







ISPRS and GEO Workshop on Geospatially-enabled SDGs Monitoring for the 2030 Agenda (GI4SDGs)

Programme Book

November 19-20, 2019

Fenglin Hotel, Changsha, Hunan, China

Organizing Committees

Co-Chairs

Xiaoguang Zhou Central South University, China/ISPRS WG IV/4, Co-chair

Hao Wu National Geomatics Center of China, China/ ISPRS ICWG IV/III, Chair

Maria Antonia Brovelli Politecnico di Milano, Italy/ISPRS WG IV/4, Chair

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TC III President

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Jonathan Philip Mills Newcastle University, UK

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Secretary

Lixin Wu Central South University, China

Xuesheng Zhao China University of Mining and Technology, China

Sisi Zlatanova University of New South Wales, Australia/ISPRS TC IV President

Organizers

- ISPRS ICWG IV/III: Global mapping: updating, verification and interoperability
- ISPRS WG IV/4: Collaborative Crowdsourced Cloud Mapping (C M)
- GEO Community Activity: Land Cover and Land Cover Change
- School of Geosciences and Info-Physics, Central South University, Changsha, China
- National Geomatics Center of China (NGCC)

Programme

ISPRS and GEO Workshop on

Geospatially-enabled SDGs Monitoring for the 2030 Agenda (GI4SDGs)

November 19-20, 2019, Changsha, China

Location: 3rd meeting room (3rd floor)

Monday, 18 November 2019			
14:00 - 22:00	Registration		
Tuesday, 19 November 2019			
8:30 - 9:10	Opening Chair: Prof. Xiaoguang Zhou, Central South University/ISPRS WG IV/4 Co-chair Welcome address by CSU representative, Xuehong Zhu, Vice President of CSU, CN Welcome address by Prof. Lena Halounova, ISPRS Secretary General, CZ Group Photo		
9:10 - 10:30	 Keynote Session Chair: Prof. Maria Antonia Brovelli, Politecnico di Milano /ISPRS WG IV/4 Chair Transformation from Human Needs to SDGs, Prof. Orhan Altan, Istanbul technical University, TR International Perspectives on Earth Observations - Delivering the SDGs, Dr. Barbara Ryan, Group on earth observation, USA Geospatially-enabled SDG monitoring for supporting the united nation's 2030 agenda, Prof. Jun Chen, National Geomatics Center of China, CN 		
10:30 - 10:50	Tea/Coffee break		
10:50 - 12:10	 Technical Session1: Monitoring SDGs with Geospatial Information Chair: Prof. Sisi Zlatanova, University of New South Wales/ ISPRS TC IV President 1. The UKRI GCRF water security and sustainable development hub and the role of geospatial information, Prof. Jon Mills, Newcastle University, UK 2. SIMILE, a geospatial enabler of the monitoring of Sustainable Development Goal 6 		

	 (Ensure availability and sustainability of water for all), Prof. Maria Antonia Brovelli, Politecnico di Milano, IT 3. SDG local monitoring: China's Pilot project, Shu Peng, National Geomatics Center of China/UN-GGIM-AP WG3: Integrating Geospatial Information and Statistics, Vice-Chair, CN 4. Big geospatial data for SDGs, Prof. Songnian Li, Ryerson University, CA
12:10 - 14:00	Lunch (Location: Ziqidonglai Hall, Fenglin Hotel)
	Technical Session 2: Geospatial Information Extraction
	Chair: Prof. Hongrui Zhao, Tsinghua University
14:00 - 15:40	Mapping in Smart Cities: Crowdsourcing by Autonomous Vehicles, Prof. Charles K Toth, Ohio State University, USA
	 Estimating aboveground biomass of bamboo and mixed bamboo forest in Thua Thien-Hue Province, Viet Nam using PALSAR-2 and Landsat OLI data, Dr. Cat Tuong Truong Thi, Vietnam Academy of Science and Technology, VN Semantic classification of urban buildings using deep learning and VGI information,
	Dr. Wenzhi Zhao, Beijing Normal University, CN
	4. Cross analysis and integration of three new benchmark datasets for remote sensing image retrieval, Dr. Dongyang Hou, Central South University, CN
	5. African land cover validation with LSI sampling approach, Dr. Fei Chen, East China University of Technology, CN
15:40 - 16:00	Tea/Coffee break
	Technical Session 3: Geospatial Information Modelling and Analysis
16:00 - 17:20	Chair: Prof. Lixin Wu, Central South University
	1. A geo-database solution for the management and analysis of building model with multi-source data fusion, Prof. Sisi Zlatanova, University of New South Wales, AU
	2. FAIR and standard access to spatial data as the means for achieving sustainable development goals, Dr. Ivana Iv ánov á Curtin University, AU
	3. From SDGs monitoring to decision makingDeqing's three year action plan, Dr. Hao Chen, Hunan University of Science and Technology, CN
	 Understanding the travel behaviors and activity patterns of vulnerable population using smart card data: An activity space-based approach, Dr. Shanqi Zhang, Nanjing University, CN

	Discussion (Chair: Prof. Songnian Li and Prof. Jon Mills)		
17:20 - 18:30	ISPRS Scientific Programme on Geo-information for SDGs: Framework and implementation		
18:30 - 20:00	Welcome Dinner (Location: Ziqidonglai Hall, Fenglin Hotel)		
Wednesday, 20 November 2019			
	Student Session 1		
	Chair: Dr. Ivana Ivánová, Curtin University /ISPRS ICWG IV/III, Co-chair		
8:30 - 10:00	 Extraction methods and experiment on essential forest variables for geospatially-enabled SDGS monitoring, Yijing Zhao, China University of Mining and Technology, CN Examining multi-level poverty-causing factors of farm households, Yuewen Jiang, Capital Normal University, CN An improved pixel counting method for arbitrary zonal statistics on GlobeLand30, Xu Chen, China University of Mining and Technology, CN Measuring regional progress towards SDG3 with geospatial and statistical information- a case study of Deqing, Qianwen Wang, China University of Mining and Technology, CN A method of building detection in remote sensing images based on deep learning with multiple lightness detectors, Dongming Huang, Tsinghua University, CN Quantifying effects of changing spatial scale on spatial entropy index: use of fractal dimension, Chaojun Wang, Tsinghua University, CN 		
10:00 - 10:20	Tea/Coffee break		
10:20 - 11:50	Student Session 2		
	Chair: Prof. Xuesheng Zhao, China University of Mining and Technology		
	 Comparison and analysis of the accuracy of GEE platform pixel-based supervised classification-taking Shandong province as an example, Chenlin Jia, China University of Mining and Technology, CN Research on information acquisition and accuracy analysis of ancient architecture plaque with common smart phone, Xiao Pan, Beijing University of Civil Engineering and Architecture, CN Monitoring the spatio-temporal trajectory of urban area hotspots in Wuhan, China using time-series nighttime light images, Yuling Ruan, Central South University, CN 		

	 Study on extraction and expression methods of bulging diseases in ancient city walls, Qing Song, Beijing University of Civil Engineering and Architecture, CN Research on the factors affecting the accuracy of three-dimensional reconstruction model of Rotor UAV archaeological sites, Xin Zheng, Beijing University of Civil Engineering and Architecture, CN An approach for evaluating the information content of remote sensing images, Shimin Fang, Central South University, CN
8:30 - 11:30	Business meeting on Joint project application on GEO4SDGs (invited only) Location: meeting room A (eighth floor)
11:50 - 12:20	Closing Chair: Dr. Hao Wu, National Geomatics Center of China/ISPRS ICWG IV/III Chair
12:20 - 14:00	Lunch (Location: Ziqidonglai Hall, Fenglin Hotel)

Accommodation

The Workshop will be held in the Fenglin Hotel in Changsha, the capital city of Hunan Province. The hotel located at the foot of the Yuelu Mountain and close to the Yuelu Academy and Autumn-Admiring Pavilion. As a "thousand-year academy", The Yuelu Academy was one of the four ancient Chinese academies. The Late-Autumn-Admiring Pavilion is one of the four famous pavilions of China.

The hotel is located at: No. 43, Fenglin 1st Rd., Changsha, China (长沙市岳麓区枫林一路 43 号). Please check out the workshop website for directions.



Catering

Registered participants will be provided with lunches, dinner, as well as morning and afternoon coffee breaks. In the evening of Tuesday, December 19, 2019, workshop participants are invited to attend a reception dinner hosted by the Central South University.

Workshop Website

http://www.geoinfobar.com/GI4SDGS/index.html

Contact

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How to get to the Fenglin Hotel?

- > From Huanghua International Airport
- By taxi: about 100 Yuan RMB, 50 minutes.
- By airport bus (about 1 hour and 30 minutes): take the Airport Express to the Minhang Hotel stop, then walk to the Changsha railway station stop and take the Metro line 2 towards Yingwanzhen stop, cross the underground passage



> From Changsha South Railway Station

- By taxi: about 50 Yuan RMB, 40 minutes.
- By subway (about 35 minutes): walk to the Changsha South Railway Station stop and take the Metro line 2 towards Yingwanzhen(溁湾镇) stop, cross the underground passage



From Changsha Railway Station

- By taxi: about 50 Yuan RMB, 30 minutes.
- By subway (4 Yuan RMB, about 30 minutes): walk to the Changsha railway station stop and take the Metro line 2 towards Yingwanzhen (溁湾镇)stop, cross the underground passage.

