito Tanabe(NTT), Kiyoshi Kobayashi(NTT-AT), Kohei Ohata, Masazumi Ueba (NTT)
11:15 The Design and Implementation of a DVB-RCS modulator using single FPGA
*Hoon Jeong, Seung Joon Lee, Yong Hoon Cho (ETRI)
11:40 Reduced Algorithm of Feedback Informations for An Adaptive Modulated Multicarrier System in Wideband Radio Channels
*Min-Goo Kang (Han-shin Univ.), Soong-Ju Im (Joong-Ang Ilbo), Hyun-Su Cheon, Chang-Eon Kang (Yon-Sei Univ.)
12:05 A Flexible Bandwidth Allocation System Using Onboard DSP Technologies
*Shinnichi Egami (Shizuoka Univ.)
12:30 – 13:30 Lunch