



# 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

### OVERVIEW of THE CONFERENCE GIS IDEAS 2023

Date	Time	Content
07/11/2023	08.00 - 10.30	Plenary morning session
	10.50 - 11.50	Three oral parallel sessions B202 - Session 1; B704 - Session 2; B706 - Session 3
	11.50 - 13.30	Break & Lunch
	13.30 - 15.15	Poster session
	15.30 - 17.00	Three oral parallel sessions (Cont.) B202 - Session 1; B704 - Session 2; B706 - Session 3
07/11/2023	18.00 - 20.00	<b>Welcome Party</b> We are pleased to invite all guests to the welcome party
08/11/2023	09.00 - 12.00	Two oral parallel sessions B202 - Session 1; B704 - Session 2
	13.30 - 16.30	Plenary afternoon session
09/11/2023	08.00 - 17.00	One-day fieldtrip

*7<sup>th</sup> November 2023 (Tuesday)*

**PLENARY MORNING SESSION**  
Conference room No.B706

Time	Content	Speakers
8:00 - 08:30	Registration	HUNRE's staff
8:30 - 09:00	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
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
<b>10.30 - 10.50</b>	<b>Photo session &amp; Break time</b>	

**THE INTERNATIONAL CONFERENCE PROGRAM**

Time	Title (Click on title to see abstract)	Speaker	Forms of present
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**Session 1: GIS for Spatial Analysis, Planning and Management**  
Conference room No.B202

**Chairpersons:**

- *Assoc. Prof. Dr. Phi Truong Thanh, HUNRE*
- *Dr. Chaiwiwat Vansarochana*

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	<u>Geodiversity, Geoheritage and GIS</u>	Natraj Vaddadi	Presentation	Onsite
<b>11.50 - 13.30</b>	<b>Break time &amp; Lunch</b>			

**Session 2: Integrated technologies and AI: Prediction and Warning Natural Hazards and Environmental Protection**

Conference room No.B704

**Chairpersons:**

- *Assoc. Prof. Pham Quy Nhan, Hanoi University of Natural Resources and Environment*
- *Dr. Susumu Nonogaki, Advanced Institute of Science and Technology*

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>	Phaisarn Jeefoo Sawarin Lerk-u-suke Pornthep Rojanavasu Jirabhorn Chaiwongsan Nakarin Chaikaew Bowonsak Srisungsittisunti Niti Iamchuen Wipop Paengwangthong Boonsiri Sukpromsun Watcharapron Preedapirom Jeefoo Pratya Nuankaew Jiraporn Kulsoontornrat Suchatri Prasomsuk, Chatpong Pachanaparn Pranorm Khrueawan Nootchararat Thawadee	Presentation	Onsite
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>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

**11.50 - 13.30**

**Break time & Lunch**

**Session 3: GIS and Remote Sensing for Environment Majors: land, water, air,...**

Conference room No.B706

<b>Chairpersons:</b> - 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 abstract)	Speaker	Forms of present	
10.50 - 11.05	<a href="#"><u>Ba Lat delta evolution in response to changing fluvial sediment supply by the Red River (Vietnam)</u></a>	Nguyen Quang Hao	Presentation	Onsite
11.05 - 11.20	<a href="#"><u>Identification of Upwelling in the Marine Regions of Southern Centre of Vietnam by Remote Sensing Data</u></a>	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	<a href="#"><u>Mangrove degradation assessment using WorldView-2 imagery for Mekong Delta, Vietnam</u></a>	Pham Hong Tinh Tran Dang Hung Richard A.MacKenzie Truong Van Vinh Bui Thanh Huyen Mai Huong Lam Nguyen Thi Hong Hanh	Presentation	Onsite
11.35 - 11.50	<a href="#"><u>Application of machine learning techniques in assessing the importance of salinity indicators extracted from Landsat-8 OLI imagery</u></a>	Bui Duy Quynh Hang Ha Tran Xuan Truong Chinh Luu	Presentation	Onsite
<b>11.50 - 13.30</b>	<b>Break time &amp; Lunch</b>			
<b>AFTERNOON SESSION</b>				
<b>POSTER SESSION</b> Conference room No.B706				
<b>Chairpersons:</b> - Assoc. Prof. Dr. Le Thi Trinh, Hanoi University of Natural Resources and Environment - Dr. Truong Xuan Quang, Hanoi University of Natural Resources and Environment - Dr. Tatsuya Nemoto, Osaka Metropolitan University - Dr. Natraj Vaddadi, Centre for Education & Research in Geosciences				
<b>13.30 - 15.15</b>	<b>POSTER SESSION</b>			
No	Title (Click on title to see abstract)	Speaker	Forms of present	
1	<a href="#"><u>Forecast of submarine landslides related to the reactive probability of the fault system in the Southeast</u></a>	Tran Tuan Duong Tran Tuan Dung Nguyen Quang Minh Tran Trong Lap	Poster	Onsite

	<u>Vietnam continental shelf and adjacent areas</u>			
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</u>	Tatsuya NEMOTO Aoi SATO Venkatesh RAGHAVAN	Poster	Onsite

	<u>Wajima City, Ishikawa Prefecture, Japan</u>			
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 Nghien 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	Poster	Onsite

		Le Thi Thu Ha Nguyen Viet Nghia		
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	<u>Rock deterioration risk assessment for limestone geosites at Dam Thuy area of Non Nuoc Cao Bang geopark, Vietnam using TOPSIS approach</u>	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>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
26	<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	Onsite
27	<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
28	<u>Application for GIS technology to comparison of ordinary least squares and</u>	Le Huu Ngoc Thanh Nguyen Huu Ngu	Poster	Onsite

	<u>geographically weighted regression model in the assessment of the market residence land in Thuy Van ward, Hue city, Vietnam</u>	Pham Thi Thao Hien Duong Quoc Non		
29	<u>Regional post-earthquake damage estimation and prediction using Gaussian geostatistical simulation</u>	Sunanthacha Polkerd Pathana Rachavong Tanyaluck Chansombat	Poster	Onsite
30	<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
31	<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
<b>15.15 - 15.30</b>	<b>Break time</b>			
<b>15.30 - 17.00</b>	<b>PRESENTATION SESSIONS</b>			
<b>Session 1: GIS for Spatial Analysis, Planning and Management</b> Conference room No.B202				
<b>Chairpersons:</b>				
- <i>Assoc. Prof. Dr. Phi Truong Thanh, HUNRE</i>				
- <i>Dr. Kampanart Piyathamrongchai, Naresuan University</i>				
<b>Time</b>	<b>Title</b> (Click on title to see abstract)	<b>Speaker</b>	<b>Forms of present</b>	
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	Online



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>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
<b>16.45 - 17.00</b>	<b>Time for Q&amp;A</b>			
<b>Session 2: Integrated technologies and AI: Prediction and Warning Natural Hazards and Environmental Protection</b> Conference room No.B704				
<b>Chairpersons:</b>				
<ul style="list-style-type: none"> <li>- <i>Dr. Truong Van Anh, Hanoi University of Natural Resources and Environment</i></li> <li>- <i>Prof. Go Yonezawa, Osaka Metropolitan University</i></li> </ul>				
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	Onsite
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	<u>Mapping aquaculture regions with Spot6 Images in coastal water of Ba Ria - Vung Tau, Vietnam</u>	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	<b>Time for Q&amp;A</b>			
<b>Session 3: GIS and Remote sensing for Environment Majors: land, water, air,...</b> Conference room No.B706				
<b>Chairpersons:</b> - <i>Prof. Dr. Huynh Thi Lan Huong, Hanoi University of Natural Resources and Environment</i> - <i>Prof. Venkatesh Raghavan, Osaka Metropolitan University</i>				
Time	Title (Click on title to see abstract)	Speaker	Forms of present	
15.30 - 15.45	<u><a href="#">Diffusion of exhaust gases from waste-to-energy plant: Model and field monitoring</a></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><a href="#">Investigating spatiotemporal variations of suspended particulate matter and turbidity in lakes with Sentinel-2 imagery: the case of Varese Lake (Italy)</a></u>	Afshin Moazzam Maria Antonia Brovelli Mariano Bresciani	Presentation	Online
16.00 - 16.15	<u><a href="#">Evaluating the scope of coastal erosion in the Mekong Delta from Bac Lieu to Ca Mau Cape using remote sensing and GIS</a></u>	Quynh Le Duyen Nguyen Long Bui Ta	Presentation	Onsite
16.15 - 16.30	<u><a href="#">Solution of low-cost GNSS RTK network for realtime deformation monitoring</a></u>	Duong Thanh Trung, Do Van Duong	Presentation	Onsite
16.30 - 16.45	<u><a href="#">A novel approach of neural networks and usle in smart soil erosion modeling, case study in southern coastal of Vietnam</a></u>	Hoa Thi Tran Ha Tran Thanh Thu Minh Phan Hung Van Nguyen	Presentation	Onsite
16.45 - 17.00	<b>Time for Q&amp;A</b>			

*8th November, 2023 (Wednesday)*

Time	Title (Click on title to see abstract)	Speaker	Forms of present	
<b>Session 1. GIS for Spatial Analysis, Planning and Management</b> Conference room No.B202				
<b>Chairpersons:</b> - <i>Dr. Ha Quang Hung, Fulbright University Vietnam</i> - <i>Dr. Sittichai Choosumrong</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 Chaiwiwat Vansarochana	Presentation	Onsite
9.15 - 9.30	<u>Thailand COVID-19 Case Fatality Spatial Cluster &amp; Direction Analysis</u>	Athitaya Sakunmungmee Tanyaluck Chansombat 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
<b>10.15 - 10.45</b>	<b>Break time</b>			
10.45 - 11.00	<u>Quantitative correlation of fracture orientation distribution and their relationship with tectonic characteristics in Nam Du archipelago area, Kien Hai</u>	Phi Truong Thanh Vu Ngoc Binh Van Duc Tung Nguyen Quang Minh Do Manh Tuan	Presentation	Onsite

<b>Time</b>	<b>Title</b> (Click on title to see abstract)	<b>Speaker</b>	<b>Forms of present</b>	
	<a href="#"><u>district, Kien Giang province, Vietnam</u></a>	Vu Thi Hong Cam		
11.00 - 11.15	<a href="#"><u>Application of GIS to build a land database: A case study of Moc Chau district, Son La province</u></a>	Tran Hong Hanh Nguyen Tien Duong	Presentation	Online
<b>11.15 - 12.00</b>	<b>Time for Q&amp;A</b>			
<b>12.00 - 13.30</b>	<b>Break time &amp; Lunch</b>			
<b>Session 2: Integrated technologies and AI: Prediction and Warning Natural Hazards and Environmental Protection</b> <i>Conference room No.B704</i>				
<b>Chairpersons:</b> <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	<a href="#"><u>The relative importance of driving factors of aerosol optical depth in Hanoi city using remotely sensed imagery and a multilayer perceptron model</u></a>	Nguyen Tien Thanh Hoang Anh Huy Vu Danh Tuyen	Presentation	Onsite
9.15 - 9.30	<a href="#"><u>Integrated GIS and modelling approaches for developing a flood forecast information system in the small river</u></a>	Truong Van Anh Truong Xuan Quang Duong Anh Quan Nguyen Dinh Hoang	Presentation	Onsite
9.30 - 9.45	<a href="#"><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></a>	Le Thi Thu Hang Nguyen Hong Quang Vu Anh Tuan Nguyen Manh Hung Nguyen Thi Phuong Hao	Presentation	Onsite
9.45 - 10.00	<a href="#"><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></a>	Nguyen Thanh Cong Vu Dinh Hung Nguyen Huy Vuong Phan Viet Dung Pham Tuan Vu Ba Thao Nguyen Tiep Tan	Presentation	Onsite
<b>10.00 - 10.30</b>	<b>Break time</b>			

<b>Time</b>	<b>Title</b> (Click on title to see abstract)	<b>Speaker</b>	<b>Forms of present</b>	
10.30 - 10.45	<a href="#"><u>Colorization of black-and-white aerial photographs using deep learning for object-based image analysis land use classification</u></a>	Arunothai Waesonthea Sarawut Ninsawat Nitin Kumar Tripathi Sanit Arunplod Thantham Khamyai	Presentation	Onsite
10.45 - 11.00	<a href="#"><u>Geospatial approach for assessment of high conservation value forest carbon stocks in tropical regions: A case study in Bac Kan province</u></a>	Do Thi Nhung Nguyen Thu Ha Lam Phuong Do Dang Diem My Thi Nguyen Quang Thanh Bui Van Manh Pham	Presentation	Onsite
<b>11.00 - 12.00</b>	<b>Time for Q&amp;A</b>			
<b>12.00 - 13.30</b>	<b>Break time &amp; Lunch</b>			
<b>PLENARY AFTERNOON SESSION</b> Conference room No.B706				
<b>Time</b>	<b>Contents</b>	<b>Speakers</b>		
13.30 - 14.00	Keynote 03: <a href="#"><u>Water governance and transboundary data sharing in the lower Mekong region. A case study of Yali Hydropower Dam, Vietnam.</u></a>	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		