

# AGENDA FOR GIS-IDEAS 2018

Venue: Can Tho University (CTU)

Campus 2, 3/2 Street, Xuan Khanh ward, Ninh Kieu District, Can Tho, Vietnam

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## 22th November 2018: Training Session

Workshop	Lecturer	Venue
<b>09:00 – 12:00</b>		
<b>Workshop 1:</b> Analyzing time-series data for monitoring vegetation seasonality using	Phan Kieu Diem	<i>LRC Building – 4<sup>th</sup> Floor: Room A</i>
<b>Workshop 2:</b> Field Data Aggregation using Citizens and Sensors	Sittichai Chusumrong and Venkatesh Raghavan	<i>LRC Building – 4<sup>th</sup> Floor: Room B</i>
<b>Workshop 3:</b> Introduction to QGIS	Pham Thi Mai Thy	<i>LRC Building – 4<sup>th</sup> Floor: Computer Room</i>
<b>13:30 – 17:00</b>		
<b>Workshop 4:</b> Learning VBA ArcObjects and Python Programming in ArcGIS	Carlos Pascual	<i>LRC Building – 4<sup>th</sup> Floor: Room A</i>
<b>Workshop 5:</b> Theory and Practice of Deep Learning for Large-scale Geospatial Data	PoliyapramVinayaraj and Ryuhei Hamaguchi	<i>LRC Building – 4<sup>th</sup> Floor: Room B</i>
<b>Workshop 6:</b> User's guide for the LSE program supporting agricultural land use planning at regional scale	Nguyen Thanh Tuan and Ngo Dang Tri	<i>LRC Building – 4<sup>th</sup> Floor: Computer Room</i>

(Details about training sessions at [http://gisws.media.osaka-cu.ac.jp/gisideas18/workshop\\_2018.pdf](http://gisws.media.osaka-cu.ac.jp/gisideas18/workshop_2018.pdf))

## 23th November 2018: GIS-IDEAS Conference

Time	Contents	Venue	Speakers
08:00 - 09:30	Registration	<i>LRC Building – 4<sup>th</sup> Floor</i>	
09:30 - 10:00	Opening Ceremony	<i>LRC Building – 4<sup>th</sup> Floor: Conf. Hall</i>	Rector Board of CTU, Prof. Venkatesh Raghavan, To Be Announced
10:00 – 10:30	Coffee Break		
10:30 – 12:00	Keynote Session	<i>LRC Building – 4<sup>th</sup> Floor: Conf. Hall</i>	Keynote 1: Prof. Venkatesh Raghavan Keynote 2: Prof. Yuei-An Liou Keynote 3: Prof. Vo Quang Minh
12:00 – 13:30	Lunch break		
13:30 – 17:20	Parallel sections (1, 2 , 3)		
18:30	Welcome Reception party		

## PARALLEL SESSIONS (23th November 2018)

<b>Session 1: Rural-Urban Environmental Management I</b>		<i>LRC Building – 4<sup>th</sup> Floor: Conf. Hall</i>
<b>Chairperson:</b> Dr. Sittichai CHOOSUMRONG and Dr. Bui Ta LONG		
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
13:30 – 14:30	Spatial prediction of soil clay content using random forest kriging in Hiep Hoa district, Bac Giang province, Vietnam	Thuy Doan
	Developing an application on land use planning information in Gia Rai district, Bac Lieu province	Diep Nguyen Thi Hong
	Evaluation of Urban Expansion on the Change of Coastal Morphology Using Digital Shoreline Analysis System (DSAS) : A Case Study Of Rayong Province, Thailand	Tanyaluck Chansombat
14:30 – 14:50	<b>Coffee Break</b>	
14:50 – 16:00	<b>Poster Session</b>	
16:00 – 17:00	Landslide susceptibility mapping using random forest model in Lao Cai Province, Vietnam	Xuan Quang Truong
	A rule-based OBIA approach for tobacco plantation classification in Sukhothai province, Thailand	Tran Huu Duy
	Application remote sensing data for flooding detection and management in lagoon area: Case study in Quang Dien district, Thua Thien Hue province	Ngoc Nguyen Bich

<b>Session 2: Area Informatics and Applications</b>		<i>LRC Building – 4<sup>th</sup> Floor: Room AB</i>
<b>Chairperson:</b> Dr. Susumu NONOGAKI & Dr. Ho Dinh DUAN		
13:30 – 14:30	Geographically Weighted Regression for Surface Elevation Estimation Using Global DEMs and Spot Height Data	Venkatesh Raghavan
	Structural Health Monitoring System of the Thuan Phuoc Suspension Bridge in Viet Nam	Lan Nguyen
	Village level ethnic distribution in Nakhon Phanom in the middle Mekong corridor	Yoshikatsu Nagata
14:30 – 14:50	<b>Coffee Break</b>	
14:50 – 16:00	<b>Poster Session</b>	
16:00 – 17:20	Development of method for plane two-dimensional representation of one-dimensional analysis results by considering land form shape using laser profiler data; Converting the analysis results to GIS data.	Atsushi KAJIYAMA
	Uncertainty of GSMaP and PERSIANN Dataset for Precipitation Estimation in HuaiLuang Basin	Fatah Masthawe
	Application of GIS for analyze current waste collection routes and find effective routes of Thapho Phitsanulok district, Phitsanulok Province.	Phatsasi Phailahan
	Group Decision Criterion' Weight Value Analysis	Phanida Chuaboonmee

<b>Session 3:</b> <b>Smart urban and Smart agriculture</b> <b>Chairperson:</b> Dr. Sarawut NINSAWAT & Dr. Tran Van ANH		<i>LRC Building – 4<sup>th</sup> Floor: Room Oval</i>
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
13:30 – 14:30	Identifying drought affecting paddy land in urban agriculture area using remote sensing and actual observational precipitation data: A case study in Hoa Vang district, Danang city, central Vietnam	Phuong Tran Thi
	Development of Geoprocessing Service for Smart Farming using FOSS4G and IoT	ThitisakPothong
	Modeling of urban growth for cities separated by rivers and canals	Truong Chi Quang
14:30 – 14:50	<b>Coffee Break</b>	
14:50 – 16:00	<b>Poster Session</b>	
16:00 – 17:20	Estimation of rice plant height from laser point cloud data	Thi Anh Thu Phan
	Application of virtual 3D city models in urban planning	Van Sy mai
	Assessing the impact of drought on agricultural land use by intergating remote model and meteorological data: A case study in Quang Dien district, Thua Thien Hue province, Vietnam.	Ngoc Nguyen Bich
	Assessment of possibility of using sentinel-1 data in combination with Oryza model for rice production estimation: a case study in An Giang province, Mekong Delta	Tuan Quoc Vo

### 24th November 2018: GIS-IDEAS Conference - PARALLEL SESSIONS (cont.)

Time	Contents	Venue
09:00 – 12:00	Parallel Sessions (4, 5, 6,7)	
12:00 – 13:30	Lunch Break	
13:30 – 15:10	Sessions 8	
15:10 – 15:30	Coffe break	
15:30 – 16:30	Panel Discussion and Closing	<i>LRC Building – Floor 4, Conf. Hall</i>

### PARALLEL SESSIONS (24th November 2018)

<b>Session 4: Visualization of Spatio-temporal Geoscientific Data</b> <b>Chairperson:</b> Dr. Go YONEZAWA & Prof. Truong Xuan LUAN		<i>LRC Building – 4<sup>th</sup> Floor: Conf. Hall</i>
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
09:00 – 10:40	Long-term spatio-temporal warming tendency in the Vietnamese Mekong Delta based on observed and gridded datasets	Dang Nguyen Dong Phuong
	Long-term spatio-temporal warming tendency in the Vietnamese Mekong Delta based on observed and gridded datasets	Kim Loi Nguyen
	Evaluating the impacts of climate change on the spatial and temporal variability of extreme precipitation in Ho Chi Minh city.	Quan Nguyen
	Spatio-temporal dynamics of drought impacts in different vegetation cover types using Google Earth Engine.	Nga Nguyen
10:30 – 11:00	<b>Coffee Break</b>	

<b>Session 5: WEB-GIS and GeoIoT for Monitoring and Evaluation</b>		<i>LRC Building – 4<sup>th</sup> Floor: Room AB</i>
<b>Chairperson:</b> Prof. Venkatesh RAGHAVAN & Dr. Nguyen Kim LOI		
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
09:00 – 10:40	Assessment of renewable energy systems in northern Philippines using Geospatial Toolkit	Carlos Pascual
	GINS - an application for real-time geographic information sharing	Chon Le Trung
	Development of Routing Decision Support System for Emergency Medical Service	Sittichai Choosumrong
	Development of real-time Smart Weather Station and Web Processing Service for Monitoring and Evaluation of field Environmental Data Based on IoT and FOSS4G	Witsarut Rotchanatheeratham
	Improving accuracy of real time kinematic positioning by using PPP with IGS-RTS corrections	Pham Can
10:40 – 11:00	<b>Coffee Break</b>	

<b>Session 6: Open Source, Open Standards and Open Data for Geoinformatics</b>		<i>LRC Building – 4<sup>th</sup> Floor: Room Oval</i>
<b>Chairperson:</b> Dr. Kampanart PIYATHAMRONGCHAI & Dr. Nguyen Hieu TRUNG		
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
11:00 – 12:00	Deploying Geospatial Analysis through Web Processing Service Based on pyModis and ZOO-Project.	Chingchai
	Development of Real-Time Field Data Monitoring and Evaluation based on Web GIS for multi-purpose Application using ODK aggregate and FOSS4G.	Chidchanok Kerdyord
	Elderly Database design and Web Map Application using Open Data Kit and FOSS4G	Danupol Nasingkarn

<b>Session 7: Water Resources Security</b>		<i>LRC Building – 4<sup>th</sup> Floor: Conf. Hall</i>
<b>Chairperson:</b> Dr. Atsushi KAJIYAMA & Dr. Pham Viet HOA		
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
11:00 – 12:00	Using cell formation for establishing the groups of sub-flow trees in reducing single flow accumulation problem.	Chon Le Trung
	Assessment of the impact of full- dyke system on water quality using GIS; Case study: Vi Tan commune, Hau Giang province.	Nguyen Dinh Giang Nam
	Using nested interval tree to modeling single flow accumulation model for changing flow direction problem	Chon Le Trung

<b>Session 8: Rural-Urban Environmental Management II</b> <b>Chairperson: Dr. Yi-Ching CHEN &amp; Dr. Pham Thi Mai THY</b>		LRC Building – 4th Floor: Conf. Hall
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
13:30 – 15:10	Assessment of Drought Indices using Different Methods in South Central Coast of Vietnam	Huong Hoang Le
	Exploring LST changes in the Vietnamese Mekong River Delta with 2000 - 2015 MODIS data	Vu Phan Hien
	Evaluate the impacts of ecological balance from gold mining through the satellite data on Ongi river, Mongolia	Enkhjin Altanbulag
	Applying GIS and RS in assessing the change of forest cover in Thua Thien Hue province: A case study from 1989 to 2015	Thanh Ngan Nguyen
	Land suitability evaluator: a computerized framework for multi-criteria based land evaluation guiding sustainable land use planning	Tuan Nguyen Thanh

**POSTER SESSION (23th November 2018) 14:50 – 16:00**

**Chairperson:** Dr. Anujit VANSAROCHANA, Dr. Phaisarn JEEFOO & Dr. Vo Quoc TUAN

<b>No</b>	<b>Title</b>	<b>Speaker</b>
1	Application GIS and remote sensing technique to make the land cover map of Cu Chi district, Ho Chi Minh city	Nguyen Huy Anh
2	Applying GIS and RS in assessing the change of vegetation cover in Tram Chim national park from 1988 to 2017	Thanh Ngan Nguyen
3	Assessing land use transformation in agricultural regions in developing countries: a case study of Tien Giang province, Vietnam	Tuyen Nguyen Ngoc
4	Extended Web Direction Service to Avoid Obstacle on Road using Turf.js	Kampanart Piyathamrongchai
5	Landslide vulnerability zonation mapping using GIS and remote sensing methodology: A case study on highway 6, Hoa Binh province	Hang Ha Thi
6	Application of remote sensing and GIS for flood vulnerability and mitigation: A case study of flood affected highway 6, Hoa Binh province	Hang Ha Thi
7	Study on Stratigraphic Correlation Support System for 3-D Subsurface Geological Modeling using Borehole Data based on Logical Model of Geologic Structure	Shinji Masumoto
8	Visualization of three-dimensional geologic model using WebGL	Tatsuya Nemoto
9	Construction and Evaluation of 3-D Geological Model for Urban Geospatial Analysis	Go Yonezawa
10	Web Sharing of Three-Dimensional Geological Data using Open Source Software	Susumu Nonogaki
11	Exploitation development of Ca Mau forestry plants base on Google Earth Engine foundation	Hoa Thien Nguyen
12	Establishing and exploiting the GIS database for the management of urban water drainage infrastructure	Tran Quynh An
13	Long-term hydrological effects of climate change and land-use change in the Upper Part of Dong Nai river basin	Pham Hung
14	Damage monitoring and adaptation in case of Bang Rakam flooding, Phitsanulok Province, Thailand	Pathana Rachavong
15	Monitoring shoreline changes of the Tien and Hau rivers using multi-temporal Landsat data	Nguyen Huu Long

25th November 2018: Field Visit [travel stay.pdf](#)