



GeoInformatics for Spatial-Infrastructure Development in Earth and Allied Sciences



Hanoi University of
Natural Resources and Environment



Osaka
Metropolitan
University



Japan - Vietnam
Geoinformatics Consortium

AGENDA FOR INTERNATIONAL CONFERENCE GIS-IDEAS 2023

Conference name : GeoInformatics for Spatial-Infrastructure Development in Earth & Allied Sciences (GIS-IDEAS) 2023

Principal theme : Geospatial Integrated Technologies for Natural Hazards and Environmental Problems

Venue: Hanoi University of Natural Resources and Environment (HUNRE),
41 Phu Dien ward, Bac Tu Liem district, Hanoi capital, Vietnam

Time : 7 - 9, November 2023

+) 7 - 8, November 2023: International Conference at HUNRE

+) 9, November 2023 : one-day field trip

7th November 2023 (Tuesday)

PLENARY MORNING SESSION Conference room No.B706		
Time	Content	Speakers
8:00 - 8:30	Registration	HUNRE's staff
8:30 - 9:00	Art program	HUNRE's students
09:00 - 09:30	Opening Ceremony	Prof. Dr. Huynh Thi Lan Huong - Host HUNRE Prof. Venkatesh Raghavan - Host OMU Dr. Nghiem Vu Khai - the Founder of GIS IDEAS Representatives of MONRE's leaders
09:30 - 10:00	Keynote 01	Prof.Dr. Vo Chi My - Vice President of Vietnam Association of Geodesy - Cartography and Remote Sensing
10:00 - 10:30	Keynote 02	Prof. Venkatesh Raghavan Osaka Metropolitan University

10.30 - 10.50	Photo session & Break time			
THE INTERNATIONAL CONFERENCE PROGRAM				
Time	Title (Click on Title to see full-paper or abstract)	Speaker	Forms of present	Online/ Insite
Session 1: GIS for Spatial Analysis, Planning and Management Conference room No.B202				
Chairpersons: - <i>Assoc. Prof. Dr. Phi Truong Thanh, Hanoi University of Natural Resources and Environment</i> - <i>Dr. Chaiwiwat Vansarochana</i>				
10.50 - 11.05	<u>Automatic extraction of linear features from digital elevation model using edge extraction and hough transformation</u>	Venkatesh RAGHAVAN Tatsuya NEMOTO Shinji Masumoto	Presentation	Onsite
11.05 - 11.20	<u>Geospatial overview of the vegetation environment suggested by community level place names in the area of northeastern Thailand and northern Cambodia</u>	Yoshikatsu Nagata	Presentation	Onsite
11.20 - 11.35	<u>A combination of ALOS-2, Sentinel-1 imagery for rapid deforestation detection in Vietnam</u>	Ngo Duc Anh, Vu Anh Tuan, Truong Tuan Nghia	Presentation	Onsite
11.35 - 11.50	Geodiversity, Geoheritage and GIS	Natraj Vaddadi	Presentation	Onsite
11.50 - 13.30	Break time & Lunch			
Session 2: Integrated Technologies and AI: Prediction and Warning Natural Hazards and Environmental Protection Conference room No.B704				
Chairpersons: - <i>Assoc. Prof. Pham Quy Nhan, Hanoi University of Natural Resources and Environment</i> - <i>Dr. Susumu Nonogaki, Advanced Institute of Science and Technology</i>				
10.50 - 11.05	<u>SWASH model approach for flows induced by low-frequency waves over wooden fences</u>	Dao Hoang Tung, Vu Thi Thuy Ngan, Ngo Thi Thuy Anh	Presentation	Onsite
11.05 - 11.20	<u>Three-dimensional Building Model Using Drone Point Clouds</u>	Sawarin Lerk-u-suke, Phaisarn Jeefoo, Pornthep Rojanavas, Jirabhorn Chaiwongsai, Nakarin Chaikaew,	Presentation	Onsite

		Bowonsak Srisungsittisunti, Niti lamchuen, Wipop Paengwangthong, Boonsiri Sukpromsun, Watcharaporn Preedapirom Jeefoo, Praty Nuankaew, Jiraporn Kulsoontornrat, Suchatri Prasomsuk, Chatpong Pachanaparn, Pranorm Khruewan and Nootchararat Thawadee		
11.20 - 11.35	<u>Utilizing aquifer storage and recovery as a sustainable water supply solution for water-scarce regions in the Southern Plain, Vietnam</u>	Pham Quy Nhan, Le Viet Hung, Hoang Dai Phuc, Ta Thi Thoang, Tran Thanh Le, Nguyen Quang Son.	Presentation	Onsite
11.35 - 11.50	<u>Investigate SAR Intensity and optical images to rapidly detect small and medium landslides in Mu Cang Chai district Yen Bai Province</u>	Truong Xuan Quang Tran Van Anh Pham Thi Thanh Thuy Pham Hong Hai Nguyen Chi Cong Truong Van Anh Vasil Yordanov Truong Manh Dat	Presentation	Onsite
11.50 - 13.30	Break time & Lunch			
Session 3: GIS and Remote Sensing for Environment Majors: land, water, air,... Conference room No.B706				
Chairpersons: - Prof. Dr. Huynh Thi Lan Huong, Hanoi University of Natural Resources and Environment - Dr. Ho Dinh Duan, Japan-Vietnam Geoinformatics Consortium				
Time	Title (Click on Title to See full-paper or abstract)	Speaker	Forms of present	Online/ Insite
10.50 - 11.05	<u>Ba Lat delta evolution in response to changing fluvial sediment supply by the Red River (Vietnam)</u>	Nguyen Quang Hao	Presentation	Onsite

11.05 - 11.20	<u>Identification of Upwelling in the Marine Regions of Southern Centre of Vietnam by Remote Sensing Data</u>	Phan Minh Thu Ho Dinh Duan Nguyen Van Hung Le Thi Hai Nhu Tran Thi Hoa Tran Thanh Ha Truong Thi Cat Tuong Danh Mon	Presentation	Onsite
11.20 - 11.35	<u>Mangrove degradation assessment using WorldView-2 imagery for Mekong Delta, Vietnam</u>	Pham Hong Tinh Tran Dang Hung Truong Van Vinh Mai Huong Lam Nguyen Thi Hong Hanh Richard A.MacKenzie	Presentation	Onsite
11.35 - 11.50	<u>Application of machine learning techniques in assessing the importance of salinity indicators extracted from Landsat-8 OLI imagery</u>	Bui Duy Quynh, Hang Ha, Tran Xuan Truong, Chinh Luu	Presentation	Onsite
11.50 - 13.30	Break time & Lunch			
AFTERNOON SESSION				
POSTER SESSION Conference room No.B706				
Chairpersons:				
<ul style="list-style-type: none"> - <i>Dr. Truong Xuan Quang, Hanoi University of Natural Resources and Environment</i> - <i>Dr. Tatsuya Nemoto, Osaka Metropolitan University</i> - <i>Dr. Natraj Vaddadi, Centre for Education & Research in Geosciences</i> 				
13.30 - 15.15	POSTER SESSION			
No	Title (Click on Title to See full-paper or abstract)	Speaker	Forms of present	Online/ Insite
1	<u>Forecast of submarine landslides related to the reactive probability of the fault system in the Southeast Vietnam continental shelf and adjacent areas</u>	Tran Tuan Duong, Tran Tuan Dung, Nguyen Quang Minh, Tran Trong Lap	Poster	Onsite
2	<u>Digital Elevation Models (DEMs) Generated from Radar Remote Sensing, a Test Case of the Mekong Delta.</u>	Ha Quang Hung, Ha Phu Thinh	Poster	Onsite

3	<u>Monitoring urban expansion of the Hanoi area based on machine learning algorithms and multi-temporal satellite image data series</u>	Dang Thanh Tung, Nguyen Thanh Tung, Hoang Thi Thuy, Ta Minh Ngoc, Dinh Thi Thanh Huyen, Pham Chi Linh	Poster	Onsite
4	<u>Determination of the optimal density contrast in the seafloor depth inversion from gravity anomalies using the gravity-geologic method on the Central east sea</u>	Nguyen Dinh Hai, Tran Tuan Dung, Nguyen Van Sang	Poster	Onsite
5	<u>Monitoring surface water bodies changes from Sentinel-2A imagery with modified normalized difference water index: Application in Dalat, Lamdong, Vietnam</u>	Nguyen Van Trung, Le Thi Thu Ha	Poster	Onsite
6	<u>Monitoring the area and water level of the reservoir by remote sensing and GIS technology. Case study in Vu Gia – Thu Bon river basin</u>	Trinh Thi Hoai Thu Bui Thi Hong Tham	Poster	Onsite
7	<u>Application of Multi-Criteria Analysis and GIS in Centralized Solid Waste Disposal Sites Selection in HaNoi</u>	Pham Thi Thanh Thuy Le Thi Thu Ha Luong Thanh Thach Do Mai Quyen	Poster	Onsite
8	<u>Utilization of Borehole Data for Correlation System of Strata - A Case Study of Hanoi, Vietnam.</u>	Kenichi SAKURAI Go YONEZAWA Luan Xuan Truong Tatsuya NEMOTO Shinji MASUMOTO	Poster	Onsite
9	<u>Characterization of topographic changes due to rainfall induced slope failure using LiDAR data</u>	Mitsunori UEDA, Tatsuya NEMOTO, Mitunori UEDA	Poster	Onsite
10	<u>Tsunami Evacuation Simulation Using Multi-Agent System: A Case Study of Wajima City, Ishikawa Prefecture, Japan</u>	Tatsuya NEMOTO Aoi SATO Venkatesh RAGHAVAN	Poster	Onsite
11	<u>Detection of land surface temperature change in coal mining area using remote sensing and GIS techniques - A case study in Quang Ninh</u>	Le Thi Thu Ha, Nguyen Van Trung	Poster	Onsite

12	<u>Application of Random Forest Algorithm and Google Colab for land cover classification</u>	Hoa Thanh Thi Pham, Ngoc Quang Vu, Phuong Nam Thi Doan, Nghi Thanh Le	Poster	Onsite
13	<u>Application of AHP model to establish a landslide probability zoning map in A Luoi district, Thua Thien Hue province, Vietnam</u>	Nguyen Thi Thuy Hanh, Quach Thi Chuc	Poster	Onsite
14	<u>Flood Susceptibility Mapping Based on AHP and Ranking Method with Remote Sensing and GIS Techniques on Ca River Basin</u>	Nguyen Tien Quang, Hoang Van Dai, Truong Van Anh, Le Thi Thuong	Poster	Onsite
15	<u>The method of risk prediction, landslide identification for the resettlement sites of the Sonla hydropower plant</u>	Phung Vinh An, Nguyen Van Thang	Poster	Onsite
16	<u>Effects of constructions on submerged reefs on wave characteristics</u>	Ho Duc Dat, Nguyen Quang Tao, Nguyen Trung Dung, Nguyen Van Bau, Dao Hoang Tung, Dinh Quang Cuong	Poster	Onsite
17	<u>Effects of the strong El Nino 2015-2016 on the surface salinity over the Southern Vietnam as observed by remote sensing data</u>	Le Van Thien	Poster	Onsite
18	<u>Assessment of forest change patterns in the Northwestern of Vietnam using remote sensing and landscape metrics</u>	Pham Minh Hai, Pham Hong Tinh, Bui Quang Thanh, Pham Manh Ha, Vu Ngoc Phan	Poster	Onsite
19	<u>Building a 3D Information Model for Underground Coal Mines</u>	Pham Van Chung, Cao Xuan Cuong, Le Van Canh, Nguyen Quoc Long, Le Thi Thu Ha, Nguyen Viet Nghia	Poster	Onsite
20	<u>Estimation of Land Surface Temperature and Vegetation Dryness Index (TVDI) in Bac Binh – Binh Thuan using remote sensing images</u>	Linh Nguyen Thi Thuy, Minh Hoang Thi Nguyet, Linh Phung Thi	Poster	Onsite

21	Rock deterioration risk assessment for limestone geosites at Dam Thuy area of Non Nuoc Cao Bang geopark, Vietnam using TOPSIS approach	Nguyen Quoc Phi, Vu Thi Phuong Thao, Nguyen Thi Hoa, Le Huynh Duc, Tran Thi Thu Ha, Phi Truong Thanh, Van Duc Tung	Poster	Onsite
22	<u>Remote sensing and GIS application to map the surface temperature of Phu Tho province</u>	Tran Thi Ngoan	Poster	Onsite
23	<u>Assessment of the dynamic impact of debris flow on structure safety: A case study of check dam in Viet Nam</u>	Nguyen Chi Thanh Vu Quoc Cong Vu Le Minh Do Van Chinh Tran Thi Nga Luyen Le Dieu Linh	Poster	Onsite
24	<u>Assessing the risk of landslides using GIS application in Krong Bong district, Dak Lak province, Vietnam</u>	Nguyen Huy Anh, Anh Nguyen Trinh Minh, Trong Tran Van	Poster	Onsite
25	<u>A GIS techniques Application for Assessing the Spatial Variation of Groundwater Recharge: A case study in The Transboundary Cambodia-Mekong River Delta Aquifer</u>	Ninh Thi Kieu Anh, Sangam Shrestha, Vankatesh Raghavan	Poster	
26	<u>Drought monitoring using MODIS data and the Google Earth engine platform, case study in Dak Lak province</u>	Nguyen Ngoc Anh, Hoang Ngoc Khac	Poster	Onsite
27	<u>Applying machine learning algorithms to classify forest cover type from Sentinel 2 MSI data</u>	Trinh Le Hung, Tran Xuan Bien, Pham The Trinh, Le Van Phu	Poster	
28	<u>Distribution, fate and ecological toxicity of some heavy metals in sediments: A case study from Day river downstream, Vietnam</u>	Nguyen Khanh Linh, Trinh Thi Tham, Kieu Thi Thu Trang, Nguyen Thi Linh Giang, Tu Binh Minh Luu Duc Hai, Le Thi Trinh.	Poster	Onsite
29	<u>Application for GIS technology to comparison of ordinary least squares and geographically weighted regression model in</u>	Le Huu Ngoc Thanh, Nguyen Huu Ngu, Pham Thi Thao	Poster	Onsite

	<u>the assessment of the market residence land in Thuy Van ward, Hue city, Vietnam</u>	Hien, Duong Quoc Non		
30	<u>Regional post-earthquake damage estimation and prediction using Gaussian geostatistical simulation</u>	Sunanthacha Polkerd, Pathana Rachavong, Tanyaluck Chansombat	Poster	Onsite
31	<u>Optimizing broiler house management to reduce costs and reduce losses with the Internet of Things technology and wireless sensor</u>	Sittichai Choosumrong, Rhutairat Hataitara, Kampanart Piyathamrongchai, Tossaporn Inchroen, Vankatesh Raghavan, Thanwas Phasinam, Khongdet Phasinam	Poster	Onsite
32	<u>DEM generation and topographic changes of central Hanoi, Vietnam</u>	Go Yonezawa, Tatsuya Nemoto, Xuan Luan Truong, Susumu Nonogaki, Do Thi Hang, Muneki Mitamura, Venkatesh Raghavan	Poster	Onsite
15.15 - 15.30	Break time			
15.30 - 17.00	PRESENTATION SESSIONS			
Session 1: GIS for Spatial Analysis, Planning and Management Conference room No.B202				
Chairpersons: - <i>Assoc. Prof. Dr. Phi Truong Thanh, Hanoi University of Natural Resources and Environment</i> - <i>Dr. Kampanart Piyathamrongchai, Naresuan University</i>				
Time	Title (Click on Title to see full-paper or abstract)	Speaker	Forms of present	Online/ Insite
15.30 - 15.45	<u>Development of WebGIS for inventory of Vietnam marine protected areas</u>	Van Ngoc Truc Phuong	Presentation	Online
15.45 - 16.00	<u>WebGL-based visualization tool for 3D geological structures in shallow subsurface in urban areas</u>	Susumu NONOGAKI Tsutomu NAKAZAWA	Presentation	Onsite

16.00 - 16.15	<u>Remote sensing application using Google Earth platform to assess crop burn areas in winter-spring rice crop in the Mekong delta, Vietnam</u>	Tran Van Dung Lam Dao Nguyen Hoang Phi Phung Dang Pham Bao Nghi Pham Thy Mai Thy	Presentation	Onsite
16.15 - 16.30	<u>Surface displacement monitoring utilizing Sentinel-1 time series images and leveling survey data in Hanoi's inner city</u>	Le Minh Hang, Bui Thi Hong Tham, Tran Van Anh, Do Thi Hoai	Presentation	Onsite
16.30 – 16.45	<u>Integrated GIS and modelling approaches for developing a flood forecast information system in the small river</u>	Truong Van Anh, Truong Xuan Quang, Duong Anh Quan, Nguyen Dinh Hoang	Presentation	Onsite
16.45 - 17.00	Time for Q&A			
Session 2: Integrated Technologies and AI: Prediction and Warning Natural Hazards and Environmental Protection Conference room No.B704				
Chairpersons: - <i>Dr. Truong Van Anh, Hanoi University of Natural Resources and Environment</i> - <i>Prof. Go Yonezawa, Osaka Metropolitan University</i>				
15.30 - 15.45	<u>Development of water level measuring sensor prototype equipment for analysis and alerting flood risk situations in the form of a 3D simulator on a Web GIS application</u>	Natima Udon, Kampanart Piyathamrongchai, Sittichai Choosumrong	Presentation	
15.45 - 16.00	<u>Drought hazard analysis using SPI index and GIS-based Analytical Hierarchy Process in the Cai-Phan Rang River Basin, South-Central Coast of Vietnam</u>	Hoang Le Huong, Rex Victor O. Cruz, Juan M. Pulhin, Roger A. Luyun, Nathaniel C. Bantayan	Presentation	Onsite
16.00 - 16.15	<u>Developing Voxel-based 3D GIS for GHG Emission Inventories</u>	Kapil Chaudhery	Presentation	Onsite
16.15 - 16.30	Mapping aquaculture regions with Spot6 Images in coastal water of Ba Ria - Vung Tau, Vietnam	Phan Minh-Thu Nguyen Van Hung Le Thi Hai Nhu, Ho Dinh Duan Nguyen Van Hoang Nguyen Minh Giam	Presentation	Onsite

16.30 - 16.45	<u>Impact of urbanization on sea water quality in Quang Ninh province</u>	Nguyen Tran Dinh Le Thanh Son Nguyen Tran Dien Vu Anh Tuan Nguyen Hong Quang	Presentation	Onsite
16.45 - 17.00	Time for Q&A			
Session 3: GIS and Remote Sensing for Environment Majors: land, water, air,... Conference room No.B706				
Chairpersons:				
<ul style="list-style-type: none"> - Prof. Dr. Huynh Thi Lan Huong, Hanoi University of Natural Resources and Environment - Prof. Venkatesh Raghavan, Osaka Metropolitan University 				
Time	Title (Click on Title to See full-paper or abstract)	Speaker	Forms of present	Online/ Insite
15.30 - 15.45	<u>Diffusion of exhaust gases from waste-to-energy plant: Model and field monitoring</u>	Vu Van Doanh, Khuat Thi Hong, Le Tran Duong, Pham Phuong Thao, Ngo Tra Mai, Le Van Linh, Le Thi Trinh, Thao Ly Do, Trinh Thi Tham	Presentation	Onsite
15.45 - 16.00	<u>Investigating spatiotemporal variations of suspended particulate matter and turbidity in lakes with Sentinel-2 imagery: the case of Varese Lake (Italy)</u>	Afshin Moazzam, Maria Antonia Brovelli, Mariano Bresciani	Presentation	Online
16.00 - 16.15	<u>Evaluating the scope of coastal erosion in the Mekong Delta from Bac Lieu to Ca Mau Cape using remote sensing and GIS</u>	Quynh Le, Duyen Nguyen, Long Bui Ta	Presentation	Onsite
16.15 - 16.30	<u>Solution of low-cost GNSS RTK network for realtime deformation monitoring</u>	Duong Thanh Trung, Do Van Duong	Presentation	Onsite
16.30 - 16.45	<u>A novel approach of neural networks and usle in smart soil erosion modeling, case study in southern coastal of Vietnam</u>	Hoa Thi Tran Ha Tran Thanh Thu Minh Phan Hung Van Nguyen	Presentation	Onsite
16.45 - 17.00	Time for Q&A			

8th November, 2023 (Wednesday)

Time	Title (Click on Title to See full-paper or abstract)	Speaker	Forms of present	Online/ Insite
Session 1: GIS for Spatial Analysis, Planning and Management Conference room No.B202				
Chairpersons: - <i>Dr. Ha Quang Hung, Fulbright University Vietnam</i> - <i>Dr. Sittichai Chuusumroung</i>				
9.00 - 9.15	<u>Presenting of the military terrain analysis between Thailand and Myanmar's historical battlefield, over 200 years (the 9-armies war) with Geo-Informatic techniques</u>	Kittitouch Naksri, Chaiiwat Vansarochana	Presentation	Onsite
9.15 - 9.30	<u>Thailand COVID-19 Case Fatality Spatial Cluster & Direction Analysis</u>	Athitaya Sakunmungmee, Tanyaluck Chansombat, and Pathana Rachavong	Presentation	Onsite
9.30 - 9.45	<u>Spatial - Temporal Analysis Of No2 Concentration in Binh Duong Province, Vietnam</u>	Tran Thi An Nguyen Thi Bich Ngoc Pham Thi Mai Thy Nguyen Le Tan Dat	Presentation	Onsite
9.45 - 10.00	<u>Application of interferometric synthetic aperture radar (INSAR) data in assessing land subsidence resulting from human factors in Ninh Binh province, Vietnam</u>	Nguyen Mai Lan, Lai Hop Phong, Nguyen Duc Anh	Presentation	Onsite
10.00 - 10.15	<u>Co-registration of PRISMA Hyperspectral Imagery for Accurate land cover classification</u>	Qiongjie Xu, Vasil Yordanov, Xuan Truong Tran, Xuan Quang Truong, Ludovico Biagi, Maria Antonia Brovelli	Presentation	Online/ Onsite
10.15 - 10.45	Break time			
10.45 - 11.00	<u>Application of GIS to build a land database: A case study of Moc Chau district, Son La province</u>	Tran Hong Hanh, Nguyen Tien Duong	Presentation	Online/O nsite
11.00 - 11.15	<u>Quantitative correlation of fracture orientation distribution and their relationship with tectonic characteristics in Nam</u>	Phi Truong Thanh, Vu Thi Hong Cam, Do Manh Tuan, Nguyen Quang	Presentation	Onsite

Time	Title (Click on Title to See full-paper or abstract)	Speaker	Forms of present	Online/ Insite
	<u>Du archipelago area, Kien Hai district, Kien Giang province, Vietnam</u>	Minh, Van Duc Tung		
11.15 - 12.00	Time for Q&A			
12.00 - 13.30	Break time & Lunch			
Session 2: Integrated Technologies and AI: Prediction and Warning Natural Hazards and Environmental Protection Conference room No.B704				
Chairpersons: - <i>Assoc. Prof. Pham Quy Nhan, Hanoi University of Natural Resources and Environment</i> - <i>Dr. Sarawut Ninsawat, Asian Institute of Technology</i>				
9.00 - 9.15	<u>The relative importance of driving factors of aerosol optical depth in Hanoi city using remotely sensed imagery and a multilayer perceptron model</u>	Nguyen Tien Thanh Hoang Anh Huy Vu Danh Tuyen	Presentation	Onsite
9.15 - 9.30	<u>Spatial prediction of rainfall-induced landslides using fast decision tree learner by Reduced Error Pruning (REP) for the mountainous area of Nguyen Binh County, Cao Bang Province, Vietnam</u>	Nguyen Quoc Phi, Phan Thi Mai Hoa, Nguyen Thi Cuc, Nguyen Minh Quang, Nguyen Thu PHuong, Phi Truong Thanh, Truong Xuan Quang	Presentation	Onsite
9.30 - 9.45	<u>Impacts of urbanization and population growth on land cover and coastline changes based on remote sensing and GIS technique for Vietnamese coastal regions</u>	Le Thi Thu Hang, Nguyen Hong Quang, Vu Anh Tuan, Nguyen Manh Hung, Nguyen Thi Phuong Hao	Presentation	Onsite
9.45 - 10.00	<u>Evaluation of Groundwater Loss from the Holocene Aquifer at the Coastal Sand Dune of An Hoa Hai Commune - Tuy An District - Phu Yen Province - Vietnam</u>	Nguyen Thanh Cong; Vu Dinh Hung; Nguyen Huy Vuong; Phan Viet Dung; Pham Tuan; Vu Ba Thao, Nguyen Tiep Tan	Presentation	Onsite
10.00 - 10.30	Break time			
10.30 - 10.45	<u>Colorization of black-and-white aerial photographs using deep</u>	Arunothai Waesonthea	Presentation	Onsite

Time	Title (Click on Title to See full-paper or abstract)	Speaker	Forms of present	Online/ Insite
	<u>learning for object-based image analysis land use classification</u>	Sarawut Ninsawat Nitin Kumar Tripathi Sanit Arunplod Thantham Khamyai		
10.45 - 11.00	<u>Geospatial approach for assessment of high conservation value forest carbon stocks in tropical regions: A case study in Bac Kan province</u>	Do Thi Nhung, Nguyen Thu Ha, Lam Phuong Do Dang, Diem My Thi Nguyen, Quang Thanh Bui, Van Manh Pham	Presentation	Onsite
11.00 - 12.00	Time for Q&A			
12.00 - 13.30	Break time & Lunch			
PLENARY AFTERNOON SESSION Conference room No.B706				
Time	Contents	Speakers		
13.30 - 14.00	Keynote 03: <u>Water governance and transboundary data sharing in the lower Mekong region. A case study of Yali Hydropower Dam, Vietnam.</u>	Dr. Ha Quang Hung		
14.00 - 14.30	Keynote 04	Dr. Truong Xuan Quang		
14.30 - 14.50	Summary 1	Chairpersons of session 1		
14.50 - 15.10	Summary 2	Chairpersons of session 2		
15.10 - 15.30	Summary 3	Chairpersons of session 3		
15.30 - 16.00	Break time			
16.00 - 16.20	Annoucement the best poster and presentation of GIS IDEAS 2023 & Award the prize	Representatives of the Organizing Committee		
16.20 - 16.30	Closing Ceremony	Prof. Dr. Huynh Thi Lan Huong - HUNRE Prof. Venkatesh Raghavan - OMU		