

AGENDA

THE 42nd ASIAN CONFERENCE ON REMOTE SENSING

Venue: Can Tho University (CTU)
Campus 2, 3/2 Street, Xuan Khanh ward, Ninh Kieu District, Can Tho, Vietnam

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22nd – 24th November 2021

Viet Nam Time	Contents
Day before Conference: 21st November 2021	
Link zoom: https://zoom.us/j/2462825468?pwd=aFB5WlhDL2Q5MXRsb2lzM0puTEUyZz09	
Meeting ID: 246 282 5468 Pass: ACRS42CTU	
10:00-17:00	Training from SERVIR Mekong
Day 1: 22nd November 2021 (Monday)	
Link zoom: https://zoom.us/j/2462825468?pwd=aFB5WlhDL2Q5MXRsb2lzM0puTEUyZz09	
Meeting ID: 246 282 5468 Pass: ACRS42CTU	
9:30-10:00	Welcome to ACRS2021 Video
10:00-10:50	Opening Ceremony
10:50-11:00	Tea/Coffee Breaks
11:00-12:30	Keynote Speeches
12:30-13:30	Lunch Breaks
13:30-15:30	Parallel sessions: Technical Exhibition & Technical Sessions (A-1,2,3,4,5,6)
17:00-18:00	GeoMixer @ ACRS2021
Day 2: 23rd November 2021 (Tuesday)	
10:00-12:00	Parallel sessions: Technical Sessions (B-1,2,3,4,5,6)
12:00-13:30	Lunch Breaks
13:30-15:30	Parallel sessions: Technical Sessions (C-1,2,3,4,5,6)
17:30-19:30	AARS General Conference (Members only)
Day 3: 24th November 2021 (Wednesday)	
10:00-12:00	Parallel sessions: Technical Sessions (D-1,2,3,4,5,6)
12:00-13:30	Lunch Breaks
13:30-15:30	Closing Ceremony Link zoom: https://zoom.us/j/2462825468?pwd=aFB5WlhDL2Q5MXRsb2lzM0puTEUyZz09 Meeting ID: 246 282 5468 Pass: ACRS42CTU
15:30-16:00	Tea/Coffee Breaks
16:30-18:00	GRSS Tutorial

Day 1 (22nd November 2021): ACRS Conference

Viet Nam Time	Contents
9:30-10:00	Welcome to ACRS2021 Video
10:00-10:50	<p>Opening Ceremony</p> <p>Link zoom: https://zoom.us/j/2462825468?pwd=aFB5WlhDL2Q5MXRsb2IzM0puTEUyZz09 Meeting ID: 246 282 5468 Pass: ACRS42CTU</p>
10:50-11:00	Tea/Coffee Breaks
11:00-12:30	<p>Keynote Speeches</p> <p>Chairman: Prof. Kohei Cho, Prof. Vo Quang Minh</p> <p>Keynote 1: Trends in Photogrammetry and Remote Sensing Prof. Uwe Sörgel, Chair, Institute for Photogrammetry at University of Stuttgart, Germany. President, DGPF (German Society for Photogrammetry, Remote Sensing and Geoinformation)</p> <p>Keynote 2: Remote sensing development strategy for Vietnam to 2030 vision to 2040 Dr. Nguyen Quoc Khanh, Director of National Remote Sensing Department (NRSD), Ministry of Natural Resources and Environment, Viet Nam.</p> <p>Keynote 3: Remote Sensing & Industrial Revolution 4.0 in Agriculture Prof. Vo Quang Minh, President of Science Council of College of Environment & Natural Resources, Can Tho University, Viet Nam.</p>
12:30-13:30	Lunch Breaks
13:30-15:30	Parallel sessions: Technical Exhibition & Technical Sessions (A-1,2,3,4,5,6)
17:00-18:00	GeoMixer @ ACRS2021

PARALLEL SESSIONS (22nd November 2021)

Session 1: Technical Exhibition (Room A1)	
Chairman: Prof. Vo Quang Minh Dr. Chu Hai Tung	
Link zoom: https://zoom.us/j/2462825468?pwd=aFB5WlhDL2Q5MXRsb2lzM0puTEUyZz09	
Meeting ID: 246 282 5468 Pass: ACRS42CTU	
Time	Agency
13:30-15:30	International Society for Photogrammetry and Remote Sensing - ISPRS
	Geoscience and Remote Sensing Society - GRSS
	Remote Sensing Technology Center of Japan - RESTEC
	PIESAT Information Technology Co., Ltd.
	Vietnam-Denmark VidaGIS company - VidaGIS
	Asian Association on Remote Sensing - AARS
	SERVIR-Mekong
Synthesis Session: Prof. Vo Quang Minh Dr. Chu Hai Tung	

Session 2: Sensor and Platform (Room A2)			
Chairman: Assoc. Prof. Pham Nguyen Khang Dr. Mei Ling Yeh			
Link zoom: https://us06web.zoom.us/j/4705556291?pwd=NGtZeHVSY1R3NWp2NStGNG1VYlNudz09			
Meeting ID: 470 555 6291 Pass: ACRS42CTU			
Time	Paper ID	Title	Speaker
13:30-13:45	ACRS21_060	Assessing Inter-sensor alignment of Diwata-2's High Precision Telescope	Kristian R. Monay
13:45-14:00	ACRS21_098	Feature Selection of EEG signals for Emotional State Classification in Machine Learning	Zin War Oo
14:00-14:15	ACRS21_132	Data acquisition techniques on existing historical building based on Building Information Modeling (BIM) using close-range method in Bali	Ketut Tomy Suhari

14:15-14:30	ACRS21_154	Calibration And Validation Of An Airborne Hyperspectral Scanning Imager For Agricultural Missions	Mara Alain Maestro
14:30-14:45	ACRS21_155	Payload characterization of an airborne push-broom hyperspectral imager	Micherene Clauzette Lofamia
14:45-15:00	ACRS21_206	Inspections of hydraulic and slope stability structures with UAV-based high definition thermal camera	Mei Ling Yeh
15:00-15:15	ACRS21_218	A SAR ATR method using WVV descriptor of a subset of scattering centers	Sumi Lee
15:15-15:30	ACRS21_248	Radiometric Consistency Intercomparison of GF-5, ZY-1-02D and Landsat 8	Siqi Feng
Synthesis Session: Assoc. Prof. Pham Nguyen Khang Dr. Mei Ling Yeh			

Session 3: Algorithm and Image Processing (Room A3) Chairman: Prof. John Odindi Assoc. Prof. Nguyen Dinh Duong			
Link zoom: https://us06web.zoom.us/j/8421575917?pwd=VnVmb1FPOUFVQTFBcnlUU3dDTU15UT09 Meeting ID: 842 157 5917 Pass: ACRS42CTU			
Time	Paper ID	Title	Speaker
13:30-13:45	ACRS21_013	A novel method for measurement of orientation of rock joints from point cloud by facet amalgamation approach	Anthony So
13:45-14:00	ACRS21_015	An analysis on the optimal segmentation of VHR satellite RGB images	Jiyeon Moon
14:00-14:15	ACRS21_018	Modelling Soil Organic Carbon Stocks Under Commercial Forestry in KwaZulu-Natal South Africa Using Topo-Climate Variables	Odebiri Omosalewa
14:15-14:30	ACRS21_022	Atmospheric Correction for Inland Waters Using Artificial Neural Networks	Oanh Thi La
14:30-14:45	ACRS21_137	Pixel based land cover change detection analysis and prediction using remote sensing and GIS techniques - A case study of Mandalay city, Myanmar	Aye Mya Thein

14:45-15:00	ACRS21_043	Object-Based Classification Using Mask R-CNN and CNN from Very High-Resolution Imagery	Batbold Badamdorj
15:00-15:15	ACRS21_063	Relating the spatial resolution and sensor degradation of DIWATA-2's high precision telescope using edge detection	Fritz Rhaem Malinao Olivar
15:15-15:30	ACRS21_065	Bi-temporal Radiometric Normalization of Landsat 8 Images Using Pseudo-Invariant Features	Gabriel Yedaya Immanuel Ryadi
Synthesis Session: Prof. John Odindi Assoc. Prof. Nguyen Dinh Duong			

Session 4: Geographic Information Systems (GIS) and Web GIS (Room A4) Chairman: Prof. Mu Mu Than Dr. Le Phuoc Thanh			
Link zoom: https://us06web.zoom.us/j/87327228516?pwd=TE5DQjJzd0ovUmpBQjIjKS1MOT29oQT09 Meeting ID: 873 2722 8516 Pass: ACRS42CTU			
Time	Paper ID	Title	Speaker
13:30-13:45	ACRS21_006	GIS based accessibility research of the community pharmacy services in districts with high number of covid-19 cases during pandemic in istanbul	Ahmet Ozgur Dogru
13:45-14:00	ACRS21_034	Covid-19 geo-spatial big data analysis of population mortality for countries situated at latitudes between 64°N and 35°S	Arun Kumar Verma
14:00-14:15	ACRS21_038	Analysis of keyhole tomb-like topography of Orono-Shima Island - Comparison with the oldest keyhole type tombs or cairn tombs in Japan or North Korea	Yamaguchi Tetsuya
14:15-14:30	ACRS21_048	Land suitability assessment for poultry farms in Davao city, Southern Philippines using geographic information system (GIS) and fuzzy analytic hierarchy process (AHP)	Ken Neth Marie Labra
14:30-14:45	ACRS21_111	Mymarhalah: a smart navigation mobile application for musafir in malaysia using GIS and related technologies	Norafiza Saleha Sahlan

14:45-15:00	ACRS21_126	Site suitability analysis for a nuclear power plant using AHP and GIS technique - Sri Lanka	D.B.A.U. Dharmapala
15:00-15:15	ACRS21_151	Spatial Analysis on the Patterns and Reasons of Migration in a Satellite Town, Yangon Region	Mu Mu Than
15:15-15:30	ACRS21_156	Hotel Locations in a Tourism Destination: A Spatial Analysis Approach	Idham Riandhika Amanda
Synthesis Session: Prof. Mu Mu Than Dr. Le Phuoc Thanh			

Session 5: Remote Sensing & Mapping (Room A5) Chairman: Prof. Dursun Zafer Seker Dr. Lam Dao Nguyen			
Link zoom: https://us06web.zoom.us/j/86257211879?pwd=TlBjaFdZSGZWd1ZVdG9tV05UUTA1dz09 Meeting ID: 862 5721 1879 Pass: ACRS42CTU			
Time	Paper ID	Title	Speaker
13:30-13:45	ACRS21_020	Exploring urban land use change using GIS integrated geostatistical analysis reference to Colombo urban fringe, Sri Lanka	Polgampala Ralalage Kumudu Chapa Bandara
13:45-14:00	ACRS21_086	Remote sensing and GIS web-based system for protection and restoration of mangrove (E-Pesisir) in Malaysian's coastline	Siti Nor Afzan Abdul Habib
14:00-14:15	ACRS21_114	Thin Plate Spline in Determining 500 Years Morphology Evolution of Historical City of Melaka	Marina Mohd Nor
14:15-14:30	ACRS21_136	Spatial analysis on the urban changes of Tanintharyi town in Myanmar	Khin Mar Yee
14:30-14:45	ACRS21_002	Determination of Maize Plantations on a Large-scale Agricultural Basin with Sentinel 2 Satellite Images	Ugur Alganci
14:45-15:00	ACRS21_012	Enhancing bathymetric mapping capability using multi-zone ensemble fitting: facilitating emerging post covid-19 demands	Kelvin Tang Kang Wee
15:00-15:15	ACRS21_014	Advancing the use of LIDAR in geotechnical applications in Hong Kong - A 10-year overview	Anthony So

15:15-15:30	ACRS21_019	Estimating aboveground net primary productivity of reforested trees in urban landscape using integrated biophysical variables and remotely sensed data	Mthembeni Mngadi
Synthesis Session: Prof. Dursun Zafer Seker Dr. Lam Dao Nguyen			

Session 6: Disaster Monitoring and Prevention (Room A6) Chairman: Prof. Kohei Cho Dr. Nguyen Quang Tuan			
Link zoom: https://us06web.zoom.us/j/9627023731?pwd=dkl2Qk1GMGp3TzFqWmFEcDZiOUNLQT09 Meeting ID: 962 702 3731 Pass: ACRS42CTU			
Time	Paper ID	Title	Speaker
13:30-13:45	ACRS21_118	Climate change, land use cover change and its impact on coastal area	Dewayany Sutrisno
13:45-14:00	ACRS21_211	Glocal monitoring for disaster information sharing	Kohei Cho
14:00-14:15	ACRS21_225	Wildfire hotspot clustering and false alarm data detection derived from Suomi NPP satellite over Thailand region	Thanarporn Khanpanya
14:15-14:30	ACRS21_051	Ground displacement after MW6.7 earthquake in lake Khövsgöl of Mongolia determined Sentinel-1b satellite data	Zolzaya Lkhamsuren
14:30-14:45	ACRS21_253	Surface deformation analysis in Istanbul, Turkey using multi-temporal ALOS-2 data	Ahmet Delen
14:45-15:00	ACRS21_138	Estimating Aboveground Forest Carbon Stocks Using Multi-Sensor Satellite Data and Field Measurements in the Philippines	Jose Don T. De Alban
15:00-15:15	ACRS21_119	Decision tree based classification and habitat suitability prediction of migratory birds	Vishal Kumar
15:15-15:30	ACRS21_033	A fire risk map for protected areas of Mongolia: Khangain Nuruu National Park (NP), Tarvagatain Nuruu NP, Khankhokhii Spa, Ulaan Taiga Spa and Khovsgol Lake Spa	Ochirkhuyag Lkhamjav
Synthesis Session: Prof. Kohei Cho Dr. Nguyen Quang Tuan			

Day 2 (23rd November 2021): ACRS Conference

Viet Nam Time	Contents
10:00-12:00	Parallel sessions: Technical Sessions (B-1,2,3,4,5,6)
12:00-13:30	Lunch Breaks
13:30-15:30	Parallel sessions: Technical Sessions (C-1,2,3,4,5,6)
17:30-19:30	AARS General Conference (Members only)

PARALLEL SESSIONS (10:00-12:00, on 23rd November 2021)

Session 1: JAXA Session (Room B1)			
Chairman: Dr. Shinichi Sobue Dr. Phan Kieu Diem			
Link zoom: https://zoom.us/j/2462825468?pwd=aFB5WlhDL2Q5MXRsb2lzM0puTEUyZz09			
Meeting ID: 246 282 5468 Pass: ACRS42CTU			
Time	Paper ID	Title	Speaker
10:00-10:20	ACRS21_025	Evaluation of different precipitation products over Akdeniz basin, Turkey	Dursun Zafer Seker
10:20-10:40	ACRS21_029	Speckle filtering and physical scattering decomposition for ALOS-2 PALSAR-2 polarimetric mosaic	Ken Yoong Lee
10:40-11:00	ACRS21_032	Development of a method for extracting disaster areas around infrastructures using multi-temporal SAR images	Tomoya Kusunose
11:00-11:20	ACRS21_123	Extraction of very-high resolution topography from Tri-stereo Kompsat-3 imagery through refined geometric modeling	Nash Frederic M. Prado
11:20-11:40	ACRS21_138	Estimating aboveground forest carbon stocks using multi-sensor satellite data and field measurements in the Philippines	Mari Trix L. Estomata
11:40-12:00	ACRS21_161	Land cover classification based on backscatter characteristics using Sentinel-1A and ALOS PALSAR	Soni Darmawan
Synthesis Session: Dr. Shinichi Sobue Dr. Phan Kieu Diem			

Session 2: Disaster Monitoring and Prevention (Room B2)Chairman: **Assoc. Prof. Nguyen Thi Hong Diep****Assoc. Prof. Nguyen Hoang Khanh Linh**Link zoom: <https://us06web.zoom.us/j/4705556291?pwd=NGtZeHVSY1R3NWp2NStGNG1VYINudz09>

Meeting ID: 470 555 6291 Pass: ACRS42CTU

Time	Paper ID	Title	Speaker
10:00-10:15	ACRS21_005	Importance of space technology for monitoring and management forest fires (case study: Syrian – Lebanese coastal forests)	Mohamad Rukieh
10:15-10:30	ACRS21_054	GIS-aided performance simulation of gigaquit dam: a comparative analysis of hypothetical flooding	Lorie Cris Sanchez Asube
10:30-10:45	ACRS21_057	Pollution Form in Nuclear Disasters Depending on Meteorological Conditions	Susumu Ogawa
10:45-11:00	ACRS21_064	Spatial analysis of the drought by using satellite remote sensing and GIS - A case study at Monaragala district Sri Lanka	Kuda Udage Janaki Sandamali (Sandamali K.U.J.)
11:00-11:15	ACRS21_092	Influence of proportion between landslide and none landslide sample ratio to landslide susceptibility modeling	Van Trung, Chu
11:15-11:30	ACRS21_095	Agricultural drought detection using the normalized difference vegetation index and land surface temperature data	Ton Binh Minh
11:30-11:45	ACRS21_112	Assessing the affected area of typhoon-induced landslides and debris flows	Hsiao Hsuan, Chen
11:45-12:00	ACRS21_148	Application of CNN on Landslide Susceptibility Analysis: Case Study on 2018 Hokkaido Eastern Iburi Earthquake	Tanakorn Sritarapipat

Synthesis Session: **Assoc. Prof. Nguyen Thi Hong Diep****Assoc. Prof. Nguyen Hoang Khanh Linh**

Session 3: Algorithm and Image Processing (Room B3)Chairman: **Prof. Masafumi Nakagawa****Dr. Pham Thi Mai Thy**Link zoom: <https://us06web.zoom.us/j/8421575917?pwd=VnVmb1FPOUFVQTFBcnlUU3dDTU15UT09>

Meeting ID: 842 157 5917 Pass: ACRS42CTU

Time	Paper ID	Title	Speaker
10:00-10:15	ACRS21_087	Vehicle Detection from UAV Remote Sensing Images Using Deep Learning	Luwen Tan
10:15-10:30	ACRS21_097	Deep Learning for Semantic Segmentation of Coral Images in Underwater Photogrammetry	Ming Li
10:30-10:45	ACRS21_106	Study of terrestrial laser scanning intensity data for the bosscha observatory building's material classification	Gusti Ayu Jessy Kartini
10:45-11:00	ACRS21_108	Detection method of Convallaria keiskei using CNN and fuzzy c-means	Hikaru Shirai
11:00-11:15	ACRS21_121	Evaluation of atmospheric correction methods for Sentinel-2 imagery in the spectral identification of poplar (populus deltoides bartr.) species	Hidekazu Takahashi
11:15-11:30	ACRS21_067	Case study of GIS technology transfer and training in Cambodia for reconstruction assistance and friendship with Japan	Takehiko Ichikawa
11:30-11:45	ACRS21_125	LiDAR Scan Matching with PPP-RTK for 3D Farm Mapping	Masafumi Nakagawa
11:45-12:00	ACRS21_146	Applicable mean-shift filtering for weed mapping in cassava fields on UAV images	Apinya Boonrang

Synthesis Session: Prof. Masafumi Nakagawa**Dr. Pham Thi Mai Thy**

Session 4: Geographic Information Systems (GIS) and Web GIS (Room B4)Chairman: **Prof. Jojene R. Santillan****Assoc. Prof. Bui Ta Long**Link zoom: <https://us06web.zoom.us/j/87327228516?pwd=TE5DQjJzd0ovUmpBQjIjKS1MOT29oQT09>

Meeting ID: 873 2722 8516 Pass: ACRS42CTU

Time	Paper ID	Title	Speaker
10:00-10:15	ACRS21_162	Analysis of tourist behavior and interest by geotagged photos	Tetsuya Ebata
10:15-10:30	ACRS21_203	Geo-spatial big data analysis of covid-19 spectrum envelope of first and second wave of the outbreak in the Southeast Asian region	Arun Kumar Verma
10:30-10:45	ACRS21_217	MInDSEt: A geospatially enabled integrated data sharing environment for Mindanao, Philippines	Meriam Makinano-Santillan
10:45-11:00	ACRS21_219	Using maxent in finding suitable locations for establishing falcata tree plantations in Caraga region, Mindanao, Philippines	Arnaldo Gagula
11:00-11:15	ACRS21_220	Exploring the spatial linkages between tourist attraction location with surrounding facilities in Bandung city, Indonesia	Felix Malvian
11:15-11:30	ACRS21_221	The spatial and social patterning of health care facilities in Jakarta, Indonesia	Patricia Wijaya
11:30-11:45	ACRS21_229	Determination of high-risk municipality of COVID-19 case in Agusan Del Sur, Mindanao, Philippines using GIS approach	Arnaldo Gagula
11:45-12:00	ACRS21_241	Utilizing gis techniques for studying spatial distribution patterns of green logistics activities under pandemic situation: a case study in Thailand	Yaowaret Jantakat

Synthesis Session: Prof. Jojene R. Santillan**Assoc. Prof. Bui Ta Long**

Session 5: Remote Sensing & Mapping (Room B5)Chairman: **Dr. Alhaji Hussaini****Dr. Truong Chi Quang**Link zoom: <https://us06web.zoom.us/j/86257211879?pwd=TIBJaFdZSGZWd1ZVdG9tV05UUTA1dz09>

Meeting ID: 862 5721 1879 Pass: ACRS42CTU

Time	Paper ID	Title	Speaker
10:00-10:15	ACRS21_023	Estimation and Updating of Digital Surface Model (DSM) Using WorldView-3 Dataset	Indra Bahadur Chhetri
10:15-10:30	ACRS21_028	Comparative Investigation of Geomorphology by Aerial Photograph Interpretation (API), Digital Aerial Photograph Interpretation (DAPI) and Airborne Light Detection and Ranging (LiDAR) Survey: A Case Study in the Former Ma On Shan Open-pit Iron Mine	Gary Fung
10:30-10:45	ACRS21_031	Delineating rubber plantations in landslide prone areas of Kerala, India using remote sensing and GIS	Pradeep Balan
10:45-11:00	ACRS21_035	Automatic retrieval of railway masts tilt angle from Mobile Laser Scanning data	Atika Marwati
11:00-11:15	ACRS21_046	The estimation of urban expansion extent and fractal dimension (case of Khovd town, Mongolia)	Purevtseren Myagmartseren
11:15-11:30	ACRS21_052	An up-to-date geological map of Lake Chad in Central Africa using geospatial approach	Alhaji Hussaini
11:30-11:45	ACRS21_055	Correlation Model of Oil Palm Age Based on Optical and Radar Sensors	Moch Iqbal Fauzan
11:45-12:00	ACRS21_059	Study on MMS Point Cloud and UAV Images Fusion to Construct 3D Map	Mohammad Gholami Farkoushi

Synthesis Session: Dr. Alhaji Hussaini**Dr. Truong Chi Quang**

Session 6: Remote Sensing & Mapping (Room B6)**Chairman: Dr. Bruce Forster****Dr Chau Nguyen Xuan Quang**Link zoom: <https://us06web.zoom.us/j/9627023731?pwd=dkl2Qk1GMGp3TzFqWmFEcDZiOUNLQT09>

Meeting ID: 962 702 3731 Pass: ACRS42CTU

Time	Paper ID	Title	Speaker
10:00-10:15	ACRS21_160	Estimation of mangrove biomass using Landsat data on Google Earth Engine (GEE) platform	Alief Wiraguna Aseran
10:15-10:30	ACRS21_141	Land use/land cover detection at universiti putra Malaysia using Google Earth Engine	Vikneswaran Jeya Kumaran
10:30-10:45	ACRS21_050	Evaluation of satellite imagery data for crop yield simulation in Saraburi province, Thailand	Kulapramote Prathumchai
10:45-11:00	ACRS21_249	Uses of multi-date satellite images for monitoring of land cover changes over coal-fired power plant surrounded areas in the Quang Ninh province	Chu Hai Tung
11:00-11:15	ACRS21_184	Mapping and monitoring the rice crop in vietnam: experienced using RIICE technologies	Quang Chi Truong
11:15-11:30	ACRS21_261	NovaSAR AIS Data Product Post-Processing and Visualization	Samvram Sahu
11:30-11:45	ACRS21_115	Comparative assessment of rural development programmes in Panchayats of Himachal Pradesh using Geo-infomatics	Meher Kaushal
11:45-12:00	ACRS21_195	The calculation of the North Banten GEOID from gravity resolution of 5 by 5 km	Dadan Ramdani

Synthesis Session: Dr. Bruce Forster**Dr Chau Nguyen Xuan Quang**

PARALLEL SESSIONS (13:30-15:30, on 23rd November 2021)

Session 7: Sattellite Program Session (Room C1)		
Chairman: Dr. Sameer Saren Assoc. Prof. Vo Quoc Tuan		
Link zoom: https://zoom.us/j/2462825468?pwd=aFB5WlhDL2Q5MXRsb2lzM0puTEUyZz09		
Meeting ID: 246 282 5468 Pass: ACRS42CTU		
Time	Affiliation	Speaker
13:30-13:45	Aerospace Exploration Agency, (JAXA), Japan	Dr. Shinichi Sobue
13:45-14:00	Indian Space Research Organisation (ISRO), India	Dr. Shantanu Bhatawdekar
14:00-14:15	Korea Aerospace Research, Institute (KARI), Korea	Dr. Sun Gu Lee
14:15-14:30	National Space Program and EO activities (China)	Prof. Gu Xingfa
14:30-14:45	Vietnam National Space Center, Vletnam	Dr. Vu Anh Tuan
14:45-15:00	Maxar Technologies, Singapore	Mr. Abhineet Jain
15:00-15:15	Canon Electronics Inc., Japan	Dr. Nobutada Sako
15:15-15:30	Planet Labs Inc, USA	Mr. Jonathan Ong
Synthesis Session: Dr. Sameer Saren Assoc. Prof. Vo Quoc Tuan		

Session 8: Disaster Monitoring and Prevention (Room C2)			
Chairman: Prof. Vo Quang Minh Dr Anisara Pensuk			
Link zoom: https://us06web.zoom.us/j/4705556291?pwd=NGtZeHVSY1R3NWp2NStGNG1VYINudz09			
Meeting ID: 470 555 6291 Pass: ACRS42CTU			
Time	Paper ID	Title	Speaker
13:30-13:45	ACRS21_176	Combined satellite observation and modeling of waves in tropical cyclones	Maria Yurovskaya
13:45-14:00	ACRS21_180	Remote sensing of the impact of flash drought on vegetation dynamics over East Asia	Won-Ho Nam
14:00-14:15	ACRS21_198	Flood Risk Mapping Using GIS-Based Multi-Criteria Analysis: Songinokhairkhan District Case Study	Batbold Badamdorj

14:15-14:30	ACRS21_207	Extraction and Quantification of Burn Marks of War-Damaged trees Using the Reflectance from Terrestrial Laser Scanner	Taisei Koga
14:30-14:45	ACRS21_212	A study on evaluating recovery from forest fire in Mongolia using NDVI and NBR derived from Landsat OLI data	Oyuntsetseg Tsogtgerel
14:45-15:00	ACRS21_214	GIS-based vulnerability assessment of households to extreme rainfall induced flood hazard in Cabadbaran city	Lorie Cris Sanchez Asube
15:00-15:15	ACRS21_246	Application of SBAS-DInSAR technique to investigate the association between subsidence pattern, groundwater levels, and rainfall variations in Choushui River Alluvial Fan	Nguyen Thai Vinh Truong
15:15-15:30	ACRS21_040	Development of integrated SRA-based data visualization platform for the prediction and response of floods and droughts	Insun Park
Synthesis Session: Prof. Vo Quang Minh Dr Anisara Pensuk			

Session 9: Algorithm and Image Processing (Room C3) Chairman: Prof. Soo Chin Liew Assoc. Prof. Le Van Trung			
Link zoom: https://us06web.zoom.us/j/8421575917?pwd=VnVmb1FPOUFVQTFBcnlUU3dDTU15UT09 Meeting ID: 842 157 5917 Pass: ACRS42CTU			
Time	Paper ID	Title	Speaker
13:30-13:45	ACRS21_172	Surface Reflectance Correction using Constrained Harmonization for Optical Satellite Imagery	Lino Garda Denaro
13:45-14:00	ACRS21_174	Embedding Watermark on Digital Aerial Photo in GeoTiff Format using Discrete Wavelet Transform and Discrete Cosine Transform	Dadan Ramdhani
14:00-14:15	ACRS21_183	3D Object detection from mobile LIDAR point cloud with Deep Learning	Muhammed Enes Atik

14:15-14:30	ACRS21_194	Classification for urban sprawl analysis of mumbai metropolitan region (MMR)	Varsha Bhosale
14:30-14:45	ACRS21_201	Image Mosaicing for UAV-based Pushbroom Hyperspectral Imaging	Ralph Aaron S. Aguinaldo
14:45-15:00	ACRS21_240	Deep Learning-Based UAV Aerial Triangulation without Image Control Points	Jiageng Zhong
15:00-15:15	ACRS21_245	Estimating Fire Temperature with Short-Wave Infrared bands of high resolution satellites	Soo Chin Liew
15:15-15:30	ACRS21_250	An algorithm for the direct estimation of NDVI with Landsat TOA reflectance	Qingwei Wu
Synthesis Session: Prof. Soo Chin Liew Assoc. Prof. Le Van Trung			

Session 10: Environmental Domain (Room C4) Chairman: Dr. Khruewan Dr. Nguyen Thanh Giao			
Link zoom: https://us06web.zoom.us/j/87327228516?pwd=TE5DQjJzd0ovUmpBQjIjKS1MOT29oQT09 Meeting ID: 873 2722 8516 Pass: ACRS42CTU			
Time	Paper ID	Title	Speaker
13:30-13:45	ACRS21_024	Actionable Intelligence Policies (AIP) for waste management in the Eastern Economic Corridor (EEC), Thailand: Concepts, challenges, and opportunities	Khruewan Champangern
13:45-14:00	ACRS21_233	Carbon monoxide emissions monitoring during Covid-19 pandemic in Jakarta	Luisa Febrina Amalo
14:00-14:15	ACRS21_053	The retrieval of chlorophyll-a concentrations in inland waters using convolutional neural network on satellite images	Nguyen Van Manh
14:15-14:30	ACRS21_084	Range Forecasting of an Endangered Island Endemic Bird Species Using Ensemble Species Distribution Modeling	Isabella Pauline Quijano
14:30-14:45	ACRS21_088	Habitat suitability analysis of tigers using decision support system of Indian bio-resource information network (IBIN) portal in JIM corbett tiger reserve	Amrapali Tiwari

14:45-15:00	ACRS21_103	Analysis of forest cover changes in the Philippines from 2011-2020 using the Landsat global forest change product	Brent Fallarcuna
15:00-15:15	ACRS21_130	Delineating groundwater vulnerability in Metro Cebu using drastic model	Chito Lim Patiño
15:15-15:30	ACRS21_164	Erosion assessment in Lak district, Dak Lak province	Nguyen Huy Anh
Synthesis Session: Dr. Khruewan Dr. Nguyen Thanh Giao			

Session 11: Remote Sensing & Mapping (Room C5) Chairman: Prof. Taskin Kavzoglu Dr. Nguyen Thi Thanh Huong			
Link zoom: https://us06web.zoom.us/j/86257211879?pwd=TlBjaFdZSGZWd1ZVdG9tV05UUTA1dz09			
Meeting ID: 862 5721 1879 Pass: ACRS42CTU			
Time	Paper ID	Title	Speaker
13:30-13:45	ACRS21_069	A combination of Normalized Difference Vegetation Index and multi-temporal RADAR Vegetation Index of Sentinel data for Landuse/Landcover classification	Le Minh Hang
13:45-14:00	ACRS21_076	Analysis of the Relationship between Urban Heat Islands and Land Use by Remote Sensing Techniques (A case study of Colombo District, Sri Lanka)	Kahawala Pathirana Sulakshi Uthpala
14:00-14:15	ACRS21_081	Assessment of land surface temperature in dry and wet season using Sentinel imageries in Cameron highlands, Malaysia	Nurul Suliana Binti Ahmad Hazmi
14:15-14:30	ACRS21_101	A regional scale mapping of bamboo grove distribution using machine learning with multi-temporal Landsat-8 OLI imagery	Hiroto Shimazaki
14:30-14:45	ACRS21_109	Use of UAV Based Vegetation Indices for Mapping and Monitoring of Plant Health in Vietnam's Coffee Plantations	Tran Hung
14:45-15:00	ACRS21_120	Determination of marine mucilage formations using multitemporal Sentinel-2 imagery	Ismail Colkesen

15:00-15:15	ACRS21_168	Flood hazard mapping for a repeated flooding area in northern Thailand	Aphittha Yodying
15:15-15:30	ACRS21_044	Creation of virtual campus tour using UAV data: a case study for Gebze Technical University	Umut Gunes Sefercik
Synthesis Session: Prof. Taskin Kavzoglu Dr. Nguyen Thi Thanh Huong			

Session 12: Education and Training, GIS&RS applications (Room C6) Chairman: Dr. Le Trung Chon Dr. Phan Thanh Noi			
Link zoom: https://us06web.zoom.us/j/9627023731?pwd=dkl2Qk1GMGp3TzFqWmFEcDZiOUNLQT09 Meeting ID: 962 702 3731 Pass: ACRS42CTU			
Time	Paper ID	Title	Speaker
13:30-13:45	ACRS21_200	Moran's I Spatial Autocorrelation of COVID-19 Infection Rates: Is There Such in Butuan City?	Cheryl T. Gallor
13:45-14:00	ACRS21_070	Spatial analysis for free-grazing ducks: the study area at Pathum Thani, Thailand	Anisara Pensuk Tibkaew
14:00-14:15	ACRS21_075	Higher geometric accuracy using GPS derived ground control points for LULC analysis	Muhammad Yazrin Yasin
14:15-14:30	ACRS21_254	Estimation of tree height under transmission system using Interferometric SAR (InSAR)	Tamer ElGharbawi
14:30-14:45	ACRS21_187	Evaluation of Land Cover Changes Using DCP Validation Data	Yoshie Ishii
14:45-15:00	ACRS21_074	Examination of Time-series Generation Method of Satellite Data for Vegetation Mapping in a Cloudy Region	Hidetake Hirayama
15:00-15:15	ACRS21_181	Weed identification using vegetation indices and multispectral UAV imaging	Noor Asim
15:15-15:30	ACRS21_213	Human-Elephant Conflict Triggering Factors Identification using Fuzzy Logic Modelling	Noordiana Hassan
Synthesis Session: Dr. Le Trung Chon Dr. Phan Thanh Noi			

Day 3 (24th November 2021): ACRS Conference

Viet Nam Time	Contents
10:00-12:00	Parallel sessions: Technical Sessions (D-1,2,3,4,5,6)
12:00-13:30	Lunch Breaks
13:30-15:30	<p>Closing Ceremony</p> <p>Link zoom: https://zoom.us/j/2462825468?pwd=aFB5WlhDL2Q5MXRsb2IzM0puTEUyZz09 Meeting ID: 246 282 5468 Pass: ACRS42CTU</p>
	<p>Award Announcements:</p> <ul style="list-style-type: none"> - JSPRS Award sponsored by JSPRS, Japan - Innovation Award sponsored by CNCRS, China - Green Asia Award sponsored by CSPRS, China Taipei - Student Award sponsored by LOC
	Summary report of the ACRS
	The Advertisement for the 43 rd ACRS2021 by Mogolia
15:30-16:00	Tea/Coffee Breaks
16:00-18:00	<p>GRSS Tutorial</p> <p>Link zoom: https://zoom.us/j/2462825468?pwd=aFB5WlhDL2Q5MXRsb2IzM0puTEUyZz09 Meeting ID: 246 282 5468 Pass: ACRS42CTU</p> <p>Topic: "openEO and SAR2CUBE: Bringing SAR processing into the world of cloud computing" - Jacob Alexander from EURAC in Italy</p>

PARALLEL SESSIONS (24th November 2021)

Session 1: Algorithm and Image Processing (Room D1)			
Chairman: Dr. Tran Thanh Dan Dr. Brad Chen			
Link zoom: https://zoom.us/j/2462825468?pwd=aFB5WlhDL2Q5MXRsb2lzM0puTEUyZz09			
Meeting ID: 246 282 5468 Pass: ACRS42CTU			
Time	Paper ID	Title	Speaker
10:00-10:15	ACRS21_062	Identification of persistent infrared emitters in ASIA with VIIRS nightfire data: 2012-2020	Christopher D. Elvidge
10:15-10:30	ACRS21_078	Model-based point cloud reconstruction of excavation site for buried pipe management	Kouki Kurita
10:30-10:45	ACRS21_079	Point Cloud Reconstruction of Texture less Regions with Topology Constraints between Corresponding Points	Yuichiro Yamaguchi
10:45-11:00	ACRS21_223	A Web-based Application Utilizing Convolutional Neural Network (CNN) Method for Detecting Rice Plant Diseases in Butuan City, Philippines	Monalaine M. Bermoy
11:00-11:15	ACRS21_252	Estimation of Hot Mudflow Current using Long Term DInSAR	Josaphat Tetuko Sri Sumantyo
11:15-11:30	ACRS21_073	Motion detection and tracking in construction space using temporal point clouds	Gai Ozaki
11:30-11:45	ACRS21_056	Turntable-based and artificial texture aided photogrammetric 3D reconstruction and specification measurement of shuttlecock	Sih-Han Wang
11:45-12:00	ACRS21_102	Application comparison of 3D terrestrial laser scanning between terrain and non-terrain objects	Hanh Hong Tran
Synthesis Session: Dr. Tran Thanh Dan Dr. Brad Chen			

Session 2: Cloud Computing, Big data and AI in Remote Sensing (Room D2)

Chairman: Assoc. Prof. Huynh Xuan Hiep

Dr. Tolga Bakirman

Link zoom: <https://us06web.zoom.us/j/4705556291?pwd=NGtZeHVSY1R3NWp2NStGNG1VYlNudz09>

Meeting ID: 470 555 6291 Pass: ACRS42CTU

Time	Paper ID	Title	Speaker
10:00-10:15	ACRS21_027	Centroid-unet: detecting centroids in satellite images	Nawarathnag e Lakmal Deshapriya
10:15-10:30	ACRS21_068	Results of applying standardized methods of hydrographic data for stations 74162 - Son Tay - Vietnam	Hoang Quy Nhan
10:30-10:45	ACRS21_085	Ship detection and classification for KOMPSAT optical images using deep learning	Jae Young Chang
10:45-11:00	ACRS21_089	Applied Artificial Neural Network in the Spatial Prediction of Landslide Hazards case Study in the Red River Basin, Vietnam	Xuan Quang Truong
11:00-11:15	ACRS21_105	Urban land cover classification with very high resolution satellite imagery by machine learning	Chenghua Shi
11:15-11:30	ACRS21_143	Building Segmentation from VHR Aerial Imagery using DeepLabv3+ Architecture	Nuran Aslantas
11:30-11:45	ACRS21_192	Quantitative analysis of relationships among building density, height, land surface temperature, and population density in Tokyo	Xi Chen
11:45-12:00	ACRS21_260	Instantaneous Erythemal UV-B Retrieval with Moderate Resolution Imaging Spectroradiometer (MODIS) based on Machine Learning Methods	Ruixue Zhao

Synthesis Session: Assoc. Prof. Huynh Xuan Hiep

Dr. Tolga Bakirman

Session 3: Education and Training, GIS & RS applications (Room D3)

Chairman: Prof. Nguyen Kim Loi

Assoc. Prof. Soravis Supavetch

Link zoom: <https://us06web.zoom.us/j/8421575917?pwd=VnVmb1FPOUFVQTFBcnlUU3dDTU15UT09>

Meeting ID: 842 157 5917 Pass: ACRS42CTU

Time	Paper ID	Title	Speaker
10:00-10:15	ACRS21_134	Agricultural Land Monitoring on Amazon Web Service	Soravis Supavetch
10:15-10:30	ACRS21_001	The down converter in-house development phase2: Lesson and learning	Warinthorn Kiadtikornthaw eeyot Evans
10:30-10:45	ACRS21_093	Remote sensing for environmental education using Google Earth Engine	Tomohisa Koniahi
10:45-11:00	ACRS21_231	GIS-based site suitability analysis for the development of healthcare facilities in Tacloban city	Marian Stephanie R. Lao
11:00-11:15	ACRS21_026	Carbon monoxide emissions monitoring during Covid-19 pandemic in Jakarta	M Zainora Asmawi
11:15-11:30	ACRS21_080	Formulation of an environmental resilience index as an indicator of sustainability in Selangor, Malaysia	Prita Ayu Permatasari
11:30-11:45	ACRS21_119	Understanding the impact of riparian corridors on microclimate (Case study: Bogor City, Indonesia)	Vishal Kumar
11:45-12:00	ACRS21_139	Decision tree based classification and habitat suitability prediction of migratory birds	Tran Thi An

Synthesis Session: Prof. Nguyen Kim Loi

Assoc. Prof. Soravis Supavetch

Session 4: Environmental Domain (Room D4)			
Chairman: Prof. Kenji Iwama Assoc. Prof. Nguyen Van Cong			
Link zoom: https://us06web.zoom.us/j/87327228516?pwd=TE5DQjJzd0ovUmpBQjIKS1M0T29oQT09 Meeting ID: 873 2722 8516 Pass: ACRS42CTU			
Time	Paper ID	Title	Speaker
10:00-10:15	ACRS21_175	Analyzing the response of groundwater level to tidal wave in coastal aquifer, Taoyuan, Taiwan	Duong Quynh Thanh
10:15-10:30	ACRS21_210	Spatial distribution of soil organic carbon for sustainable forest conservation	Udhayan A.
10:30-10:45	ACRS21_215	Contribution of trees outside forests in mitigating climate change – a review	Anurag Mishra
10:45-11:00	ACRS21_216	Discussion about the risk control in Lake Biwa basin based on the landscape architecture	Kenji Iwama
11:00-11:15	ACRS21_230	Water quality assessment and mapping on marine fish cage sites in Nasipit, Agusan del norte, Philippines using remote sensing and GIS	Michelel V. Japitana
11:15-11:30	ACRS21_017	Maize Crop phenotyping for Disease resistance using UAV Multispectral data	Walter Chivasa
11:30-11:45	ACRS21_226	Sea surface ka-band doppler scatterometry at high wind speed: a field experiment	Yury Yurovsky
11:45-12:00	ACRS21_243	An approach for optimizing hydrological parameters at river basin scale using open sensor networks	Emeshi Jayani Warusavitharana
Synthesis Session: Prof. Kenji Iwama Assoc. Prof. Nguyen Van Cong			

Session 5: Remote Sensing & Mapping (Room D5)			
Chairman: Prof. Nguyen Ngoc Thach Prof. Michelle V. Japitana			
Link zoom: https://us06web.zoom.us/j/86257211879?pwd=TIBJaFdZSGZWd1ZVdG9tV05UUTA1dz09 Meeting ID: 862 5721 1879 Pass: ACRS42CTU			
Time	Paper ID	Title	Speaker
10:00-10:15	ACRS21_179	Analysis of Urban Heat Island and its relation with land use land cover in Nagaland, India	Kedovikho Yhoshu

10:15-10:30	ACRS21_196	Analysis of cloud-based NDVI trends of a country-wide forest restoration program	Kyle Pierre R. Israel
10:30-10:45	ACRS21_199	Utilization of hyperspectral data and machine learning algorithms for estimating chlorophyll contents in wasabi leaves	Adenan Yandra Nofrizal
10:45-11:00	ACRS21_227	Ten-year comparative analysis of infrastructure growth of state universities and colleges in Caraga region, Philippines using remote sensing and GIS	Michelle V. Japitana
11:00-11:15	ACRS21_237	Spatiotemporal epidemiology of Anthracnose-Twister disease of onion in production areas of Sto. Domingo, Nueva Ecija, Philippines	Dan Charlie Joy C. Pangilinan
11:15-11:30	ACRS21_251	SAR and optical sensor data fusion for earthquake damage assessment and analysis of the significant features	Gunjan Joshi
11:30-11:45	ACRS21_255	InSAR analysis of terrain deformation due to an ongoing series of collapse earthquakes in the central highlands of Sri Lanka	Duminda Ranganath Welikanna
11:45-12:00	ACRS21_090	SMAP and Sentinel-1 data assimilation to improve sugarcane growth monitoring	Anuphao Aobpaet
Synthesis Session: Prof. Nguyen Ngoc Thach Prof. Michelle V. Japitana			

Session 6: Remote Sensing & Mapping (Room D6) Chairman: Dr. Nguyen Thanh Son Prof. Umut Gunes Sefercik			
Link zoom: https://us06web.zoom.us/j/9627023731?pwd=dkl2Qk1GMGp3TzFqWmFEcDZiOUNLQT09 Meeting ID: 962 702 3731 Pass: ACRS42CTU			
Time	Paper ID	Title	Speaker
10:00-10:15	ACRS21_030	Demonstrational experiment for the early detection method of wandering dementia patients by using GNSS	Yoshiyuki Takumi
10:15-10:30	ACRS21_177	Spatial analysis of groundwater distribution and quality using GIS and remote sensing techniques (case study of Bolgoda river basin, Sri Lanka)	G.M.T.S.Fernando

10:30-10:45	ACRS21_169	Deforestation of Forest Types between 2009 and 2019 Along a Topographical Gradient Using Remotely Sensed Data in Cameron Highlands, Malaysia	Darren How Jin Aik
10:45-11:00	ACRS21_045	3D positioning accuracy and land cover classification performance of the UAVs: Case study of DJI Phantom IV multispectral RTK	Umut Gunes Sefercik
11:00-11:15	ACRS21_071	Performance improvement of visual odometry with imu-stereo camera for indoor UAV	Kazuha Saito
11:15-11:30	ACRS21_077	Urban river mapping by boat-based mobile laser scanning with PPP-RTK	Kimura Naoto
11:30-11:45	ACRS21_259	Application of Landsat imagery for the interpretation of surface water quality – A case study of De vong – Co co River, Quang Nam	Long Ta Bui
11:45-12:00	ACRS21_124	Research on forest cover change using Sentinel-2 images in combination with Sentinel-1 images on Google Earth Engine platform	Tran Van Anh
Synthesis Session: Dr. Nguyen Thanh Son Prof. Umut Gunes Sefercik			