November 4(Wed)

09:00~12:00 CGSIC Meeting(Location:202)
09:00~09:05 Opening Mr. John Wilde*(Chairman of the CGSIC International Sub-Committee, UK)*
09:05~09:20 Welcome Captain Ed. Thiedeman*(USCG Navigation Centre and Deputy Chair of CGSIC, U.S.A.)*
09:20~09:40 CGSIC Description and Invitation to Participate Mr. John Wilde*(Chairman of the CGSIC International Sub-Committee, UK)*
09:40~10:10 Coffee Break
10:10~10:30 US Diplomatic Activities in Support of Worldwide GNSS Interoperability Mr. Ray Clore*(US Department of State, U.S.A.)*
10:30-10:50 GPS Constellation Health and Modernization Mr. Rick Hamilton*(USCG and CGSIC Executive Secretariat, US.A.)*
10:50~11:05 GPS Interference Detection
11:05~11:20 Questions
12:00~13:00 Lunch
13:00~13:20 Opening Ceremony(Location : Samda Hall)
13:05~13:10 Opening Address Dr. Pilho Park(KASI, Korea)
13:10~13:15 Congratulatory Address 1 Dr. Young Gon Lim(KORDI, Korea)
13:15~13:20 Congratulatory Address 2 Prof. Sang Jeong Lee(Chungnam National University, Korea)
13:20~14:00 Keynote Speech (Location: Samda Hall) Chair: Sang Jeong Lee(Chungnam National University, Korea)
13:20~14:00 “Quo Vadis? Where are We Going in Satellite Navigation” Dr. Guenter W. Hein*(Head of Galileo Operations and Evolution Department, Germany)*
14:00~16:00 Plenary Talk(Location : Samda Hall) Chair: Sang Jeong Lee(Chungnam National University, Korea)
14:00~14:40 “Gyroscope Technology for Inertial Navigation” Prof. Jang Gye Lee *(Seoul National Univ., Korea)*
14:40~15:20 “GNSS Can We make Easier?” Prof. Miguel M. Romay Merino*(GMV, Spain)*
15:20~16:00 “U.S. Loran Status” Captain Ed. Thiedeman*(USCG Navigation Centre and Deputy Chair of CGSIC, U.S.A.)*
16:00~16:30 Coffee Break
16:30~17:50 Status of GNSS(Location : Samda Hall) Chair: Prof. Gyu-In Jee(Konkuk Univ., Korea)
16:30~16:50 “Status of Policy of GPS:Constellation Modernization and U.S. Diplomatic Activities” Mr. Ray Clore*(US Department of State, U.S.A.)*
16:50~17:10 “GALILEO Program Stauts Update” Dr. Guenter W. Hein*(Head of Galileo Operations and Evolution Department, Germany)*
17:10~17:30 “COMPASS/BeiDou Navigation Satellite System Status Updates” Prof. Xingqun ZHAN*(Shanghai Jiao Tong University, China)*
17:30~17:50 “Status of the QZSS” Mr. Satoshi Kogure*(Japan Aerospace Exploration Agengy, Japan)*

16:30~17:50	Tutorial Ⅰ, Ⅱ Chair : Dr. Deuk Jae Cho(KORDI, Korea)
16:30~17:10 "Introduction to GPS for novice" Dr. Jung Hyun Jo*(KASI, Korea)*	
17:10~17:50 "GPS Signal structure and positioning algorithm" Dr. Jeong Won Kim*(KARI, Korea)*	
18:00~19:30	Welcome Reception(Location : Ocean View)

November 5(Thu)

09:00~ 10:20	**TA1 : GNSS Receiver Technology** **Chair : Prof. Gyu-In Jee***(Konkuk Univ., Korea)* **Prof. Akio Yasuda***(Tokyo Univ., Japan)*	**202A**
09:00~ 09:20	**An FPGA-based GPS Reflectometry Receiver Development** Yohei Kawasaki, Takuji Ebinuma and Akio Yasuda *(Tokyo University, Japan)*	
09:20~ 09:40	**Real-time Carrier Generation for a GNSS Software Receiver** Grégoire Waelchli[1], Marcel Baracchi-Frei[2], C. Botteron[1] and P.-A. Farine[1] *([1]Ecole Polytechnique Fédérale de Lausanne, [2]University of Neuchatel, Switzerland)*	
09:40~ 10:00	**Software Validation and Verification of a GPS Receiver** Deok Won Lim[1], Sung Lyong Cho[1], Chansik Park[2], Dong-Hwan Hwang[1] and Sang Jeong Lee[1]* *([1] Chungnam National University, [2] Chungbuk National University, Korea)*	
10:00~ 10:20	**ADC and Quantization Effects in a GMSK-based GNSS Receiver Implementation** Jong-Hoon Won[1]*, Bernd Eissfeller[1], Jean-Jacques Floch[2], Andreas Schmitz-Peiffer[2] *([1]University FAF Munich, [2]EADS-Astrium, Germany)*	
09:00~ 10:20	**TB1: Indoor Navigation and Land Application** **Chair : Dr. Wan Sik Choi***(ETRI, Korea)* **Dr. Dinesh Manandhar***(GNSS Technologies, Japan)*	**202B**
09:00~ 09:20	**Designing the Vehicular Management Information Systems based on Stand-alone GPS Positioning Data** C. C. Chang*, C. L. Chiang, M. J. Wu, and K. H. Lai*(Ching-Yun University, Taiwan)*	
09:20~ 09:40	**Using GPS and GIS in Greater One-horned Rhinoceros Population Assessment and Monitoring in Nepal** Nawa Raj Chapagain[1] and Buddi Sagar Poudel[2] *([1]National Trust for Nature Conservation, [2]National Parks and Wildlife Conservation, Nepal)*	
09:40~ 10:00	**Adaptive Covariance Estimation for Seamless Positioning using Integration of A-GNSS and IEEE 802.15.4a Chirp Spread Spectrum** Yong-Soo Kim[1], Jung-yun Yeu[1], Gyu-In Jee[1], Wan Sik Choi[2] *([1]Konkuk University, [2] Electronics and Telecommunications Research Institute, Korea)*	
10:00~ 10:20	**Design and implementation of an integrated dynamic localization system based on 802.15.4 wireless sensor network** Bing Wei and Wu Chen *(The Hong Kong Polytechnic University, Hong Kong)*	
09:00~ 10:20	**TC1: Atmosphere Effect (Ionosphere I)** **Chair : Dr. Jong-Kyun Jung***(KASI, Korea),* **Prof. Wu Chen***(Hongkong Polytech Univ, Hong Kong.)*	**203**
09:00~ 09:20	**A Study on Regional Ionosphere Modeling for e-GPS System** Lao-Sheng Lin[1]* and Hsiang-Chung Wu[2] *([1]National Chengchi University, [2]Tainan County Government, Taiwan)*	

09:20~ 09:40	**Ionospheric Tomography Based on A Small GPS Network in Hong Kong Area** Shengyue Ji, Wu Chen, Xiaoli Ding, and Yongqi Chen *(The Hong Kong Polytechnic University, China)*	
09:40~ 10:00	**Comparison of Ionospheric Delays between 3D Ray-Tracing and GPS-TEC Measurements** Siti Sarah Nik Zulkifli[1]*, Mardina Abdullah[1], Ahmad Faizal Mohd Zain[2], and Mahamod Ismail[1] *([1]Universiti Kebangsaan Malaysia, [2]Universiti Tun Hussein Onn Malaysia, Malaysia)*	
09:00~ 10:20	**TD1: GNSS Augmentation and Applications** **Chair : Prof. Jiyun Lee***(KAIST, Korea)*	**201A**
09:00~ 09:20	**Implementation of the Wide Area Differential GPS Master Station Algorithms in Taipei Flight Information Region** Shih-Chieh Lu and Shau-Shiun Jan**(National Cheng Kung University, Taiwan)*	
09:20~ 09:40	**An Operation Test of the GPS Receiver System for Satellite Launch Vehicles using an Aircraft** Byung-Moon Kwon*, Ji-Hyeon Moon, Yong-Sul Shin, and Hyung-Don Choi *(Korea Aerospace Research Institute, Korea)*	
09:40~ 10:00	**Surveillance of vehicles in Airside of an Airport using DGPS Technology** Jae-Hyun Han and Yo-Sik Kim*(The Korea Transport Institute, Korea)*	
10:00~ 10:20	**CNS/ATM Research and Development Plan in Korea** Jae-Hyun Han and Chang-Hwan Kim *(The Korea Transport Institute, Korea)*	
09:00~ 10:20	**Tutorial Ⅲ,Ⅳ** **Chair : Dr. Jeong-Ho Cho(KARI, Korea)**	**201B**
09:00~ 09:40	**GNSS Augmentation system for maritime** Sang Hyun Park*(KORDI, Korea)*	
09:40~ 10:20	**GNSS Augmentation system for aviation** Eunsung Lee*(KARI, Kroea)*	

10:40~ 12:00	**TA2 : GNSS Signal Processing (I)** **Chair : Dr. Sanguk Lee***(ETRI, Korea)*, **Prof. Jinling Wang***(UNSW, Australia)*	**202A**
10:40~ 11:00	**An Assisted GPS Software Receiver for processing Weak Signals** Wu Chen[1], Jianfeng Miao[1,2], Yongrong Sun[2], and Jianye Liu[2] *([1]Hong Kong Polytechnic University,[2] Nanjing University, China)*	
11:00~ 11:20	**Fraction Sample Effect Compensation Technique for Acquisition of Weak C/A Code Modulated GPS Signals** Uzair Ahmad and Wan-Sik Choi *(Electronics and Telecommunications Research Institute, Korea)*	
11:20~ 11:40	**Test of Susceptibility to Spoofing** Sung-Hyuck Im and Gyu-In Jee* *(Konkuk University, Korea)*	
11:40~ 12:00	**An Effective Multipath Mitigation Method Under Dominant Multipath Condition** Yan Zhang and Nobuaki Kubo*(Tokyo University, Japan)*	
10:40~ 11:40	**TB2: Indoor Navigation and Pseudolite Applications** **Chair : Dr. Haeyoung Jun***(Samsung Electronics Co., Ltd, Korea.)*, **Prof. Chuanrun Zhai***(Shanghai Jiao Tong Univ., China)*	**202B**
10:40~ 11:00	**Research of Integer Ambiguity Resolution for the Pseudolite-based Indoor Navigation System** Xiaoguang Wan, Liduan. Wang, Xingqun Zhan, and Chuanrun Zhai *(Shanghai Jiao Tong University, China)*	
11:00~ 11:20	**Solutions for Implementing Pseudolite Indoor Navigation System by Utilizing New Pulsing Scheme and RFID-based Ambiguity Searching Method** Taikjin Lee*, Chongwon Kim, Sanghoon Jeon, Ghangho Kim, Hyungmin So, and Changdon Kee *(Seoul National University, Korea)*	

11:20~ 11:40	**The position-domain GPS/WLAN hybrid position in mobile terminal** Young-Su Cho, Byung-Doo Kim, Sung-Jo Yun, Myung-In Jee, and Wan-Sik Choi *(Electronics and Telecommunications Research Institute, Korea)*	
10:40~ 12:00	**TC2: Atmosphere Effect (Ionosphere II)** **Chair : Dr. Jong-Kyun Jung***(KASI, Korea),* **Prof. Lao-Sheng Lin***(National Chengchi Univ., Taiwan)*	**203**
10:40~ 11:00	**GPS-Derived Local TEC Mapping over Malaysia during Solar Maximum of Sunspot Cycle 24** Khairul A. Abdullah, Tajul A. Musa, and Shien Kwun Leong *(Universiti Teknologi Malaysia, Malaysia)*	
11:00~ 11:20	**A Study on Predicting Ionospheric Delays Using Artificial Neural Network** Yen-Ting Lee and Lao-Sheng Lin *(National Chengchi University, Taiwan)*	
11:20~ 11:40	**Variations of TEC over Different Regions during Ionospheric Storms** Mardina Abdullah, Siti Aminah Bahari*, and Baharudin Yatim *(Universiti Kebangsaan Malaysia, Malaysia)*	
11:40~ 12:00	**Modeling the Bias of Abel Inversion Algorithm for Ionospheric Vertical Electron Density (VED) Profile Retrieve** Gary Ouyang and Jinling Wang*(University of New South Wales, Australia)*	
10:40~ 12:00	**TD2: Integrity Monitoring** **Chair : Prof. Young Jae Lee***(Konkuk Univ., Korea),* **Prof. Shau-Shiun Jan***(National Cheng Kung Univ., Taiwan)*	**201A**
10:40~ 11:00	**Development and Implementation of RAIM to Support the New ATM System** Shou-Ju Yeh and Shau-Shiun Jan* *(National Cheng Kung University, Taiwan)*	
11:00~ 11:20	**Performance Analysis of UDRE Estimation for Maritime Differential GPS** Sang Hyun Park*, Ki Yeol Seo, Duek Jae Cho, and Sang-Hyun Suh *(Korea Ocean Research and Development Institute, Korea)*	
11:20~ 11:40	**Detection, Identification And Mitigation of Outliers by Solving Correct Observation Equations** Hiroshi Isshiki *(*University of Ulsan, *Korea)*	
11:40~ 12:00	**Analysis on the Limitation of Integrity Monitoring Function for Maritime DGPS** Ki-Yeol Seo*, Sang-Hyun Park, Ho-Cheol Jeong, and Sang-Hyun Suh *(Korea Ocean Research & Development Institute, Korea)*	
10:40~ 12:00	**Tutorial Ⅲ,Ⅳ** **Chair : Dr. Sang Heon Oh***(Hanyang Navicom, Korea)*	**201B**
10:40~ 11:20	**GPS/INS integrated navigation system** Hyung Keun Lee*(Korea Aerospace Univ., Korea)*	
11:20~ 12:00	**GNSS receiver** Heung Seok Seo*(Hanyang Navicom Co.,Ltd., Korea)*	
12:00~13:30	**Lunch(Location : Delizia)**	

13:30~ 14:50	**TA3 : GNSS Signal Processing (II)** **Chair : Prof. Hyung Keun Lee***(Korea Aerospace Univ., Korea),* **Dr. Nobuaki Kubo***(Tokyo University of Marine Science and Technology, Japan)*	**202A**
13:30~ 13:50	**An Ambiguity-free BOC(n,n) Signal Tracking Technique** Tsai-Ling Kao and Jyh-Ching Juang**(National Cheng Kung University, Taiwan)*	
13:50~ 14:10	**GPS Receiver Code Tracking Loop Designs Using the Unscented Kalman Filtering Approach** Dah-Jing Jwo* and Yi-Jen Chang *(National Taiwan Ocean University, Taiwan)*	
14:10~ 14:30	**Implementation of a Vector Tracking Loop Receiver for Pseudolite Navigation System** Hyoungmin So[1]*, Taikjin Lee[2], Sanghoon Jeon[2], Chongwon Kim[2], and Changdon Kee[2]	

	([1]SUNWAVETEC Co., Ltd., [2]Seoul National University, Japan)	
14:30~ 14:50	**Interference mitigation technique using the frequency-domain Capon beam-former** Geon Woo Lee, Eun Sup Sim, and Moon Beom Heo (*Korea Aerospace Research Institute, Korea)*	
13:30~ 15:10	**TB3: Timing Applications** **Chair : Mr. Sung-hoon Yang***(KRISS, Korea),* **Dr. Toshiaki Iwata***(National Institute of Advanced Industrial Science and Technology, Japan)*	**202B**
13:30~ 13:50	**COMPASS/GPS Dual Mode Timing for CDMA System of China** Shan QingXiao, Yang Jun, Chen Jian Yun, and Tang Hong *(National University of Defense Technology, China)*	
13:50~ 14:10	**RESSOX Experiments Using Multiple Navigation Signals as Feedback Control** Toshiaki Iwata[1]*, Takashi Matsuzawa[1], Kumiko Machita[1], and Akiyoshi Abei[2] *([1]Advanced Industrial Science and Technology, [2]Cosmo Research Corporation, Japan)*	
14:10~ 14:30	**The development of software T&F common view receivers for GNSS satellites** Yuki Ito *, Takuya Shinno, Shouta Ishikawa, Ryuei Yamada, and Fujinobu Takahashi, *(Yokohama National University, Japan)*	
14:30~ 14:50	**Time and Frequency Transfer using Loran-C Signals** Young-Kyu Lee[1]*, Changbok Lee[1], Sung-Hoon Yang[1], and Young-Jae Kim[2] *([1]KRISS, [2]Chungbuk National University, Korea)*	
14:50~ 15:10	**Time Synchronization of Loran Station using TWSTFT** Changbok Lee, Sung-hoon Yang, and Young Kyu Lee *(Korea Research Institute of Standards and Science, Korea)*	
13:30~ 15:10	**TC3: Atmosphere Effect (Troposphere)** **Chair : Prof. Tae-Suk Bae***(Sejong Univ., Korea),* **Prof. Chiang Kai-Wei***(National Cheng Kung Univ., Taiwan)*	**203**
13:30~ 13:50	**Near-Real-Time Determination of Three-Dimensional Water Vapor Distribution in the Atmosphere Using GPS** Jihyun Ha* and Kwan-Dong Park *(Inha University, Korea)*	
13:50~ 14:10	**Real Time Computation Of Precipitable Water Vapour Using Global Positioning System - Data Quality Improvement** Reshma Raskar-Phule*(Sardar Patel College of Engineering, India)*	
14:10~ 14:30	**Generation of Meteorological Variables by Artificial Neural Network to Correct the Tropospheric Delay on the GNSS Signal** Sung-Wook Jung[1]*, Jeongho Baek[1,2], Sungki Cho[1], and Jung-Ho Cho[1] *([1] Korea Astronomy Space Science Institute, [2]University of Science and Technology, Korea)*	
14:30~ 14:50	**Estimation of Absolute Precipitable Water Using the Precise Point Positioning Technique** Hsiao-Wen Wu*, Ming Yang, and Kai-Wei Chiang *(National Cheng Kung University, Taiwan*	
14:50~ 15:10	**Using GPS Network PPP as Meteorological Sensors in Taiwan: Case Studies of Plum rains and Typhoon Sinlaku** Peng Wei-Chih, Yeh Yen-Hua, and Chiang Kai-Wei *(National Cheng Kung University, Taiwan)*	
13:30~ 15:10	**TD3(Domestic): Indoor Navigatoin** **Chair : Dr. Seong Yun Cho***(ETRI, Korea)*	**201A**
13:30~ 13:50	**IR-UWB based Friends Searching Method in the Emergency Environments** Seong Yun Cho* and Young Woo Choi *(Electronics and Telecommunications Research Institute, Korea)*	
13:50~ 14:10	**Performance Analysis of The IR-UWB Location System** Chan-Bock Song and Tae-Kyung Sung *(Chung Nam National University, Korea)*	
14:10~	**A Synchronous Pseudollite System by Single Clock**	

14:30	Sanguk Lee, Jae Eun Lee, Cheon Sig Sin, and Jae Hoon Kim *(Electronics and Telecommunications Research Institute, Korea)*	
13:30~ 14:50	**TE3(Domestic): Telematics/LBS** **Chair : Dr. Jong-Hoon Won***(University Federal Armed Forces Munich, Germany)*	**201B**
13:30~ 13:50	**Performance Analysis of the GNSS based Autonomous Ground Vehicle for Pointing Position** Wooyong Kang*, Eunsung Lee, Jeongho Cho, Moonbeom Heo, and Giwook Nam *(Korea Aerospace Research Institute, Korea)*	
13:50~ 14:10	**Design of High Accuracy GPS/DR Integrated Navigation System for Lane Departure Warning** Jeong Won Kim, Soon-Chul Park, Moon Beom Heo, Gi Wook Nam, and Eun-Sup Sim *(Korea Aerospace Research Institute, Korea)*	
14:10~ 14:30	**Readers Arrangement and TDOA DOP of Position Tracking System for Logistic Vehicles** Hee Won Kang , Deok Won Lim, Dong-Hwan Hwang and Sang Jeong Lee *(Chungnam National University, Korea)*	
14:30~ 14:50	**Implementation of WiBro Simulator for Geo-location** Ji-Won Park and Tae-Kyung Sung**(Chungnam National University, Korea)*	
15:10~16:10	**Poster Session (1) & Coffee Break**	

15:10- 16:10	**Poster Ⅰ** **Chiar : Prof. Tae-Kyung Sung***(Chungnam National Univ., Korea)* **Prof. Dong-Hui Yu***(Catholic University of Pusan, Korea)*	**2F Lobby**
PS01	**Suppression of Non-stationary Sinusoidal GNSS Interference Using Frequency Domain K-median Excision Filtering** Jun-O Kim[1], Jong-Chul Cho[2], and Ki Won Song[1] *([1]Agency for Defense Development, [2]Hanyang Navicom Co., Ltd, Korea)*	
PS02	**Development of a Dual-mode GPS/Galileo Receiver Platform** Chih-Herng Wu, Yu-Hsuan Chen, Tsai-Ling Kao, and Jyh-Ching Juang *(National Cheng Kung University, Taiwan)*	
PS03	**An efficient protocol for friend identification and localization in IR-UWB** Young Woo Choi and Seong Yun Cho *(Convergence Research Department, Electronics and Telecommunications Research Institute, Korea)*	
PS04	**Evaluation of GPS Time Transfer Precision with IGS Ultra Rapid Products and KARAT** Tadahiro Gotoh[1], Thomas Hobiger[1], and Ryuichi Ichikawa[2] *([1]National Institute of Information and Communications Technology, [2]Kashima Space Research Center, NICT, Japan)*	
PS05	**Design And Implementation Of Trellis Coded Modulation Scheme To Improve The BER Of GPS Signal** Rajkumar Goswami[1], G Sasi Bhushana Rao[1], Kancharana Harini[2], Vinod Naik Bhukya[1], and Ch.Usha Kumari[1] *([1]Andhra University, [2]Indian Institute of Information Technology Hyderabad, India)*	
PS06	**Investigation of the Data Quality at Dokdo Integrity Monitoring Station** In-Kwan Park, Sungki Cho, Byung-Kyu Choi, Mansoo Choi, and Jung-Ho Cho *(Korea Astronomy and Space Science Institute, Korea)*	
PS07	**Fault Detection of TDOA Measurements using Hypothesis Test** Byung-Doo Kim, Young-Su Cho, Sung-Jo Yun, Myung-In Jee, and Wan-Sik Choi *(Electronics and Telecommunications Research Institute, Korea)*	
PS08	**Mobile Transaction System for Location-Based Services by Using a Wireless Card Reader Module with Integrated GPS** Ick Chang Choi, Young Cheol Kim, and Hyun Deok Kim *(Kyungpook National University, Korea)*	
PS09	**Location-Based Service Employing Push-to-Talk Service** Sang Tae Kim, Gi Min Kim, Hong Kyun Im, and Hyun Deok Kim	

	(Kyungpook National University, Korea)
PS10	**Analysis for the GNSS Tracking plan by Future Korean SLR System** Jung Hyun Jo*(Korea Astronomy and Space Science Institute, Korea)*
PS11	**Design of a Reference System for Urban Facility Management based on Geographic Information System** JaeJun Yoo and KyoungOk Kim *(Electronics and Telecommunications Research Institute, Korea)*
DP01	**SOM based Integrity Monitoring in the Simultaneous Multiple Satellites Failure** Jeongho Cho, Eunsung Lee, Wooyoung Kang, and Moon Beom Heo (Korea Aerospace Research Institute, *Korea)*
DP02	**Multipath Interference Cancellation Technique for High Precision Tracking in GNSS Receiver** Byeong-Chan Jo[1], Sungmin Park[2], Hyunsu Hong[2], Jinwon Kim[2] and Sunwoo Kim[1] *([1]Hanyang University, [2]Samsung Electronics, Korea)*
DP03	**Analysis of the Real-Time and Post-processed Data of KSLV-I GPS Receiver System on the Flight Test using an Aircraft** Ji-Hyeon Moon*, Byung-Moon Kwon, Yong-Sul Shin, and Hyung-Don Choi *(Korea Aerospace Research Institute, Korea)*
DP04	**Hybrid RSSI/TOA Method for Tracking Mobility** Dong-Seon Kim and Sunwoo Kim(*Hanyang University, Korea)*

16:10~ 17:50	**TA4 : System and Performance Analysis** **Chair : Dr. Jeong-Ho Cho** ***(****KARI, Korea)*** **Mr. Satoshi Kogure***(JAXA, Japan)*	**202A**
16:10~ 16:30	**GPS/Galileo/QZSS Radio Frequency Compatibility Analysis in Asia-Pacific Region** Wei Liu[1]*, Chuan Run Zhai[1], Xing Qun Zhan[1], Yan Hua Zhang[1], and Chun Ming Fan[2] *([1]Shanghai Jiao Tong University, [2]Tokyo University, China)*	
16:30~ 16:50	**Performance Analysis of Precise Positioning for Combined GPS and GLONASS in Urban Area** Byung-Hyun Lee[1], Seung-Hwan Yoo[1], Gyu-In Jee[1], Jun-O Kim[2], and Joong-Hyup Ko[3] *([1]Konkuk University, [2]Ucomm Technology Co., Ltd,[3]Kyung-Bong Co., Ltd., Korea)*	
16:50~ 17:10	**Effect of Quasi Zenith Satellite (QZS) on GPS Positioning** Tomoji Takasu, Takuji Ebinuma, and Akio Yasuda*(Tokyo University, Japan)*	
17:10~ 17:30	**An Efficient Approach for Developing an Advanced Regional Navigation Satellite System** Maria Dolores Laínez Samper, Miguel M. Romay Merino, and Ignacio Alcantarilla Medina *(GMV, Spain))*	
16:10~ 17:50	**TB4: Survey/Mapping/GIS** **Chair : Prof. Kwan-Dong Park***(Inha Univ., Korea),* **Prof. Gethin W. Roberts***(The University of Nottingham, United Kingdom)*	**202B**
16:10~ 16:30	**The Performance Analysis of LC and TC Low Cost MEMS IMU/GPS POS System for Van Based MMS Applications** Yun-Wen Huang, Meng-Lun Tsai*, and Kai-Wei Chiang *(National Cheng Kung University, Taiwan)*	
16:30~ 16:50	**Feasibility of integrated Locata and GNSS for Engineering Work Application** Lukasz K Bonenberg, GethinW. Roberts*, Craig M. Hancock*, Oluropo Ogundipe*, and Jae Kang Lee* *(The University of Nottingham, United Kingdom)*	
16:50~ 17:10	**A study on the suitability of Locata operation for Bridge Deformation Monitoring** Jae-Kang Lee, Gethin W. Roberts, Oqundipe Oluropo, Craig. M. Hancock Craig, and Lukasz Bonenberg *(The University of Nottingham, United Kingdom)*	
17:10~ 17:30	**Study on Vertical Alignment Maintenance Technique using GNSS in Skyscraper** Eunchurn Park[1],Yu-Seung Kim[1], Joong-Yub Lee[1], Jun-Sung Choi[1]*, Yeon-Back Jung[2], and Won-Kyun Seok[2] , Kwang-Soo Jung[2], Soon-Jeon Park[2], Joo-Ho Lee[2] *([1]Korea Maintenance Co., Ltd., [2]Lotte Engineering & Construction, Korea)*	

17:30~ 17:50	**The Investigation of Calibration Methodology for a Low Cost Land Vehicle Mobile Mapping System** Yu-Hua Li*, Kai-Wei Chiang, and Jiann-Yeou Rau*(National Cheng Kung University, Taiwan)*	
16:10~ 17:50	**TC4: POD (Precise Orbit Determination)** **Chair : Dr. Sungki Cho***(KASI, Korea)*, **Prof. Marek Ziebart***(UCL, UK)*	**203**
16:10~ 16:30	**GNSS-Based Orbit Determination for Highly Elliptical Orbit Satellites** Li Qiao[1,2]*, Samsung Lim[1], Chris Rizos[1], and Jianye Liu[2] *([1]University of New South Wales, [2]Nanjing University of Aeronautics and Astronautics, Australia)*	
16:30~ 16:50	**Analysis of Precision GPS Orbits Based on the Dynamic Approach** Tae-Suk Bae[1] and Jay Hyoun Kwon[2]*([1]Sejong University, [2] The University of Seoul ,Korea)*	
16:50~ 17:10	**KOMPSAT-2 Precise Orbit Determination Using GPS Single Frequency Data** Dae-Won Chung[1], Ok-Chul Jung[1], Jong-Yeoun Choi[1], and Sang-Jeong Lee[2]* *([1] Korea Aerospace Research Institute,[2] Chungnam National University, Korea)*	
17:10~ 17:30	**High Precision Radiation Force Modelling in GNSS: Orbit Prediction, Orbit Determination and the GPS-SLR Bias** Marek Ziebart[1], Ant Sibthorpe[2], and Peter Stacey[1] *([1] University College London, [2] NASA Jet Propulsion Laboratory, United Kingdom)*	
16:10~ 17:50	**TD4(Domestic): GNSS Receiver/SDR** **Chair : Dr. Taikjin Lee***(Seoul National Univ., Korea)*	**201A**
16:10~ 16:30	**The Development of Signal Processing Algorithms for GPS/Galileo Signals** Jin-Seok Kim, Sung-Wook Moon, Se-Hwan Kim, and Young-Baek Kim *(Hanyang Navicom Co., Ltd., Korea)*	
16:30~ 16:50	**Performance Evaluation of a Loran Station** Young-Kyu Lee[1]*, Chang-Bok Lee[1], Sung-Hoon Yang[1], and Young-Jae Kim[2] *([1] KRISS,[2] Chungbuk National University, Korea)*	
16:50~ 17:10	**Enhancement of Positioning Accuracy for Weak GPS Signals** Ji-Hee Park and Tae-Kyung Sung**(Chungnam National University, Korea)*	
17:10~ 17:30	**The Development of Multi-Frequency (GPS L1/Galileo E1/E5a) GNSS Software Receiving Platform in Post-Processing environment** Sang-Hoon Jeon[1]*, Hyoung-Min So[1], Taek-Jin Lee[1], Ghang-Ho Kim[1], Seung-Il Jeon[1], Jong-won Kim[1], Chang-Don Kee[1], Young-Su Cho[2]*, Wan-Sik Choi[2], Sang-Uk Lee[2], and Jae-Hoon Kim[2] *([1]Seoul National University, [2] Electronics and Telecommunications Research Institute, Korea)*	
17:30~ 17:50	**The Development of Component-based GNSS Software Receiver** Tae Hee Kim, Jae Eun Lee, Sanguk Lee, and Jae Hoon Kim *(Electronics and Telecommunications Research Institute, Korea)*	
16:10~ 17:50	**TE4(Domestic): Anti-jamming** **Chair : Dr. Sungmin Park***(Samsung Electronics Co., Ltd., Korea)*	**201B**
16:10~ 16:30	**Squaring-loss Considering Signal Interference in Multiple Access Systems** Seung-Hun Song* and Tae-Kyung Sung*(Chungnam National University, Korea)*	
16:30~ 16:50	**Design of Interference Location System Using Multiple GNSS Receivers** Byeong-Gyun Kim[1]*, Young Bum Park[2] and Se Hwan Kim[1] *([1]Hanyang Navicom Co., Ltd., [2]Agency for Defense Development, Korea)*	
16:50~ 17:10	**The design and analysis of CRPA STAP algorithm for GPS anti-jamming** Kihoon Lee*, Seung Kwan Ahn, and Ki Won Song *(Agency for Defense Development, Korea)*	
18:00~20:00	**Banquet(Location : Halla Hall)**	

November 6 (Fri)

09:00~ 10:20	**FA1 : Inertial System and Integration (I)** **Chair : Prof. Hyungkyu Lee** *(Changwon National Univ., Korea),* **Prof. Dah-Jing Jwo***(National Taiwan Ocean Univ., Taiwan)*	**202A**
09:00~ 09:20	**Compensation Method on the Installation Errors of the IMU Based on Linear Accelerometers** Wu Junwei and Jia Bo*(Harbin Engineering University, China)*	
09:20~ 09:40	**Application of Marginalized Particle Filter in INS Initial Alignment** Jian Xiong, Jianye Liu, Jizhou Lai, and Zhi Xiong *(Nanjing University of Aeronautics and Astronautics, China)*	
09:40~ 10:00	**High Fidelity Simulation Analysis of EKF Based Tightly Coupled GPS/INS** Ping Ye*, Chuanrun Zhai, Xingqun Zhan, and Yanhua Zhang *(Shanghai Jiao Tong University, China)*	
10:00~ 10:20	**Adaptive Interacting Multiple Model Unscented Kalman Filtering for GPS/INS Navigation** Mu-Yen Chen, Dah-Jing Jwo*, and Mong-Shu Lee *(National Taiwan Ocean University, Taiwan)*	
09:00~ 10:20	**FB1: Space Geodesy / Earth Science (I)** **Chair : Dr. Jong-Uk Park***(KASI, Korea),*	**202B**
09:00~ 09:20	**Improved Performance of Long Baseline GPS/GLONASS RTK** Hideki Yamada, Tomoji Takasu, Nobuaki Kubo, and Akio Yasuda *(Tokyo University of Marine Science and Technology, Japan)*	
09:20~ 09:40	**A Linearized Approach for Ambiguity Resolution Applied to the GNSS Compass Problem: Experimental Results** G. Giorgi[1]*, P.J.G. Teunissen[1,2], P.J. Buist[1], and L. Huisman[2] *([1] Delft University of Technology,[2] Curtin University of Technology, Netherlands)*	
09:40~ 10:00	**Analysis of the Vertical Crustal Deformation around the Korean Peninsula using Permanent GPS Stations and Tide Gauges** Kyeong Hui Kim*, and Kwan-Dong Park*(Inha University, Korea)*	
10:00~ 10:20	**Particle Filtering for Denoising in Deformation Data Analysis** Nanshan Zheng[1, 2], Jingxiang Gao[1], and Shubi Zhang[1] *([1]China University of Mining and Technology, [2] Kyoto University, Japan)*	
09:00~ 10:20	**FC1: Hybrid Receiver Technology** **Chair : Dr. Young Baek Kim***(Hanyang Navicom Co., Ltd, Korea),* **Prof. Jyh-Ching Juang***(National Cheng Kung Univ., Taiwan)*	**203**
09:00~ 09:20	**Development of the low-cost RTK-GPS receiver with an open source program package RTKLIB** Tomoji Takasu and Akio Yasuda**(Tokyo University of Marine Science and Technology, Japan)*	
09:20~ 09:40	**Precise Positioning Algorithm for Low-Cost Highly-Dynamic GPS receivers toward Ubiquitous Transportation** Hee Sung Kim and Hyung Keun Lee**(Korea Aerospace University,Korea)*	
09:40~ 10:00	**Software-Based Loran-C Signal Processing Using Half Cycle Peak Ratio** Jun-Hyuck Im[1], Sung-Hyuck Im[1], Woo-Hyun Kim[2], Ha-Yeong Song [1], and Gyu-In Jee[1]* *([1] Konkuk University, [2] Seoul National University, Korea)*	
10:00~ 10:20	**Test Requirements When Developing or Assessing Multi-GNSS Receivers** Andrew Addy and Jianxin Li*(Spirent Communications, United Kingdom)*	
09:00~ 10:20	**FD1(Domestic): DGNSS** **Chair : Dr. Byungwoon Park***(Seoul National Univ., Korea)*	**201A**
09:00~ 09:20	**The Performance Analysis of SV. Clock Error Interpolation Algorithm for Precise Point Positioning** Ho Cheol Jeong*, Sang Hyun Park, and Duek Jae Cho *(Korea Ocean Research and Development Institute, Korea)*	
09:20~	**Korean Regional Area Augmentation System (RAAS) for Re-capitalizing the NDGNSS infra**	

09:40	**structure** Ho Yun[1], Byungwoon Park[1], Inmo Jang[1], Junesol Song[1], Changdon Kee[1], Deuk-Jae Cho[2], Sang-Hyun Park[2], and Sang-Hyun Suh[2] *([1] Seoul National University,[2] Korea Ocean Research & Development Institute, Korea)*	
09:40~ 10:00	**Adaptive DGNSS Correction Generation Algorithm for High Altitude User** Ho Yun[1], Byungwoon Park[1], Inmo Jang[1], Junesol Song[1], Changdon Kee[1], and Kihoon Lee[2] *([1] Seoul National University, [2] Agency for Defense Development, Korea)*	
10:00~ 10:20	**A Precise Time Transfer Scheme Using the Maritime DGPS** Dong jin Shin[1], Sang Wook Hwang[1], Heon Ho Choi[1], Young Hoon Han[1] ,Sung-Hun Yang[2], Chansik Park[3], and Sang Jeong Lee[1]* *([1] Chungnam National University, [2] orea Research Institute of Standards and Science, [3] Chungbuk National University, Korea)*	
09:00~ 10:20	**FE1(Domestic): GNSS Applications (1)** **Chair : Dr. Jeong Won Kim***(Korea Aerospace Research Institute., Korea)*	**201B**
09:00~ 09:20	**Operation of the GPS Receiver System for KSLV-I on the Launch Pad at Naro Space Center** Byung-Moon Kwon*, Ji-Hyeon Moon, Yong-Sul Shin, and Hyung-Don Choi *(Korea Aerospace Research Institute, Korea)*	
09:20~ 09:40	**Fault Detection Method of the Inertial Sensors in the Satellite Using Principal Component Analysis** Won Hee Lee, Jun Kyu Lim, and Chan Gook Park* *(Seoul National University, Korea)*	
09:40~ 10:00	**Evaluation of Flight and Landing GPS Data Based on Position Domain Double-Differencing Hatch Filter** Hee Sung Kim[1], Young Jun Lee[1], Je-Young Lee[1] ,Jung Min Joo[2], Moon Beom Heo[2], and Hyung Keun Lee[1]* *([1]Korea Aerospace University, [2] Korea Aerospace Research Institute, Korea)*	
10:00~10:40	**Coffee Break**	

10:40~ 12:00	**FA2 : Inertial System and Integration (II)** **Chair : Prof. Dong-Hwang Hwang***(Chungnam National Univ., Korea)* **Prof. Jia Bo***(Harbin Engineering Univ., China)*	**202A**
10:40~ 11:00	**A vehicle Navigation System with GPS and Low-cost Inertial Sensors** Shiyu Zhang, Wu Chen, Zhilin Li, and William Lam*(Hong Kong Polytechnic University, China)*	
11:00~ 11:20	**Improving Performance of a Pedestrian Navigation System using a Robust Kalman Filter** Rui Xu[1,2], Wu Chen[1], Jianye Liu[1], Zhilin Li[1], and Yongrong Sun[2] *([1] Hong Kong Polytechnic University, [2] anjing University of Astronautics and Aeronautics, China)*	
11:20~ 11:40	**The Development of Self-Growing Neural Network Embedded Attitude Determination Scheme for a MEMS IMU/GPS Integrated System** Hsiu-Wen Chang, Kuan-Yun Chen*, and Kai-Wei Chiang *(National Cheng-Kung University, Taiwan)*	
11:40~ 12:00	**Design and implementation of an INS-aided tightly integrated GNSS/SINS navigation System** Rongbing Li, Jianye Liu, Li Wen, and Yongrong Sun *(Nanjing University of Aeronautics and Astronautics, China)*	
10:40~ 12:00	**FB2: Space Geodesy / Earth Science (II)** **Chair : Dr. Jung Hyun Jo***(KASI, Korea),* **Dr. Sungki Cho***(KASI, Korea)*	**202B**
10:40~ 11:00	**Establishment of GPS Monitoring system over the coastal zone in China** Yanxiong Liu*, Xinhua Zhou, Yikai Feng, and Huayi Zhang*(SOA, China)*	
11:00~ 11:20	**Detection of Ocean Tide Loading Constituents using GPS** Jihye Won*, Kwan-Dong Park*(Inha University, Korea)*	

11:20~ 11:40	**Analysis of Reflected GPS Signal to Develop Algorithms for Land and Sea Area Discrimination** Daeyun Shin*, Manadhar Dinesh, and Ryosuke Shibasaki *(The University of Tokyo, Japan)*	
10:40~ 12:00	**FC2: Enhanced Loran** **Chair : Captain Edwin Thiedeman***(*U.S. Coast Guard, *U.S.A.)*, **Mr. Sung-hoon Yang***(KRISS, Korea)*	**203**
10:40~ 11:00	**Position Determination in Loran-C Software Receiver Using Unscented Kalman Filter** Woo-Hyun Kim[1]*, Jun-Hyuck Im2, Gyu-In Jee[2], and Jang-Gyu Lee[1] *(1 Seoul National University, 2 Konkuk University, Korea)*	
11:00~ 11:20	**Comparison of Predicted and Measured ASF in Korea** Mi Young Shin[1], Sang Wook Hwang[1], Dong-Hui Yu[2], Chansik Park[3], Sung-Hoon Yang[4], and Sang Jeong Lee[1]* *([1] Chungnam National University, [2] Catholic University of Pusan, [3]Chungbuk National University,Korea, [4] Korea Research Institute of Standards and Science)*	
11:20~ 11:40	**ASF Validation Technique of Loran Signal** Sung-hoon Yang[1], Changbok Lee[1]*, Young Kyu Lee[1]**, and Sang Jeong Lee[2] *([1]Korea Research Institute of Standards and Science, [2]Chungnam National University, Korea)*	
11:40~ 12:00	**Improved ASF Correction Methods for eLoran in a Mountainous Area** Sang Wook Hwang[1], Mi Young Shin[1], Dong-Hui Yu[2], Chansik Park[3], Chang-Bok Lee[4] and Sang Jeong Lee[1]* *([1] Chungnam National University, [2] Catholic University of Pusan,[3] Chungbuk National University,[4] Korea Research Institute of Standards and Science, Korea)*	
10:40~ 12:00	**FD2(Domestic): Algorithms** **Chair : Prof. Gyu-In Jee** *(Konkuk Univ., Korea)*	**201A**
10:40~ 11:00	**Design of ASF Measurements System in the Field** Sung-hoon Yang[1], Chang Bok Lee [1]*, Young Kyu Lee [1]**, and Sang Jeong Lee[2] *([1]Korea Research Institute of Standards and Science, [2]Chungnam National University, Korea)*	
11:00~ 11:20	**The Detection and Isolation of the Abnormal Satellite Using Range Residual and Position Comparison** Yong-Woon Ahn, Young Jae Lee* , and Sangkyung Sung*(Konkuk University, Korea)*	
11:20~ 11:40	**Development of GPS/INS Fault Detection Algorithm Based RAIM** Jang Sik Yoo, Sangkyung Sung, and Young Jae Lee**(Konkuk University, Korea)*	
11:40~ 12:00	**Implementation of Testable SDINS Software** Sung Lyong Cho[1], Deok Won Lim[1], Sul Gee Park[1], Chansik Park[2], Dong-Hwan Hwang[1], and Sang Jeong Lee[1]* *([1] Chungnam National University, [2] Chungbuk National University, Korea)*	
10:40~ 12:00	**FE2(Domestic): GNSS Applications (2)** **Chair : Dr. Sang Hyun Park***(Korea Ocean Research & Development Institute, Korea)*	**201B**
10:40~ 11:00	**Weighted Correction Method of GBAS Pseudorange using Real Data of Jeju International Airport** Eunsung Lee, Moon Beom Heo, and Gi-Wook Nam**(Korea Aerospace Research Institute, Korea)*	
11:00~ 11:20	**Improvement of Hanvit for Next Generation Navigation System** Ghangho Kim[1]*, Taikjin Lee[1], Changdon Kee[1], Hyeongsang Lee[2], Sunghun Lim[2] and Youngahn Lee[2] *([1]Seoul National University, [2]ANSE Technologies, Korea)*	
11:20~ 11:40	**Performance analysis of TDLS relative navigation system** Heon Ho Choi[1], Sang Wook Hwang[1], Mi Young Shin[1], Jeen Sang Jang[2], Chansik Park[3] and Sang Jeong Lee[1]* *([1]Chungnam National University, [2]Agency for Defense Development, [3] Chungbuk National University, Korea)*	
11:40~ 12:00	**Vision/DR(Encoder, Gyro) Integrated Indoor Navigation System Using Kinematic Characteristic of a Mobile Robot** Sul Gee Park and Dong-Hwan Hwang*(Chungnam National University, Korea)*	
12:00~13:30	**Poster ession(Ⅱ) & Lunch**	

12:00~ 13:30	**Poster Ⅱ** **Chair : Dr. Jung Hyun Jo***(KASI, Korea)* **Dr. Dongho Shin***(ADD, Korea)*	**2F Lobby**
PS01	**Analyzing and Estimating of GPS Medium-Range Kinematic Positioning in Taiwan Area** Horng-Yue Chen1, Shui-Bei Yu[1], He-Chin Chen[2], Yao-Hsien Tseng[2], and Yao-Hsien Tseng[2] *([1]Academia Sinica, [2] Ministry of Interior, Taiwan)*	
PS02	**Development of a local Ionospheric Model for Improving RTK-GPS Positioning** Byung-Kyu Choi[1], Sung-Ki Cho[1], and Sang-Jeong Lee[2] *([1]Korea Astronomy Space Science Institute, [2]Chungnam National University, Korea)*	
PS03	**GPS**-DR **Integrated Navigation System for Car Navigation** Kwang-Hoon Kim*, Jong-Hwa Song, and Gyu-In Jee *(Konkuk University, Korea)*	
PS04	**Operation of the Radio Occultation Mission in KOMPSAT-5** Man-Soo Choi, Woo-Kyung Lee, Sung-Ki Cho, and Jong-Uk Park *(Korea Astronomy and Space Science Institute, Korea)*	
PS05	**The Novel System of IGS Global Data Center in KASI** Sung-Wook Jung*, Sungki Cho, In Kwan Park, and Jung-Ho Cho *(Korea Astronomy Space Science Institute, Korea)*	
PS06	**Performance Analysis of the Batch Estimation based on the Unscented Transformation** Eunseo Park[1], Byung-Kyu Choi[1], Sungki Cho[1], Jung-Ho Cho[1], Jong-Uk Park[1], Sang-Young Park[1], and Kyu-Hong Choi[2] *([1]Korea Astronomy & Space Science Institute, [2]Yonsei Uni., Korea)*	
PS07	**A Study on the World Geodetic System-84 Manual for Korean System** Jae-Hyun Han and Ja-Young Yoon *(The Korea Transport Institute, Korea)*	
PS08	**Development of INS-Aided GPS Tracking Loop and Flight Test Evaluation** Toshiaki Tsujii[1], Takeshi Fujiwara[1], Yoshimitsu Suganuma[1], Hiroshi Tomita[1], and Ivan Petrovski[2] *([1] Japan Aerospace Exploration Agency, [2]iP-Solutions,Japan)*	
PS09	**A Study on Optimal Technical Factors of Underground Structure Field Support System based on Integrated Technique of VI-GNSS** Yong-Gu Jang and Il-Hyeon Nam *(Korea Institute of Construction Technology, Korea)*	
PS10	**Accuracy of Large Block Adjustment with UltraCamX Image of Digital Aerial Camera** Jae-One Lee[1], Young-Min Kim[2], and Gwang-Jae We[3] *([1]Dong-A University, [2]Sam Ah Survey Co., Ltd.,* *[3]Hanjin Information System and Telecommunication Co., Ltd,Korea).*	
PS11	**Analysis of Ionosphere TEC Variation during the Solar Eclipse of July 22, 2009 using GPS Permanent Stations Data** He Huang, Hong-Sic Yun, Hyung-Lock Bae, and Tae-Jun Jeong *(Department of Civil, Architectural and Environmental System Engineering, Sungkyunkwan University, Korea)*	
PS12	**Control Algorithm Design for Phase Stability of Korean Standard Frequency** Deokhee Han[1], Seunghoon Yang[2,] Daihyuk Yu[2], and Chansik Park[1] *([1] Chungbuk National University, [2]Korea Astronomy Space Science Institute, Korea)*	
PS13	**A multi-frequency approach to GNSS relative positioning during high ionosphere activity periods** Yi-Teng Sun and Ming Yang* *(National Cheng Kung University, Taiwan)*	
PS14	**A Phase-only Triple-Frequency Algorithm for GNSS kinematic Positioning** Feng-Yu Chu and Ming Yan	

	(National Cheng Kung University, Taiwan)
PS15	**A Feasibility Study of GPS/Galileo Single-frequency RTK Positioning** Li-Yang Shen and Ming Yang*(National Cheng Kung University, Taiwan)*
DP01	**First Approach of GPS L5 Signal Processing Board for GNSS Ground Sensor Station** Jaehyun Kim, Chensig Shin, Sanguk Lee, and Jae Hoon Kim *(Electronics and Telecommunications Research Institute, Korea)*
DP02	**Analysis of LEO satellite precise orbit determination according to IGS clock information** Yoola Hwang*, Byoung-Sun Lee, Sanguk Lee, and Jaehoon Kim *(Electronics and Telecommunications Research Institute, Korea)*
DP03	**Airborne Monitoring Algorithm For Ionosphere Anomaly Detection At A Regional Area** Jung-Min Joo, Jeong-Ho Cho, and Moon-Beom Heo* (*Aerospace Research Institute, Korea)*

13:30~ 15:10	**FA3 : Inertial System and Integration (III)** **Chair : Prof. Hyung Keun Lee** *(Korea Aerospace Univ., Korea)*, **Prof. Yongrong Sun***(Nanjing University of Aeronautics and Astronautics, China)*	**202A**
13:30~ 13:50	**Network Based GPS/INS Integration: Concept and Performance Analysis** Hungkyu Lee[1], Binghao Lee[2], Yong Lee[2], and Young-Jin Lee[3] *([1]Changwon National University, [2]University of New South Wales, [3]Kyungil University, Korea)*	
13:50~ 14:10	**Anti-jamming Performance Test for Tightly Coupled GPS/INS Integrated Navigation System** Dongho Shin[1], Deok Bae Park[1], Sang Heon Oh[2], Seok Bo Son[2], IL Young Jeong[2], Seung Bok Kwon[3], nd Jeong Ho Ro[3] *([1] Agency for Defense Development, [2] Hanyang Navicom Co., Ltd., [3]LIG Nex1 Co,. Ltd., Korea)*	
14:10~ 14:30	**The Application of Adaptive Kalman Filter in a Two-Phase Integration Scheme of GPS/INS** Songlai Han[1,2]*, Jinling Wang[2], Nathan Knight[2], and John Ding[2] *([1]National University of Defense Technology, [2]The University of New South Wales, Australia)*	
13:30~ 15:10	**FB3: PPP/RTK Applications** **Chair : Dr. Samsung Lim***(UNSW, Australia)*, **Dr. Yukihiro Kubo***(Ritsumeikan Univ., Japan)*	**202B**
13:30~ 13:50	**Instantaneous GNSS-based Kinematic Relative Positioning and Attitude Determination using Multi-Antenna Configurations** Peter J. Buist[1]*, Peter J. G. Teunissen[1,2], Gabriele Giorgi[1], and Sandra Verhagen[1] *([1]Delft University of Technology, [2]Curtin University of Technology, Netherlands)*	
13:50~ 14:10	**Estimation Methods of Satellite Orbit and Clock Errors Based on GNSS Regression Models** Yukihiro Kubo, Tomohiro Yanase, Shinichi Otsuki, and Sueo Sugimoto*(Ritsumeikan University, Japan)*	
14:10~ 14:30	**Long Baseline GNSS Relative Positioning with Estimating Zenith Delays of Ionosphere and Tropospheric Delays** Tomohiro Yanase[1], Seigo Fujita[2], Hisaya Tanaka[1], Yukihiro Kubo[1]*, and Sueo Sugimoto[1] *([1]Ritsumeikan University, [2]Electronic Navigation Research Institute, Japan)*	
14:30~ 14:50	**Improving Performance of GNSS Ambiguity Resolution Using Kalman Filter** Hee Hak Yun[1], Deokhee Han[1], Il Kyu Park[2] and Chansik Park[1]* *([1]Chungbuk National University, [2]Hanyang Navicom Co., Ltd., Korea)*	
14:50~ 15:10	**The Compact Network RTK method: An effective solution to reduce GNSS temporal and spatial decorrelation error** Byungwoon Park* and Changdon Kee*(Seoul National University, Korea)*	
13:30~ 15:10	**FD3(Domestic): Survey** **Chair : Prof. Kwan-Dong Park***(Inha University, Korea)*	**201A**
13:30~ 13:50	**Evaluation of Positioning Availability and Accuracy Improvement Under the Integrated GNSS Environment**	

	Hye-In Kim*, Kwan-Dong Park, Chang-Moon Lee, and Ho-Seok Lee *(Inha University, Korea)*	
13:50~ 14:10	**Klobuchar Model Coefficients Estimation and Accuracy Analysis** Chang-Moon Lee*, Kwan-Dong Park, and Hye-In Kim*(Inha University, Korea)*	
14:10~ 14:30	**Derivation of Precise Coordinates of 7 Permanent GNSS Stations of KIGAM** Byoungwook Kwak[1]*, Mutaek Lim[2], Yeongsue Park[2], Hyoungrae Rim[2], and Heejae Koh[2] *([1]Chungnam National University, [2]Korea Institute of Geoscience and Mineral Resources, Korea)*	
13:30~ 15:10	**FE3(Domestic): Precise navigation/Timing** **Chair : Prof. Young Jae Lee***(Konkuk Univ., Korea)*	**201B**
13:30~ 13:50	**Prediction of GPS Clock using Grey Model** Youn-Jeong Heo, Yearn-Gui Yi, Jeong-Ho Cho, and Moon-Beom Heo *(KARI, Korea)*	
13:50~ 14:10	**Cycle Slip Detection Methods in Precision Positing Using GNSS Carrier Signal** Deokhee Han[1], Seokbo Son[2] , Chansik Park[1]* and Eunjong Cha[1] *([1]Chungbuk National University, [2]Hangyang Navicom Ltd., Korea)*	
14:10~ 14:30	**Consideration on High Accuracy Correction Information for Precise Positioning** Deuk Jae Cho*, Sang Hyun Park, and Sang Hyun Suh *(Korea Ocean Research & Development Institute, Korea)*	
15:10~15:30	**Coffee Break**	
15:30~15:50	**Closing Ceremony(Location:201)**	
15:50~16:10	**Domestic Paper Award(Location:201)**	