



# ISGNSS 2016 Tainan, Taiwan

December 5-7, 2016, International Conference Hall, NCKU

Technical Program (November 23, 2016)

Symposium Website: <http://isgnss2016.ncku.edu.tw>

## December 5, 2016 (Monday)

09:00-10:20	Registration		
10:20-10:50	Opening Ceremony (Room I)		
10:50-11:00	Group Photo		
11:00-12:35	Plenary Session 1 (Room I) Chair: Jyh-Ching Juang		
TIME	SPEAKER	ORGANIZATION	TOPIC
11:00-11:45	Benjamin Fong Chao	Institute of Earth Sciences, Academia Sinica, Taiwan	GPS: Scientific Applications Toward Better Understanding of Earth Processes <b>(Keynote)</b>
11:45-12:10	Akio Yasuda	Tokyo University of Marine Science and Technology, Japan	Overview of the Quasi-Zenith Satellite System (QZSS) and the Future Plan
12:10-12:35	Sang Jeong Lee	Chungnam National University, Korea	Sustainable GNSS – What Can Be Done?
12:35-13:35	Lunch		
13:35-16:00	Plenary Session 2 (Room I) Chair: Kai-Wei Chiang		
TIME	SPEAKER	ORGANIZATION	TOPIC
13:35-14:20	Dorota A. Grejner- Brzezinska	Department of Civil, Environmental and Geodetic Engineering, The Ohio State University, USA	50 Years of Accelerating Tomorrow: From GPS to GNSS and Beyond <b>(Keynote)</b>
14:20-14:45	Wu Chen	Hong Kong Polytechnic University, Hong Kong	Chinese Beidou System – Recent Development and Applications
14:45-15:10	Frank Zane	National Coordination Office for Space-Based Positioning, Navigation, and Timing, USA	U.S. Space-Based Positioning, Navigation and Timing (PNT) Policy Update

15:10-15:35	Pascal Viaud	GNSS.asia, EU	The Status of E-GNSS and GNSS.asia
15:35-16:00	Takeyasu Sakai	National Institute of Maritime, Port and Aviation Technology, Japan	Japanese SBAS Program: Current Status and Dual-Frequency Trial
16:00-17:00	Poster Session & Coffee Break (Room V) Chair: Chia-Chyang Chang, Horng-Yue Chen		
NUMBER	PRESENTER	ORGANIZATION	TOPIC
P01	Chalermchon Satirapod	Department of Survey Engineering, Chulalongkorn University, Thailand	Impact Analyses of using a High-Stability Receiver Clock in the GNSS Precise Point Positioning Mode
P02	Chia-Chyang Chang	Chien-Hsin University of Science and Technology, Taiwan	A Connecting Type of Localization using Reference Beacon and Multiple Devices
P03	Chuan-Min Chao	National Cheng Kung University, Taiwan	Surface Creeping Analysis of the Fengshan Fault in SW Taiwan from GPS Observations and PSInSAR
P04	Dini Purbani	Ministry of Marine Affairs and Fisheries, Indonesia	Determination of the Temporary Evacuation (TES) And The Final Evacuation (TEA) Place for Earthquake and Tsunami using Geographic Information Systems, Pariaman City of West Sumatera Province
P05	Seonghyeon Yun	Changwon National University, Korea	Accuracy Assessment of Some Potential GNSS Positioning Schemes for Ellipsoidally Referenced Hydrographic Surveys
P06	Young-Kyu Lee	Korea Research Institute of Standards and Science, Korea	Timing Performance Comparison between GPS and GLONASS Carrier Phase Data
P07	Sang-Wook Hwang	Korea Research Institute of Standards and Science, Korea	Evaluation of Carrier-Frequency-Based Two-way Satellite Time and Frequency Transfer in Asia-link
P08	Che Wang	National Cheng Kung University, Taiwan	Relationship between seasonal rainfall and GPS displacement time series in Taiwan
P09	Yi-Zuo Cao	National Cheng Kung University, Taiwan	Landslide initiation mechanism constrained by analysis of continuous GPS observations in Taiwan during 2009 Morakot typhoon

P10	Sun Young Kim	Seoul National University, Korea	Spoofing Detection Method Based on Baseline of Two GNSS Antennas using an Adaptive Fading Kalman Filter
P11	Miao-Hsiang Peng	Center for Measurement Standards, Industrial Technology Research Institute, Taiwan	Establishing a Calibration System for Network RTK in Taiwan
P12	Horng-Yue Chen	Institute of Earth Sciences, Academia Sinica, Taiwan	Seafloor Geodetic Survey off the Coast of Ilan for Earthquake and Tsunami Hazard Assessment and Disaster Mitigation Program in Taiwan
P13	Chun-Chia Hsu	National Ilan University, Taiwan	Quality Assessment of Geoidal Undulation Model in Taiwan - A Case of Hukou Township, Hsinchu County
P14	Tae-Suk Bae	Sejong University, Korea	Validation of GPS Solar Radiation Pressure Model using Satellite Laser Ranging
P15	Hee-Un Kim	Sejong University, Korea	GNSS PWV Estimation and Experimental Analysis with Remote Sensing Data
P16	Ta-Kang Yeh	National Taipei University, Taiwan	Study on the Relationship between Precipitable Water Vapor and Rainfall in Taiwan
P17	Dah-Jing Jwo	National Taiwan Ocean University, Taiwan	Signal Strength Analysis for Robust Anti-spoofing Design of the GPS Navigation Receiver
P18	Naoto Miyamoto	Tohoku University, Japan	Accurate Estimation of the Coefficient of Kinematic Friction using Post-Processed Kinematic GNSS
P19	Tianhe Xu	Shandong University, China	Clock Product Combination Strategy of iGMAS/IGS Analysis Centre using Systematic Error Compensation and Robust Estimation
P20	Arpita Bose	Asutosh College, Kolkata, India	GNSS Signal Analysis and Ionospheric Study at Kolkata
17:00-18:30	Welcome Reception		

## December 6, 2016 (Tuesday)

09:00-10:30	Session 1A (Room II)	Interference Mitigation Chair: Dah-Jing Jwo, Nobuaki Kubo	
TIME	SPEAKER	ORGANIZATION	TOPIC
09:00-09:18	Kirk Burnell	NovAtel Inc., Canada	Interference Mitigation and Preserving Multi-GNSS Performance
09:18-09:36	Dah-Jing Jwo	National Taiwan Ocean University, Taiwan	Application of M-estimation Techniques for Anti-Spoofing GNSS Navigation
09:36-09:54	Kaito Kobayashi	Tokyo University of Marine Science and Technology, Japan	Multipath Mitigation Technique under Strong Multipath Environment using Multiple Antennas in Dense Urban Areas
09:54-10:12	Kwi Woo Park	Chungbuk National University, Korea	A Performance Analysis of Subspace Decomposition based Anti-jamming Method for GNSS Receiver
10:12-10:30	Jin Hyuk Lee	Chungnam National University Department of Radio and Information Communications Engineering, Korea	Integer Simulation to Implementing the Hardware of Relative Navigation Based on Data Link
09:00-10:30	Session 1B (Room III)	BeiDou Navigation System Chair: Chalermchon Satirapod, Hyung Keun Lee	
TIME	SPEAKER	ORGANIZATION	TOPIC
09:00-09:18	Brian Bramanto	Geodesy Research Group, Institut Teknologi Bandung, Indonesia	The Contribution of BeiDou System for Positioning Accuracy Improvement: A Perspective from Bandung, Indonesia
09:18-09:36	Lawoo Kim	Korea Aerospace University, Korea	Evaluation of GPS/BeiDou/Altimeter Integrated Positioning in Urban Area
09:36-09:54	Feng-Yu Chu	National Cheng Kung University, Taiwan	The performance of BeiDou phase-only triple-frequency ambiguity resolution
09:54-10:12	Teeradon Thongkam	Chulalongkorn University, Thailand	BeiDou Baseline Processing: Independency and Complementarity
10:12-10:30	Brian Bramanto	Geodesy Research Group, Institut Teknologi Bandung, Indonesia	Assessment of the BeiDou Data Quality and the Positioning Performance: A Perspective from Bandung, Indonesia
09:00-10:30	Session 1C (Room IV)	GNSS Scintillation Chair: Charles Rino, Yuichi Otsuka	
TIME	SPEAKER	ORGANIZATION	TOPIC

09:00-09:25	Charles Rino	Colorado State University, USA	Modelling Scintillation for GPS and RO Geometries ( <b>solicited</b> )
09:25-09:50	Yuichi Otsuka	ISEE, Nagoya University, Japan	Ionospheric Scintillation and Irregularity Drift Observed with Closely-Spaced GPS Receivers in Indonesia ( <b>invited</b> )
09:50-10:10	Toshiaki Tsujii	Japan Aerospace Exploration Agency, Japan	Flight Test Evaluation of a GPS/INS Based Integrity Monitoring Under Equatorial Plasma bubbles
10:10-10:30	Lung-Chih Tsai	Center for Space and Remote Sensing Research, National Central University, Taiwan	Global Morphology of Ionospheric F-layer Scintillations using FS3/COSMIC GPS Radio Occultation Data
10:30-11:00	Coffee Break (Room V)		
11:00-12:30	Session 2A (Room II)	Receiver and Algorithm Development (I) Chair: Chansik Park	
<b>TIME</b>	<b>SPEAKER</b>	<b>ORGANIZATION</b>	<b>TOPIC</b>
11:00-11:18	Ju Hyun Lee	Chungnam National University, Korea	The Performance Analysis of Carrier Phase Measurements as GPS Tracking Structures
11:18-11:36	Hao Yu Wang	National Cheng Kung University, Taiwan	A GPS Anti-Spoofing Method Based on Multiple Target Tracking Algorithm
11:36-11:54	Jong-Won Choi	Chungbuk National University, Korea	Effects of Digital Filters in a Direct RF Sampling GNSS Receiver
11:54-12:12	Hendy Fitriani Suhandri	Department of Geodetic Engineering, Institut Teknologi Nasional, Indonesia	An Intensive Iterative Method to Solve the Tikhonov-Philips Regularization for Short Timespan GNSS Double-Difference Observation Applications
12:12-12:30	Min Kim	Department of Control and Robotics Engineering, Chung-Buk National University, Korea	Performance evaluation of GPS L2C acquisition methods for a real-time SDR
11:00-12:30	Session 2B (Room III)	Geodetic Applications of GNSS Chair: Chainway Hwang, Hasanuddin Abidin	
<b>TIME</b>	<b>SPEAKER</b>	<b>ORGANIZATION</b>	<b>TOPIC</b>
11:00-11:18	Chainway Hwang	National Chiao Tung University, Taiwan	Improving Coastal Gravity Anomalies using GPS-Derived Sea Surface Heights
11:18-11:36	Hasanuddin Z. Abidin	Institute of Technology Bandung, Indonesia	Recent Land Subsidence in Semarang (Indonesia) as Observed using GPS Surveys

11:36-11:54	Yusufjon Tillayev	Ulugh Beg Astronomical Institute, Uzbekistan	Implementation of GPS Meteorology in Uzbekistan
11:54-12:12	Ihsan Naufal Muafiry	Science Faculty, Hokkaido University, Japan	Deformation Analysis due to Mentawai Mw 7.2 (2008) Earthquake using Continuously Global Positioning System
12:12-12:30	Yucheng Fang	Department of Geomatics, National Cheng Kung University, Taiwan	Present-Day Crustal Deformation in Mindoro Island, Philippines Derived from PS-InSAR and GPS Data
11:00-12:30	Session 2C (Room IV)	GNSS for Ionosphere Chair: Takuya Tsugawa, Charles C. H. Lin	
<b>TIME</b>	<b>SPEAKER</b>	<b>ORGANIZATION</b>	<b>TOPIC</b>
11:00-11:20	Takuya Tsugawa	National Institute of Information and Communications Technology, Japan	High-Resolution GNSS-TEC Observations using Dense GNSS Receiver Networks <b>(invited)</b>
11:20-11:40	Dieter Bilitza	Department of Physics and Astronomy, George Mason University and NASA GSFC, USA	The Importance of GNSS Data for the International Reference Ionosphere <b>(invited)</b>
11:40-11:56	Minyang Chou	National Cheng Kung University, Taiwan	Global Ionosphere Mapping Based on Neural Network and Kalman Filter
11:56-12:13	Ho-Fang Tsai	Department of Earth Sciences, National Cheng Kung University, Taiwan	Regional Ionosphere Mapping using Taiwan Real-Time GNSS Network
12:13-12:30	Natsuki Kinugasa	Yokohama National University, Japan	Mitigation of Ionospheric Effect on Multi-GNSS Positioning with Ionosphere Delay Estimation using Single-frequency Measurement of Selected Satellites
12:30-13:30	Lunch		
13:30-15:00	Session 3A (Room II)	Receiver and Algorithm Development (II) Chair: Dong-Hwan Hwang	
<b>TIME</b>	<b>SPEAKER</b>	<b>ORGANIZATION</b>	<b>TOPIC</b>
13:30-13:48	Sunyong Lee	Chungnam National University, Korea	A Design of Roll-Rate Estimation Method using Extended Kalman Filter for Spinning Vehicle
13:48-14:06	Zeng Qingxi	Nanjing University of Aeronautics and Astronautics, China	Parallel Acquisition Algorithm for Multicore Beidou Software Receiver Based on Combined FFT

14:06-14:24	Yeongkwon Choe	Seoul National University, Korea	Observability Analysis of Attitude Determination Method Based on Vector Matching Technique
14:24-14:42	Hendy Fitriani Suhandri	Department of Geodetic Engineering, Institut Teknologi Nasional, Indonesia	Implementation of Gradient-Iterative Least Squares on Estimating the Quaternion Component for GNSS-Based Attitude Determination
14:42-15:00	Min-Gyou Cho	Department of Control and Robotics Engineering, Chungbuk National University, Korea	A Design of GPS, Galileo and BDS Combined Attitude Determination System
13:30-15:00	Session 3B (Room III)	PPP, RTK and e-GNSS Chair: Wu Chen	
<b>TIME</b>	<b>SPEAKER</b>	<b>ORGANIZATION</b>	<b>TOPIC</b>
13:30-13:50	Kyaw Sann Oo	4WD KAT Management Company Limited, Myanmar	Proposal for Continuous Geodetic Survey Network in Myanmar ( <b>invited</b> )
13:50-14:08	Shih-Min Hsiao	National Land Surveying and Mapping Center, Taiwan	e-GNSS Real-Time Kinematic Positioning System: The CORS in Taiwan
14:08-14:25	Chieh-Yu Lin	Department of Geomatics National Cheng Kung University, Taiwan	Integrated GPS/GLONASS/BeiDou High-Rate Kinematic Positioning
14:25-14:42	Feng-Fu Chuang	National Land Surveying and Mapping Center, Taiwan	A Study on VBS-RTK Determining Legal Coordinates by 3D Real-time Coordinate Transformation
14:42-15:00	Feng-Yu Chu	National Cheng Kung University, Taiwan	Improving Single-Epoch RTK Positioning by using Combined GNSS Measurements
13:30-15:00	Session 3C (Room IV)	GNSS for Ionosphere and Space Weather Chair: Lung-Chih Tsai, Alexei Dmitriev	
<b>TIME</b>	<b>SPEAKER</b>	<b>ORGANIZATION</b>	<b>TOPIC</b>
13:30-13:45	Chia-Hung Chen	National Cheng Kung University, Taiwan	Space Weather for the Ionosphere During Geomagnetic Storm Condition
13:45-14:00	Charles C. H. Lin	Department of Earth Science, National Cheng Kung University, Taiwan	GNSS Observation and Simulation of the Upper Atmosphere Disturbance Waves Triggered by Rocket Exhausts
14:00-14:15	Chinmaya Nayak	Center for Space and Remote Sensing, National Central University, Taiwan	Global Ionospheric Response During the St. Patrick's Day Storm of March 17, 2015

14:15-14:30	Alexei Dmitriev	Institute of Space Science, National Central University, Taiwan	Spatial Scales of Recurrent Ionospheric Storms
14:30-14:45	Alla Suvorova	Institute of Space Science National Central University, Taiwan	Energetic Electron Enhancements in the Equatorial Ionosphere as An Important Source of Ionospheric Perturbations
14:45-15:00	Dudy D. Wijaya	Geodesy Research Group, Bandung Institute of Technology, Indonesia	A New Method for Determination of the Ionospheric foF2 using a Stand-Alone GNSS Receiver
15:00-15:30	Coffee Break (Room V)		
15:30-17:00	Session 4A (Room II)	GNSS/IMU Integration Chair: Changdon Kee	
<b>TIME</b>	<b>SPEAKER</b>	<b>ORGANIZATION</b>	<b>TOPIC</b>
15:30-15:48	Jungbeom Kim	Seoul National University, Korea	A New Mitigation Method of Gravity Influence for RISS/GPS in Land Vehicle
15:48-16:06	Zhong-Ling Tseng	National Cheng Kung University, Taiwan	Performance Analysis of GNSS integrated with IMU on mobile devices for multi-applications
16:06-16:24	You-Liang Chen	Department of Geomatics Engineering, National Cheng Kung University, Taiwan	The Performance Analysis of GNSS/INS Integration with Barometer/Odometer for Land Vehicle Application
16:24-16:42	Han-Wen Chang	National Cheng Kung University, Taiwan	Monitoring Multi-Frequency Ocean Signals using Low-Cost GNSS/IMU Buoys
16:42-17:00	Woojin Jang	Chungbuk National University, Korea	Design of Vehicle Navigation System using Integrated GPS/AHRS/DR Navigation System
15:30-17:00	Session 4B (Room III)	GNSS Constellation and Orbit/Clock Chair: Guochang Xu, Ta-Kang Yeh	
<b>TIME</b>	<b>SPEAKER</b>	<b>ORGANIZATION</b>	<b>TOPIC</b>
15:30-15:48	Ta-Kang Yeh	National Taipei University, Taiwan	Identifying the Relationship between Positioning Precision and Clock Error of a GPS Receiver
15:48-16:06	Yujun Du	Institute of Space Sciences, Shandong University, China	Distributed Autonomous Orbit Determination of Navigation Satellites Based on Inter-Satellite Links
16:06-16:24	Ershen Wang	Shenyang Aerospace University, China	Evaluation Algorithm Based on Markov Process for GNSS Constellation Availability



16:24-16:42	Jae-Hoon Jeong	Chungnam National University, Korea	Analysis of Timing Synchronization For IR-UWB Based OWR Location System
16:42-17:00	Dongxia Wang	Beijing Satellite Navigation Center, China	GNSS Distributed Autonomous Orbit Determination Method Based on Inter-Satellite Two-Way Ranging
Alternative	Tzu-Pang Tseng	National Central University, Taiwan	Estimation of GNSS Satellite Clocks for Near Real-time Applications
Alternative	Cheinway Hwang	National Chiao Tung University, Taiwan	Geocenter Motion Estimated from GRACE Orbits: the Impact of F10.7 Solar Flux
15:30-17:00	Session 4C (Room IV)	GNSS observations of Lithosphere - Atmosphere - Ionosphere coupling Chair: Yoshihiro Kakinami, S. Tulasi Ram	
<b>TIME</b>	<b>SPEAKER</b>	<b>ORGANIZATION</b>	<b>TOPIC</b>
15:30-15:50	Yoshihiro Kakinami	National Institute of Technology, Tomakomai College, Japan	Detection of Maximum Upper Vertical Displacement by Earthquakes using GNSS Total Electron Content ( <b>invited</b> )
15:50-16:08	Tulasiram Sudarsanam	Indian Institute of Geomagnetism, India	Annual Asymmetry Observed from Formosat-3/COSMIC Radio Occultation Observations during the Ascending Phase of Solar Cycle 24
16:08-16:25	O-Jong Kim	Seoul National University, Korea	SNUGLITE Project: Space Weather Monitoring and Earthquake Observation using Dual-Frequency GPS Receivers on Cube-Satellite Platform
16:25-16:43	Zhizhao Liu	The Hong Kong Polytechnic University, Hong Kong	Ionospheric Responses to Cyclone Tembin and Tropical Storm Jebi Observed from COSMIC Radio Occultation and Ground-based GPS Data over Hong Kong Region
16:43-17:00	Kwang Ho Choi	Korea Aerospace University, Korea	A Method to Detect Abnormal Ionospheric Measurements In a GPS Receiver Network
18:00-20:00	Banquet (Shangri-La's Far Eastern Plaza Hotel)		

## December 7, 2016 (Wednesday)

09:00-10:30	Session 5A (Room I)	Multi-sensor and Integrated Navigation Chair: Ben K. H. Soon, Toshiaki Tsujii	
TIME	SPEAKER	ORGANIZATION	TOPIC
09:00-09:18	Junhak Lee	Chungnam National University, Korea	Design of the Manager-based M&S software for Multiple Radio Positioning
09:18-09:36	Shih-Huan Huang	National Cheng Kung University, Taiwan	The Performance Analysis Unequal Weighted Single Image Resection for Indoor Navigation Applications using Smartphones
09:36-09:54	Thanh Trung Duong	Hanoi University of Mining and Geology, Vietnam	On-line Smoothing and Error Modelling in the Integration of GNSS and Visual Odometry
09:54-10:12	Moonsuk Koo	Chungnam National University, Korea	A New GPS/DME/MEMS INS Integrated Navigation Design Method with a Selective Use of Altimeter
10:12-10:30	Tz-Chiau Su	National Cheng Kung University, Taiwan	Images Aided Algorithm For Portable Device in Arbitrary Orientation
09:00-10:30	Session 5B (Room II)	GNSS Remote Sensing and Reflectometry Chair: Hungkyu Lee, Zhizhao Liu	
TIME	SPEAKER	ORGANIZATION	TOPIC
09:00-09:18	Chi-Ming Lee	Department of Geomatics, National Cheng Kung University, Taiwan	Coastal Sea Level Variations Derived from GNSS SNR Data– A Case Study in Taiwan
09:18-09:36	Yu Zheng	Department of Land Surveying and Geoinformatics, The Hong Kong Polytechnic University, Hong Kong	Enhanced GNSS-SAR Range-Doppler Algorithm for the Target Detection of Weak Reflected Signals
09:36-09:54	Yusufjon Tillayev	Ulugh Beg Astronomical Institute, Uzbekistan	Remote Sensing of Water over Selected Locations of Uzbekistan
09:54-10:12	Hwa Chien	Institute of Hydrological and Oceanic Sciences, National Center University, Taiwan	Implementation using GNSS-Reflectometry Signal for Sea Surface Wind Remote Sensing

10:12-10:30	Zhimin Liu	Shandong University of Science and Technology, China	Comparative Analysis of Precipitable Water Vapor Acquired from CORS and Radiosonde in Qingdao
09:00-10:30	Session 5C (Room III)	Industry Session 1 Chair: Hsiu-Wen Chang	
<b>TIME</b>	<b>SPEAKER</b>	<b>ORGANIZATION</b>	<b>TOPIC</b>
09:00-09:18	Honglian Gu	Shanghai HuaCe Navigation Technology Ltd, China	CHC CORS Solution and Application
09:18-09:36	Jianxin Li	Spirent Communications PLC, UK	GNSS Vulnerability and Spirent Robust PNT Framework
09:36-09:54	Stefan Wei	Hi-Target Surveying Instrument, China	Hi-Target Global PPP Solution – RTP
09:54-10:12	Hou-Re Chen	Chung Hsing Survey, Taiwan	The Road Inventory and Applications by Mobile LiDAR in Taiwan
10:12-10:30	Guenter Heinrichs	IFEN GmbH, Germany	IFEN's New NCS TITAN GNSS Simulator - The New Test Reference for Multi-GNSS Professional and Commercial Applications
10:30-11:00	Coffee Break (Room V)		
11:00-12:30	Session 6A (Room I)	Vehicle and Aircraft Navigation Chair: Shau-Shiun Jan, Li-Ta Hsu	
<b>TIME</b>	<b>SPEAKER</b>	<b>ORGANIZATION</b>	<b>TOPIC</b>
11:00-11:18	Shau-Shiun Jan	National Cheng Kung University, Taiwan	GPS Report of Aircraft ADS-B Data and its Use in Aviation Weather
11:18-11:36	Jong-Hwa Jeon	Chungnam National University, Korea	Development of Carrier-Smoothed GNSS/DR System for Precise Vehicle Navigation with Measurements from Multi-GNSS
11:36-11:54	Li-Ta Hsu	The Hong Kong Polytechnic University, Hong Kong	Determination of Vehicle Driving On or Under Bridges using a Standard GNSS Navigator

11:54-12:12	Duojie Weng	Department of Land Surveying and Geoinformatics, The Hong Kong Polytechnic University, Hong Kong	Improving Integrity Performance of Aircraft Landing by Optimal Integration of GBAS and SBAS Data
12:12-12:30	Lino Denaro	Department of Geomatics, National Cheng Kung University, Taiwan	Cross-Sensor Relative Radiometric Normalization from Corresponding Images Date of Different Landsat 7 ETM+ and 8 OLI Data
11:00-12:30	Session 6B (Room II)	GNSS Environmental Monitoring Chair: Kwo-Hwa Chen, Tae-Suk Bae	
<b>TIME</b>	<b>SPEAKER</b>	<b>ORGANIZATION</b>	<b>TOPIC</b>
11:00-11:18	Min-Chien Tsai	Central Weather Bureau, Taiwan	Pre-seismic Baseline Variation, Anomalous High Strain Accumulation, and Coseismic Deformation of Meinong Earthquake in SW Taiwan: Insight from Continuous GPS Measurements
11:18-11:36	Octavian Andrei	Chulalongkorn University, Thailand	Quantitative and Qualitative Assessment of the Multi-GNSS Ecosystem from IGS MGEX CORS Stations in Thailand
11:36-11:54	Yen-Po Lai	National Cheng Kung University, Taiwan	Joint Inversion of GPS and Teleseismic Data for the Source Model of the 2016 Meinong Earthquake
11:54-12:12	Yu-Wen Chen	National Cheng Kung University, Taiwan	Early Warning for the Earthquake Induce Landslides aside the High way with High Rate GNSS Network and Pre-Defined Algorithms
12:12-12:30	Yo-Gin Lin	National Cheng Kung University, Taiwan	Potential Seismic Source Area of the Liuchia – Muchiliao Fault Inferred From the 2002 – 2015 Geodetic Data and Intensity Distribution of the 1862 Tainan Earthquake
Alternative	Kwo-Hwa Chen	National Taipei University, Taiwan	Taiwan High Accuracy Vertical Velocity Field, 2000-2015
11:00-12:30	Session 6C (Room III)	Industry Session 2 Chair: Hsiu-Wen Chang	
<b>TIME</b>	<b>SPEAKER</b>	<b>ORGANIZATION</b>	<b>TOPIC</b>
11:00-11:18	Susan Yang	Century Instrument, Taiwan	Civil-NET Correction Service Technology

11:18-11:36	Kyron Howell	iP-Solutions, Japan	GNSS RF Simulator
11:36-11:54	Patrick Kao	Taiwan Instrument, Taiwan	Integrated Image And Positioning Technology for Monitoring Applications
11:54-12:12	Edward Chang	GEOSAT Aerospace Technology, Taiwan	Mapping Experience using UAV Products in Taiwan
12:30-13:30	Lunch		
13:30-14:00	Closing Ceremony (Room I)		
14:00-17:30	Optional City Tour (Chihkan Tower, Grand Mazu Temple, and Anping Fort)		