

第28届国际地理信息科学大会议程(初步安排)

“地理信息助力韧性社会建设”

(大会前序线上活动)

The 28th International Conference on Geoinformatics CPGIS Annual Conference

August 5-7 2021

ONLINE, Pre-conference

Thursday 5 August 2021 (ONLINE, Pre-conference)

Time	Session	Chair
09:00-11:00	Session 1: Spatiotemporal analysis in environmental health studies	Kevin Mwenda
	Session 2: Rapid response to global health pandemic: data, tools and applications	Shuming Bao
	Session 3: Supporting Women Panel	Daoqin Tong

Friday 6 August 2021 (ONLINE, Pre-conference)

Time	Session	Chairs
09:00-11:00	Session 4-1: Theoretical Perspectives on GIScience (Panel)	Bin Li and A-Xing Zhu
	Session 5: CPGIS Student Paper Competition	Xiang Chen
21:00-23:00	Session 6: Data issues in spatial epidemiology	Xun Shi

Saturday 7 August 2021 (ONLINE, Pre-conference)

Time	Session	Chairs
09:00-11:00	Session 7: Spatiotemporal characterization of communicable diseases	Meifang Li
	Session 8: Annals of GIS Awarded Papers	A-Xing Zhu and Min Chen
	Session 9: Human Dynamics for Urban Data Science (symposium)	Xinyue Ye Daniel Sui and Shih-Lung Shaw
21:00-23:00	Session 10: GIS Analysis of Healthcare Delivery, Organization and Outcomes	Fahui Wang
	Session 4-2: Theoretical Perspectives on GIScience (Panel)	A-Xing Zhu and Bin Li

第28届国际地理信息科学大会议程(初步安排)

“地理信息助力韧性社会建设”

The 28th International Conference on Geoinformatics CPGIS Annual Conference

August 8-10 2021

Hualuxe Hotel•Nanchang (南昌绿地华邑酒店)

Saturday 7 August 2021

Hualuxe Hotel•Nanchang (1th Floor)

14:00-21:00 Registration

Sunday 8 August 2021

Hotel Grand Ballroom (5th Floor)

Time	Session	Chair
09:00-09:40	Opening Ceremony	Hui Lin
09:40-10:10	Group Photo and Tea Break	
10:10-10:50	Keynote Speech: On Geospatial Information Science in the Era of IOT Deren Li	Changchui He
10:50-11:30	Keynote Speech: Big Earth Data in Facilitating Sustainable Development Goals Huadong Guo	
11:30-12:00	Invited Speech: Title to be determined 易智瑞 (中国)	

Sunday 8 August 2021

Hualuxe Meeting Room 1&2 (5th Floor)

Time	Session	Chairs
13:30-15:00	Session 11: The Development and Innovation of Crime Geography	Lin Liu and Guangwen Song
15:00-15:30	Tea Break	
15:30-17:00	Session 12: InSAR for Monitoring the Urban Infrastructure Health	Peifeng Ma and Oriol Monserrat

Sunday 8 August 2021

Hualuxe Meeting Room 3 (5th Floor)

Time	Session	Chairs
13:30-15:00	Session 13-1: Advances in remote sensing of environment	Xinlian Liang Yanjun Su and Qinghua Guo
15:00-15:30	Tea Break	
15:30-17:00	Session 13-2: Advances in remote sensing of environment	Xinlian Liang Yanjun Su and Qinghua Guo

Sunday 8 August 2021

Hualuxe Meeting Room 6&7 (5th Floor)

Time	Session	Chairs
13:30-15:00	Session 14-1: Spatial analysis of ocean and coastal zone	Fenzhen Su and Fengqin Yan

15:00-15:30	Tea Break	
15:30-17:00	Session 14-2: Spatial analysis of ocean and coastal zone	Fenzhen Su and Fengqin Yan
Sunday 8 August 2021 Grand Ballroom 1 (5th Floor)		
Time	Session	Chairs
13:30-15:00	Session 15-1: Coastal Disaster Monitoring and Mitigation	Adam Thomas Devlin and Jiayi Pan
15:00-15:30	Tea Break	
15:30-17:00	Session 15-2: Coastal Disaster Monitoring and Mitigation	Adam Thomas Devlin and Jiayi Pan
Sunday 8 August 2021 Grand Ballroom 2&3 (5th Floor)		
Time	Session	Chairs
13:30-15:00	Session 16-1: Big Earth Data for Disaster Risk Reduction	Fang Chen and Lizhe Wang
15:00-15:30	Tea Break	
15:30-17:00	Session:16-2: Big Earth Data for Disaster Risk Reduction	Lizhe Wang
Monday 9 August 2021 Hotel Grand Ballroom (5th Floor)		
Time	Session	Chair
09:00-09:40	Keynote Speech: Prospect of Geospatial Intelligence System Studies Chenghu Zhou	A-Xing Zhu
09:40-10:20	Keynote Speech: Urban Observatory Science: Leveraging Geospatial Data and Real-world Experimentation for Sustainability Harvey Miller	
10:20-10:40	Tea Break	
10:40-11:20	Keynote Speech: Spatial-temporal big data enable social governance Jianya Gong	Qiming Zhou
11:20-12:00	Keynote Speech: Spatio-Temporal AI : A framework for Hyper Dimensional Data Computation and its Practice Chuan Tao	
Time	Session	Chair
13:30-14:10	Keynote Speech: The unbearable truth in big data and cartography Liqiu Meng	Yaolin Liu
14:10-14:50	Keynote Speech: The Evolution of GIS – Challenges and Prospects with Examples from a Sino-Austrian Cooperation Wolfgang Kainz	
14:50-16:10	Tea Break	
16:10-16:50	Keynote Speech: The Post-Pandemic City: What Will Cities Look Like in the year 2050? Michael Batty	Bisheng Yang
16:50-17:30	Keynote Speech: Earth Observation Big Data and Deep Learning for Global Environmental Change Monitoring Yifang Ban	

18:30-21:00	CPGIS NIGHT	Song Gao
Tuesday 10 August 2021 Hualuxe Meeting Room 1&2 (5th Floor)		
Time	Session	Chairs
8:30-10:00	Session 17-1: Virtual Geographic Environments	Min Chen Arzu Çöltekin and Chunxiao Zhang
10:00-10:30	Tea Break	
10:30-12:00	Session 18: Title to be determined	Shuisen Chen
Tuesday 10 August 2021 Hualuxe Meeting Room 3 (5th Floor)		
Time	Session	Chairs
8:30-10:00	Session 19-1: Street-level Imagery Analytics	Fan Zhang and Yu Ye
10:00-10:30	Tea Break	
10:30-12:00	Session 19-2: Street-level Imagery Analytics	Fan Zhang and Yu Ye
Tuesday 10 August 2021 Hualuxe Meeting Room 6&7 (5th Floor)		
Time	Session	Chairs
8:30-10:00	Session 20-1: Cartography and Geovisualization	Fu Ren and Yihong Yuan
10:00-10:30	Tea Break	
10:30-12:00	Session 20-2: Cartography and Geovisualization	Fu Ren and Yihong Yuan
Tuesday 10 August 2021 Grand Ballroom 1 (5th Floor)		
Time	Session	Chairs
8:30-10:00	Session 21-1: Spatially Integrated Humanities and Social Sciences	Kun Qin and Yaolong Zhao
10:00-10:30	Tea Break	
10:30-12:00	Session 21-2: Spatially Integrated Humanities and Social Sciences	Qingxiang Meng and Jianglei Jin
Tuesday 10 August 2021 Grand Ballroom 2&3 (5th Floor)		
Time	Session	Chairs
8:30-10:00	Session 22-1: Spatiotemporal big data for territorial spatial planning	Xinqi Zheng and Chunxiao Zhang
10:00-10:30	Tea Break	
10:30-12:00	Session 22-2: Spatiotemporal big data for territorial spatial planning	Xinqi Zheng and Chunxiao Zhang
Tuesday 10 August 2021 Hualuxe Meeting Room 1&2 (5th Floor)		

Time	Session	Chairs
13:30-15:00	Session 17-2: Virtual Geographic Environments	Min Chen Arzu Çöltekin and Chunxiao Zhang
15:00-15:30	Tea Break	
15:30-17:00	Session 17-3: Virtual Geographic Environments	Min Chen Arzu Çöltekin and Chunxiao Zhang
Tuesday 10 August 2021 Hualuxe Meeting Room 3 (5th Floor)		
Time	Session	Chairs
13:30-15:00	Session 23: Spatial cognition in the mobile information era	Weihua Dong Haosheng Huang and Amy Griffin
15:00-15:30	Tea Break	
15:30-17:00	Session 24: Geospatial Intelligence	Kai Cao
Tuesday 10 August 2021 Hualuxe Meeting Room 6&7 (5th Floor)		
Time	Session	Chair
13:30-15:00	Session 25-1: Geocomputation	Wu Huayi
15:00-15:30	Tea Break	
15:30-17:00	Session 25-2: Geocomputation	Wu Huayi
Tuesday 10 August 2021 Grand Ballroom 1 (5th Floor)		
Time	Session	Chairs
13:30-15:00	Session 26-1: Modeling Global Change and Sustainable Development	Yimin Chen and Xia Li
15:00-15:30	Tea Break	
15:30-17:00	Session 26-2: Modeling Global Change and Sustainable Development	Yimin Chen and Xia Li
Tuesday 10 August 2021 Grand Ballroom 2&3 (5th Floor)		
Time	Session	Chairs
13:30-15:00	Session 27: Remote Sensing for Coastal Sustainability	Hongsheng Zhang Mingming Jia and Yiping Chen
15:00-15:30	Tea Break	

Schedule of Presentations(Pre-conference)

August 5-7 2021

Thursday 5 August 2021		
Session 1: Spatiotemporal analysis in environmental health studies		
Chair: Kevin Mwenda		ONLINE, Pre-conference
Time	Session	Institute
09:00-09:15	Titel: Applications of Spatial Lifecourse Epidemiology in COVID-19 research (Online) Peng Jia	The Hong Kong Polytechnic University
09:15-09:30	Titel: Adverse sentiment and anti-Asian hate during COVID-19 (Online) Alexander Hohl¹, Moongi Choi¹, Aggie J. Yellow Horse², Richard Medina¹, Neng Wan¹, Ming Wen¹	1.University of Utah; 2.Arizona State University
09:30-09:45	Titel: Space–Time Conditional Autoregressive Modeling to Estimate Neighborhood-Level Risks for Dengue Fever in Cali, Colombia. (Online) Michael R Desjardins¹, Matthew D Eastin², Rajib Paul³, Irene Casas⁴, Eric Delmelle²	1.Johns Hopkins Bloomberg School of Public Health; 2.University of North Carolina at Charlotte; 3.University of North Carolina at Charlotte; 4. Louisiana Tech University
09:45-10:00	Titel: Moving Native American Environmental Health Disparities Research Forward Through a Geographic Lens (Online) Yan Lin¹, Daniel Beene¹, and Joseph Hoover^{1,2}	1.University of New Mexico; 2.Montana State University.
10:00-10:15	Titel: The impact of Lyme disease on forest ecosystem service income: a time-geography explanation and substitution effects (Online) Felix Haifeng Liao	University of Idaho
10:15-10:30	Titel: Understanding Geospatial Uncertainty of reported COVID-19 cases: A Fine Scale Approach (Online) Kevin M. Mwenda	Brown University
Thursday 5 August 2021		
Session 2: Rapid response to global health pandemic: data, tools and applications		
Chair: Shuming Bao		ONLINE, Pre-conference
Time	Session	Institute
09:00-09:15	Titel: Rapid Response to Emerging Public Health Threats: Challenges and opportunities (Online) Shuming Bao	China Data Institute
09:15-09:30	Titel: Rapid Response to Emerging Public Health Threats: Big data collection (Online) Biyu Chen, Yuanzhen Shao	Wuhan University
09:30-09:45	Titel: Rapid Response to Emerging Public Health Threats: Emerging data integration and preservation (Online) Wendy Guan	Harvard University
09:45-10:00	Titel: Rapid Response to Emerging Public Health Threats: Efficient and replicable data analysis and visualization (Online) Tao Hu,Xiaokang Fu, Lingbo Liu	Harvard University;Wuhan University

10:00-10:15	Titel: Rapid Response to Emerging Public Health Threats: Spatial-temporal Analysis on COVID-19 Data (Online) Chaowei Yang	George Mason University
10:15-10:30	Titel: Rapid Response to Emerging Public Health Threats: Measuring human mobility using Twitter data (Online) Zhenlong Li	University of South Carolina

Thursday 5 August 2021

Session 3: Supporting Women Panel

Chair: Daoqin Tong

ONLINE, Pre-conference

Time	Session	Institute
09:00-11:00	Daoqin Tong	Arizona State University
	Mei-Po Kwan	Chinese University of Hong Kong
	Yongmei Lu	Texas State University
	Xiuping Jia	Beijing University of Posts and Telecommunications
	Yifang Ban	KTH Royal Institute of Technology in Stockholm
	Siqin Wang	University of Queensland



Friday 6 August 2021

Session 4-1: Theoretical Perspectives on GIScience (Panel)

Chairs: Bin Li and A-Xing Zhu

ONLINE, Pre-conference

Time	Session	Institute
09:00-11:00	Titel: Causal inferences in spatial statistics and machine learning (Online) Li Bin	Central Michigan Univesity
	Titel: Platial Analysis in GIS (Online) Gong Song	University of Wisconsin
	Titel: Social governance on GIS (Online) Gong Jianya	Wuhan University
	Titel: Human Mobility and the Neighborhood Effect Averaging Problem (NEAP) (Online) Mei-Po Kwan	Chinese University of Hong Kong
	Titel: Scaling effects in global land use analysis and modelling (Online) Li Xia	East China Normal University
	Titel: From Spatial Data Handling to Geographical Information Science (Online) Li Zhilin	Hong Kong Polytech University
	Titel: Presentation Title to be determined (Online) Lin Hui	Jiangxi Normal University
	Titel: Opportunities and challenges in crime analysis (Online) Liu Lin	University of Cincinnati
	Titel: Towards the four types of spatial effects in geographical analysis (Online) Liu Yu	Peking University
	Titel: Rethinking Tobler's first law of geography in the age of quantum computing (Online) Sui Danzhi	Virginia Tech University
Titel: Presentation Title to be determined (Online) May Yuan	University of Texas at Dallas	
Titel: The role of GIS in the development of smart society (Online) Zhou Qiming	Hong Kong Baptist University	

Friday 6 August 2021

Session 5: CPGIS Student Paper Competition

Chairs: Xiang Chen

ONLINE, Pre-conference

Time	Session	Institute
09:00-09:15	Titel: Identifying China's polycentric cities and evaluating their urban centers using nighttime light data (Online) Zhiwei Yang	Guangzhou University
09:15-09:30	Titel: Movement patterns of racial-ethnic and economic groups in U.S. top 50 cities: What can social media tell us about segregation? (Online) Meiliu Wu	University of Wisconsin-Madison
09:30-09:45	Titel: Individual level spatial-temporal modeling of exposure potential of livestock in the Cove Wash Watershed, Arizona (Online) Zhuoming Liu	University of New Mexico

09:45-10:00	Titel: GIS-automated delineation of hospital service areas in Florida: From Dartmouth method to network community detection methods (Online) Changzhen Wang	Louisiana State University
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Friday 6 August 2021

Session 6: Data issues in spatial epidemiology

Chairs: Xun Shi

ONLINE, Pre-conference

Time		Institute
21:00-21:15	Titel: Advancing COVID-19 Research and Education through Reproducible Geospatial Science (Online) Shaowen Wang¹, Anand Padmanabhan¹, Rebecca Vandewalle¹, Xun Shi², and Meifang Li^{2,3}	1.University of Illinois Urbana-Champaign; 2.Dartmouth College; 3.Jiangxi Normal University
21:15-21:30	Titel: Impact of geographic scale to the timely detection of COVID19 (Online) Eric Delmelle¹, Michael Desjardins², Alex Hohl³, Lan Yu¹	1. University of North Carolina at Charlotte; 2.Johns Hopkins Bloomberg School of Public Health; 3.University of Utah
21:30-21:45	Titel: Mapping Human Mobility Changes and Geospatial Modeling of COVID-19 Spread in the United States (Online) Song Gao	University of Wisconsin-Madison
21:45-22:00	Titel: Using Reproductions and Replications to Assess the Credibility of Findings in Health Geography and GISci: Some Early Results from Reproductions of COVID-19 Research (Online) Peter Kedron¹, Joseph Holler², Sarah Bardin¹	1.Arizona State University; 2.Middlebury College
22:00-22:15	Titel: Integration of small, medium, and big data for spatial epidemiology (Online) Xun Shi	Dartmouth College
22:00-22:30	Titel: Modeling the complete spatiotemporal spread of the COVID-19 epidemic in mainland China (Online) Bisong Hu	Jiangxi Normal University

Saturday 7 August 2021

Session 7: Spatiotemporal characterization of communicable diseases

Chairs: Meifang Li

ONLINE, Pre-conference

Time	Session	Institute
09:00-09:15	Title: A geospatial model-based estimation for typhoid fever in India (Online) Yanjia Cao	University of California
09:15-09:30	Title: Estimating Contact Structure among Feral Swine: Implications for African Swine Fever Transmission and Management Annie Yang	University of Oklahoma
09:30-09:45	Title: Battling COVID-19 Epidemic in Nanchang, China: What GIS can do (Online) Meifang Li	Jiangxi Normal University
09:45-10:00	Title: Model of multi-scale behavior interaction scenario for simulation of epidemic transmission (Online) Haiping Zhang	Nanjing Normal University
10:00-10:15	Title: Natural and human environment interactively drive spread pattern of COVID-19: a city-level modeling study in China (Online) Xiaoxu Wu, Jie Yin, Chenlu Li, Hongxu Xiang, Meng Lv, Zhiyi Guo	Beijing Normal University
10:15-10:30	Title: integrating fine-grained human mobility into epidemic models (Online) Ling Yin	Shenzhen Institute of Advanced Technology,CAS

Saturday 7 August 2021

Session 8: Annals of GIS Awarded Papers

Chairs: A-Xing Zhu and Min Chen

ONLINE, Pre-conference

Time	Session	Institute
09:00-09:15	Title: Spatiotemporally Varying Coefficients (STVC) model: a Bayesian local regression to detect spatial and temporal nonstationarity in variables relationships (Online) Chao Song, Xun Shi, Jinfeng Wang	Sichuan University
09:15-09:30	Title: A Bayesian spatial shared component model for identifying crime-general and crime-specific hotspots (Online) Jane Law, Matthew Quick, Afraaz Jadavji	University of Waterloo
09:30-09:45	Title: A review of urban physical environment sensing using street view imagery in public health studies (Online) Yuhao Kang, Fan Zhang, Song Gao, Hui Lin, Yu Liu	University of Wisconsin-Madison
09:45-10:00	Title: Spatial homogeneity and heterogeneity of energy poverty: a neglected dimension (Online) Bardia Mashhoodi, Dominic Stead, Arjan van Timmeren	Delft University of Technology
10:00-10:15	Title: A small-patched convolutional neural network for mangrove mapping at species level using high-resolution remote-sensing image (Online) Luoma Wan, Hongsheng Zhang, Guanghui Lin, Hui Lin	The Chinese University of Hong Kong

10:15-10:30	Title: Why public health needs GIS: a methodological overview (Online) Fahui Wang	Louisiana State University
10:30-10:45	Title: Land use/land cover and land surface temperature analysis in Wayanad district, India, using satellite imagery (Online) J. John, G. Bindu, B. Srimuruganandam, A. Wadhwa, P. Rajan	Vellore Institute of Technology
10:45-11:00	Title: Suitable location selection for the electric vehicle fast charging station with AHP and fuzzy AHP methods using GIS (Online) Dogus Guler*, Tahsin Yomralioglu	Istanbul Technical University

Saturday 7 August 2021

Session 9: Human Dynamics for Urban Data Science (symposium)

Chairs: Xinyue Ye Daniel Sui and Shih-Lung Shaw

ONLINE, Pre-conference

Time	Session	Institute
09:00-11:00	Sui Danzhi	Virginia Tech
	Shaw Shih-lung	The University of Tennessee
	James Caverlee	Texas A&M University
	Ali Mostafavidarani	Texas A&M University
	Bahar Dadashova	Texas A&M University
	Guan Qingfeng	China University of Geosciences (Wuhan)
	Li Xiang	East China Normal University
	Liu Helin	Huazhong University of Science and Technology
	Long Ying	Tsinghua University
	Zhou Jiangping	The university of Hong Kong
Ye Xinyue	Texas A&M University	

Saturday 7 August 2021

Session 10: GIS Analysis of Healthcare Delivery, Organization and Outcomes

Chairs: Fahui Wang

ONLINE, Pre-conference

Time	Session	Institute
21:00-21:15	Title: Automated Delineation of Hospital Service Areas and Hospital Referral Regions by Modularity Optimization (Online) Yujie Hu, Fahui Wang, Imam Xierali	University of Florida ; Louisiana State University;The University of Texas Southwestern Medical Center
21:15-21:30	Title: Geographic disparities in radon exposure and screening services in an urban environment (Online) Dajun Dai	Georgia State University
21:30-21:45	Title: Accessibility to delivery care in Hubei Province, China (Online) Zhuolin Tao, Yang Cheng, Shishuai Du, Ling Feng, Shaoshuai Wang	Beijing Normal University ;Shandong Experimental High School;Huazhong University of Science and Technology
21:45-22:00	Title: Hospital Service Areas for Patients of Hand-Foot-Mouth Disease in Nanchang, China (Online) Zeliu Zheng, Fahui Wang	Louisiana State University
22:00-22:15	Title: 2SVCA method for measuring geographic access to telehealth (Online) Fahui Wang	Louisiana State University
22:15-22:30	Title: Industrial Air Pollution and Low Birth Weight a Case-Control Study Using Big Geographic Data (Online) Xi Gong¹, F. Benjamin Zhan²	1.University of New Mexico; 2.Texas State University

Saturday 7 August 2021

Session 4-2: Theoretical Perspectives on GIScience (Panel)

Chairs: A-Xing Zhu and Bin Li

ONLINE, Pre-conference

Time	Session	Chairs
21:00-23:00	Title: The Third Law of Geography: What the big deal? (Online) Zhu Axing	University of Wisconsin
	Title: Some fundamental issues in GISci (Online) Huang Bo	Chinese University of Hong Kong
	Title: Geography as a Science of the Earth's Surface Founded on the Third View of Space (Online) Jiang Bin	University of Gävle, Sweden
	Title: How to abstractly describe and express geographic information? (Online) Lv Guonian	Nanjing Normal University
	Title: Presentation Title to be determined (Online) Lu Yongmei	Texas State University, USA
	Title: "Here and Now" in HD maps for autonomous driving (Online) Meng Liqiu	Technical University of Munich, Germany
	Title: A GIScience Framework beyond Absolute Space (Online) Shih-lung Shaw	University of Tennessee, USA

21:00-23:00	Title: Similarity in the Third Law of Geography (Online) Shi Xun	Dartmouth College, USA
	Title: Heterogeneity of geographic flows (Online) Pei Tao	The Chinese Academy of Sciences
	Title: Dealing with non-structural geographic information data (Online) Wu Huayi	Wuhan University
	Title: Human Dynamics for GeoDesign (Online) Ye Xinyue	Texas A&M
	Title: Polygon-based Watershed Analysis: Coupled Human and Natural Systems (Online) Zhang Xiaoxiang	Hohai University



Schedule of Presentations

Hualuxe Hotel Nanchang (南昌绿地华邑酒店)

August 8-10 2021

Sunday 8 August 2021

Session 11: The Development and Innovation of Crime Geography

Chairs: Lin Liu and Guangwen Song

Hualuxe Meeting Room 1&2 (5th Floor)

Time	Session	Institute
13:30-13:45	Title: Elements of Crime Analysis (Onsite) Lin Liu	University of Cincinnati/Guangzhou University
13:45-14:00	Title: Effects of three types of ambient population on theft on weekdays and weekends in Beijing, China (Onsite) Guangwen Song	Guangzhou University
14:00-14:15	Title: Ambient Population and Larceny-Theft: A Spatial Analysis Using Mobile Phone Data (Onsite) Li He	Xi'an Jiaotong University
14:15-14:30	Title: Measuring large-scale neighborhood-level fear of crime based on small sample surveys and street view big data (Onsite) Fengrui Jing	Sun Yat-sen University
14:30-14:45	Title: Street permeability, neighborhood context and residential burglary: A test of multilevel criminal opportunity theory in Wuhan, China (Onsite)	Guangzhou University
15:00-15:30	Tea Break	

Sunday 8 August 2021

Session 12: InSAR for Monitoring the Urban Infrastructure Health

Chairs: Peifeng Ma and Oriol Monserrat

Hualuxe Meeting Room 1&2 (5th Floor)

Time	Session	Institute
15:30-15:45	Title: Deformation monitoring at European scale: the copernicus ground motion service (Online) Michele Crosetto	Centre Tecnològic de Telecomunicacions de Catalunya-CTTC
15:45-16:00	Title: Lu Tan-1(LT-1): The First Chinese L-Band Differential Interferometric SAR Satellites for Terrain and Subsidence Monitoring (Onsite)	Land Satellite Remote Sensing Application Center, MNR
16:00-16:15	Title: Linking multi-sensor SAR data in time and space (Online) Ling Chang, Bin Zhang and Alfred Stein	University of Twente
16:15-16:30	Title: Sentinel-1 for Urban and infrastructure monitoring: an overview (Online) Oriol Monserrat	Centre Tecnològic de Telecomunicacions de Catalunya-CTTC
16:30-16:45	Title: Monitoring of subsidence along high speed railways in China using Sentinel-1, PALSAR-2 and TerraSAR-X (Onsite) Qingli Luo,Zheng Zhao	Tianjin University
16:45-17:00	Title: Distributed Scatterer Interferometry for Airport Subsidence Monitoring (Onsite) Guoqiang Shi	The Chinese University of Hong Kong
17:00-17:15	Title: The Subsidence Detection and Analysis Along Kunming Subway Network Based on SBAS-InSAR (Onsite) Bo Xiao, Junsan Zhao,Dongsheng Li ,Wenfei Xi,Dingyi Zhou,Shuai Gao,Zhenfeng Zhao	Kunming University of Science and Technology

Sunday 8 August 2021

Session 13-1: Advances in remote sensing of environment

Chairs: Xinlian Liang Yanjun Su and Qinghua Guo Hualuxe Meeting Room 3 (5th Floor)

Time	Session	Institute
13:30-13:45	Title: Close-range remote sensing for assessment of forest carbon sequestration and flux: Opportunities and Challenges (Online) Xinlian Liang	Wuhan University
13:45-14:00	Title: Reflectance and sun-induced chlorophyll fluorescence for vegetation structural and functional traits monitoring: modelling and applications (Onsite) Peiqi Yang	University of Twente
14:00-14:15	Title: Segmentation Network with Larger Receptive Field Cannot Benefit Cloud Detection Task (Onsite) Longkang Peng, Xuehong Chen, Jin Chen, Wenzhi Zhao, Licong Liu	Beijing Normal University
14:15-14:30	Title: Impacts of Radiance Quantization on Surface Mapping: Comparisons among the Landsat Sensors (Onsite) Feng Chen, Ziqun Zhang, Wenhao Zhang, Yuejun Song	Xiamen University of Technology
14:30-14:45	Title: A model for radiative transfer in heterogeneous 3D vegetation canopies and its applications in remote sensing (Onsite) Jianbo Qi	Beijing Forestry University
14:45-15:00	Title: Quantifying the Effect of Registration Error on Deep Learning-based Spatio-Temporal Fusion Methods (Onsite) Zurui Ao	Sun Yat-sen University
15:00-15:30	Tea Break	

Sunday 8 August 2021

Session 13-2: Advances in remote sensing of environment

Chairs: Xinlian Liang Yanjun Su and Qinghua Guo Hualuxe Meeting Room 3 (5th Floor)

Time	Session	Institute
15:30-15:45	Title: Automatic surface water extraction of nine lakes in Yunnan Province based on Sentinel-1/2 data (Onsite) Mengyun Li, Liang Hong	Yunnan Normal University
15:45-16:00	Title: Mine Geological Environment Quality Assessment Technology Based on Airborne LiDAR (Onsite) Sihan Sun, Qingwu Hu, Zhumao Lu, Gong Hao	Wuhan University
16:00-16:15	Title: Spatial and Temporal Changes of Landscape Pattern in the Yellow River Delta During 30 Years (Onsite) Li Dong, Aizhu Zhang, Genyun Sun	China University of Petroleum
16:15-16:30	Title: MODIS and VIIRS LAI/FPAR Products (Onsite) Kai Yan	China University of Geoscience (Beijing)
16:30-16:45	Title: Dynamic Monitoring of Cage Culture in Danjiangkou Reservoir Based on Domestic High Resolution Satellite Imagery (Onsite) Ke Liu, Yuhang Gan, Zhengyu Luo, Lina Dong	Land Satellite Remote Sensing Application Center
16:45-17:00	Title: Study on Soil erosion of Qinhe River Basin Based on GIS and RUSLE (Online) Yiming Zhang, Weixuan Lyu, Shixiong Hu	

Sunday 8 August 2021

Session 14-1: Spatial analysis of ocean and coastal zone

Chairs: Fenzhen Su and Fengqin Yan

Hualuxe Meeting Room 6&7 (5th Floor)

Time	Session	Institute
13:30-13:45	Title: Process: An analyzing scale of geographic dynamics (Onsite) Cunjin Xue,Fenzhen Su	Aerospace Information Research Institute, CAS
13:45-14:00	Title: Topography analysis of coral reefs in Xisha Islands based on satellite data (Onsite) Xiuling Zuo,Zhengxian Duan, Guanghua Wang, Kefu Yu , Fenzhen Su, Huisheng Wu	Guangxi University
14:00-14:15	Title: Expansion of Construction Land in the Coastal Areas: A Case Study of the Guangdong - Hong Kong - Macao Greater Bay Area, China (Online) Xuege Wang, Fengqin Yan, Fenzhen Su	Nanjing University
14:15-14:30	Title: Land Use Optimization based on the Synergistic Development of Urban Agglomeration (Onsite) Tingting Pan	Institute of Geographic Sciences and Natural Resources Research, CAS
14:30-14:45	Title: Researches on sea surface temperature reconstruction based on deep learning technique (Onsite) Bo Ping	Tianjin University
15:00-15:30	Tea Break	

Sunday 8 August 2021

Session 14-2: Spatial analysis of ocean and coastal zone

Chairs: Fenzhen Su and Fengqin Yan

Hualuxe Meeting Room 6&7 (5th Floor)

Time	Session	Institute
15:30-15:45	Title: Spatial Analysis of River Mouth Based on Remotely Sensed Data (Onsite) Dongjie Fu	Institute of Geographic Sciences and Natural Resources Research, CAS
15:45-16:00	Title: Mining Coastal Land Use Sequential Patterns along the Sea-Land Direction (Onsite) Zhi Ding	Southwest University
16:00-16:15	Title: Analyzing the Offshore Hydrocarbon Exploitation Dynamics in the South China Sea Using Time-series VIIRS NTL Images (Onsite) Qi Wang,Wenzhou Wu , Fenzhen Su, Han Xiao	Shandong Jianzhu University
16:15-16:30	Title: Tidal Flat Information Extraction and Change Analysis Based on Random Forest and Water Edge Method (Onsite) Shiyi Zhao	Shandong University of Science and Technology
16:30-16:45	Title: Analysis of major tsunami prevention areas in Zhujiajian Island of China (Onsite) Jingming Hou, Yi Gao, Juncheng Wang, Wei Lu, Zhiyuan Ren	National Marine Environmental Forecasting Center

Sunday 8 August 2021

Session 15-1: Coastal Disaster Monitoring and Mitigation

Chairs: Adam Thomas Devlin and Jiayi Pan

Grand Ballroom 1 (5th Floor)

Time	Session	Institute
13:30-13:45	Title: plume dynamics in Bangladesh offshore ? (Online) Sun Yujuan	National Oceanographic Center of UK
13:45-14:00	Title: Tidal and Wind Mixing in the Arafura Sea (Online) Robin Robertson	Xiamen University Malaysia
14:00-14:15	Title: Enhanced vertical transport induced by typhoon in the northwestern South China Sea (Onsite) Xie Lingling	Guangdong Ocean University
14:15-14:30	Title: Tropical cyclone estimation from geostationary satellite using convolutional neural networks (Onsite) Xu Qing	Hohai University
14:30-14:45	Title: Response of chlorophyll-a Concentration to late autumn typhoon events in the northwestern South China Sea (Onsite) Li Junyi	Guangdong Ocean University
14:45-15:00	Title: Presentation Title to be determined (Online) Fabian S. Pramudya	Chinese University of Hong Kong
15:00-15:30	Tea Break	

Sunday 8 August 2021

Session 15-2: Coastal Disaster Monitoring and Mitigation

Chairs: Adam Thomas Devlin and Jiayi Pan

Grand Ballroom 1 (5th Floor)

Time	Session	Institute
15:30-15:45	Title: Sea level variations in China Seas (Onsite) Cheng Yongcun	PieSat Company
15:45-16:00	Title: Long-term flood-hazard risk analysis for urban area of Yangtze Estuary based on multi-platform MT- InSAR measurements and a hydrodynamic model (Online) Zhao Qing	East China Normal University
16:00-16:15	Title: A data-driven model to quantify the impact of river discharge on tide-river dynamics in the Yangtze River estuary (Onsite) Cai Huayang	Sun Yat-sen University
16:15-16:30	Title: Circulation of the Chukchi Sea shelfbreak and slope from observations (Onsite) Li Min	Guangdong Ocean University
16:30-16:45	Title: A Change Detection Method on High Resolution Synthetic Aperture Radar Imagery based on Non-local Means Filters and Thresholding Algorithms (Onsite) Tang Maochuan	East China Normal University
16:45-17:00	Title: Detection of algal blooms using Landsat-8 OLI imagery: development and testing of a novel method and evaluation of the existing indices (Online) Majid Nazeer	East China University of Technology (ECUT)

Sunday 8 August 2021

Session 16-1: Big Earth Data for Disaster Risk Reduction

Chairs: Fang Chen and Lizhe Wang

Grand Ballroom 2&3 (5th Floor)

Time	Session	Institute
13:30-13:45	Title: Exposure Elements in Disaster Databases and Availability for Local Scale Application: Case Study of Kuala Lumpur, Malaysia (Online) Fasha Muhamad	SEADPRI-Universiti Kebangsaan Malaysia, Malaysia
13:45-14:00	Title: Identifying negative labels using PU- Learning approach for automated large scale monitoring of fire risk (Onsite) Zeeshan Shirazi	CAS-TWAS Centre of Excellence on Space Technology for Disaster Mitigation
14:00-14:15	Title: Forest fire monitoring using spatial-statistical and geo-spatial analysis of factors determining forest fire in Margalla Hills, Islamabad, Pakistan (Online) Aqil Tariq, Linlin Lu, Muhammad Baqa	Wuhan University/Aerospace Information Research Institute, CAS
14:15-14:30	Title: A Geomorphic Approach for Identifying Flash Flood Potential Areas in the East Rapti River Basin of Nepal (Online) Til Prasad Pangali Sharma, Jiahua Zhang and Lkhagvadorj Nanzad	CAS-TWAS Centre of Excellence on Space Technology for Disaster Mitigation
14:30-14:45	Title: Analyzing NPP Response of Different Rangeland Types to Climatic Parameters over Mongolia (Online) Lkhagvadorj Nanzad, Zhang Jiahua and Til Prasad Pangali Sharma	CAS-TWAS Centre of Excellence on Space Technology for Disaster Mitigation
14:45-15:00	Title: The Spatial Impact Changes of Heat Wave Disasters based on Long Time Series: A Case Study of Qingdao, China (Onsite) Zhijun Jiao, Genyun Sun, Aizhu Zhang, Yuye Zhang and Zheng Li	China University of Petroleum
15:00-15:30	Tea Break	

Sunday 8 August 2021

Session:16-2: Big Earth Data for Disaster Risk Reduction

Chairs: Lizhe Wang

Grand Ballroom 2&3 (5th Floor)

Time	Session	Institute
15:30-15:45	Title: A Multi-level Dynamic Database Model of Geological Disaster Emergency Remote Sensing Monitoring (Onsite) Dandan Zhang, Yingjuan Wei, Chenchao Xiao, Jianchao Wang	Land Satellite Remote Sensing Application Center
15:45-16:00	Title: A Risk Assessment Approach of World Heritage Sites Using Land-cover Data ——the case study of Mount Emei (Onsite) Qingwu Hu, Shiman Huang	Wuhan University
16:00-16:15	Title: Increasing Compound Heat and Precipitation Extremes Elevated by Urbanization in South China (Onsite) Sijia Wu, Ting On Chan, Wei Zhang, Guicai Ning, Peng Wang, Xuelin Tong, Feng Xu, Hao Tian, Yu Han, Yongquan	Sun Yat-sen University
16:15-16:30	Title: Probabilistic prediction of thunderstorms based on lightning clusters (Onsite) Manxing Shi, Xiuguo Liu, Peng Fan	China University of Geosciences

Tuesday 10 August 2021

Session 17-1: Virtual Geographic Environments

Chairs: Min Chen Arzu Çöltekin and Chunxiao Zhang Hualuxe Meeting Room 1&2 (5th Floor)

Time	Session	Institute
08:30-08:45	Title: A knowledge-based virtual geographic environment for WRF simulation (Onsite) Chunxiao Zhang, Heng Li, Ziwei Xiao, Xinqi Zheng	China University of Geoscience (Beijing)
08:45-09:00	Title: Three-dimensional visual perception modeling of individual soldiers in combat simulation (Onsite) Congjie Guo, Bingli Xu*, Tao Jing, Yang Zhang, Hairong Hu, Lihui wang	Academy of Army Armored Force
09:00-09:15	Title: Coupled natural-human land loss modeling in the lower Mississippi river basin (Online) Heng Cai, Nina Lam, Lei Zou	Texas A&M University
09:15-09:30	Title: Analyzing Rescue Requests on Social Media to Enhance Disaster Response and Resilience (Online) Lei Zou, Bing Zhou, Binbin Lin, Nina S.N. Lam, Volodymyr Mihunov	Texas A&M University
09:30-09:45	Title: PyCLiPSM: Harnessing heterogeneous computing resources on CPUs and GPUs for accelerated digital soil mapping (Online) Guiming Zhang, A-Xing Zhu, Jing Liu, Shanxin Guo, Yunqiang Zhu	University of Denver
10:00-10:30	Tea Break	

Tuesday 10 August 2021

Session 18: Title to be determined

Chairs: Shuisen Chen Hualuxe Meeting Room 1&2 (5th Floor)

Time	Session	Institute
10:30-10:45	Title: Evaluating Road Network Capacity in the Semantic Geosp (Onsite) Rou Jiang, Sirui Yan, Jiangwei Chen, Shuohong Xie, Yiming Yang, Xiaoliang Meng, Yuchun Huang	Wuhan University
10:45-11:00	Title: Study on Coupling and Coordinated Development of Urban Spatial Expansion and Ecosystem Service Value in Typical Oasis Cities of Arid Region—take the Kashgar city as an example (Onsite) Bumairiyemu Maimaaiti, Shuisen Chen	Guangzhou Institute of Geography
11:00-11:15	Title: Optimizing UAV traffic monitoring routes with spatiotemporal variation of monitoring demand (Onsite) Qianqian Wu, Ke Wang, Chuli Hu	China University of Geosciences
11:15-11:30	Title: Time-dependent Vehicle Routing problem of City Logistics with Customer Satisfaction (Onsite) Yuanyuan Li, Qingfeng Guan1, Yao Yao	China University of Geosciences
11:30-11:45	Title: Spatial autoregressive analysis of nationwide street network patterns with global open data (Onsite) Qi Zhou, Hao Lin, Junya Bao	China University of Geosciences

Tuesday 10 August 2021

Session 19-1: Street-level Imagery Analytics

Chairs: Fan Zhang and Yu Ye

Hualuxe Meeting Room 3 (5th Floor)

Time	Session	Institute
08:30-08:45	Title: Measuring the transparency of street interface in the context of computational urban design: a large-scale analysis based on street view images and deep learning (Onsite) Yu Ye	Tongji University
08:45-09:00	Title: Photovoltaic capacity estimation on urban streets using street view image (Onsite) Teng Fei	Wuhan University
09:00-09:15	Title: What you see is what you get: Delineating the urban jobs-housing spatial distribution at a parcel scale by using street view imagery based on deep learning technique (Onsite) Yao Yao	China University of Geosciences (Wuhan)
09:15-09:30	Title: Typeface from Google Street View reveals spatial economical patterns (Onsite) Ruixian Ma	Alibaba Group
09:30-09:45	Title: Experienced Diversity: Quantifying the Connection between Street-level Urban Changes and Social Mixing (Online) Zhuangyuan Fan	The University of Hong Kong
09:45-10:00	Title: To walk or not to walk? Examining non-linear effects of streetscape greenery on walking trip propensity of older adults (Online) Linchuan Yang	Southwest Jiaotong University
10:00-10:30	Tea Break	

Tuesday 10 August 2021

Session 19-2: Street-level Imagery Analytics

Chairs: Fan Zhang and Yu Ye

Hualuxe Meeting Room 3 (5th Floor)

Time	Session	Institute
10:30-10:45	Title: City-scale mapping of urban facade color using street-view imagery (Onsite) Teng Zhong	Nanjing Normal University
10:45-11:00	Title: Interrogating the Spatial and Social Configurations of Streetscapes Using Space Syntax and GIS (Online) Shalika Dharmasthala, Qian (Chayn) Sun, Nano Langenheim	RMIT University
11:00-11:15	Title: Are high distributed streetscapes also located in the high social interaction streets (Online) Qian Sun, Nano Langenheim	RMIT University
11:15-11:30	Title: Dynamic Target Tracking and Geospatial Transformation in Place Based on DNN (Onsite) Zhigang Han, Feng Liu, Qian Li, Caihui Cui	Henan University
11:30-11:45	Title: Fine-scale Population Estimation Based on Building Classification (Onsite) Shunli Wang	Wuhan University

Tuesday 10 August 2021

Session 20-1: Cartography and Geovisualization

Chairs: Fu Ren and Yihong Yuan

Hualuxe Meeting Room 6&7 (5th Floor)

Time	Session	Institute
08:30-08:45	Title: Understanding Urban Dynamics from Bluetooth Tracking Data: An Exploratory Analysis (Online) Yihong Yuan	Texas State University
08:45-09:00	Title: Adaptively transfer expressive styles from images to digital maps and visualizations (Onsite) Mingguang Wu	Nanjing Normal University
09:00-09:15	Title: Bionic modeling of urban natural scene (Onsite) Biao He	Shenzhen University
09:15-09:30	Title: Atlas of Shenzhen: storymaps inspired by city force (Onsite) Fu Ren	Wuhan University
09:30-09:45	Title: Using map generalization to enhance spatial data matching (Onsite) Haizhong Qian	Information Engineering University
10:00-10:30	Tea Break	

Tuesday 10 August 2021

Session 20-2: Cartography and Geovisualization

Chairs: Fu Ren and Yihong Yuan

Hualuxe Meeting Room 6&7 (5th Floor)

Time	Session	Institute
10:30-10:45	Title: Improving map generalization technology using deep learning: cases and analysis (Onsite) Min Yang	Wuhan University
10:45-11:00	Title: A Novel Approach to 3D Reconstruction Technology of Small Cultural Relics Based on Spatial Coded Texture Image Projection (Onsite) Yuting Chen, Qingwu Hu, Zhumao Lu, Hao Gong	Wuhan University
11:00-11:15	Title: Vision-Based Movement Recognition of Badminton Players Using Deep Learning and Binocular Positioning (Onsite) Jiabei Luo, Yujie Hu, Xiang Li	East China Normal University
11:15-11:30	Title: A city 3D model construction method based on 3ds Max and Smart 3D (Onsite) Jincai Xu, Chaokui Li, Jianhui Chen	Hunan University of Science and Technology

Tuesday 10 August 2021

Session 21-1: Spatially Integrated Humanities and Social Sciences

Chairs: Kun Qin and Yaolong Zhao

Grand Ballroom 1 (5th Floor)

Time	Session	Institute
08:30-08:45	Title: Silk Road Historical Geographical Information System (Online) Yangfang Hou	Fudan University
08:45-09:00	Title: Big Social Media Data Analytics: Approaches and Applications in Disaster Management (Online) Zhenlong Li	University of South Carolina
09:00-09:15	Title: A Review of Historical GIS and Its Trend (Onsite) Yaolong Zhao	South China Normal University
09:15-09:30	Title: A Review of Spatially Integrated Humanities and Social Sciences (Onsite) Kun Qin	Wuhan University
09:30-09:45	Title: Estimation of Regional Economic Development Indicator from Transportation Network Analytics (Onsite) Song Gao	University of Wisconsin-Madison
09:45-10:00	Title: Identifying temporal patterns of multilateral spatial interactions: Using international trades as an example (Online) Wei Luo, May Yuan	National University of Singapore
10:00-10:30	Tea Break	

Tuesday 10 August 2021

Session 21-2: Spatially Integrated Humanities and Social Sciences

Chairs: Qingxiang Meng and Jianglei Jin

Grand Ballroom 1 (5th Floor)

Time	Session	Institute
10:30-10:45	Title: Simulating urban land use changes by incorporating logistic regression and CLUE-s model: a case study of Wuhan city (Onsite) Kaifeng Peng, Weiguo Jiang, Yue Deng	Beijing Normal University
10:45-11:00	Title: Analysis of Factors Influencing CO2 Emissions in Africa Based on the Extended STIRPAT Model (Onsite) Jun Zhang, Qingxiang Meng	Wuhan University
11:00-11:15	Title: Monitoring Resumption of Work and Production in Wuhan Built-up Area During COVID-19 Based on NPP-VIIRS and Landsat 8 Data (Onsite) Yin Zhang, Qingwu Hu, Xi Li	Wuhan University
11:15-11:30	Title: Spatial Differentiation of Traditional Villages: A Case Study of Gansu Province (Onsite) Haowen Yan, Jianglei Jin	Lanzhou Jiaotong University
11:30-11:45	Title: Spatial spillover effects of investment-induced gentrification: The case of the Shenzhen (Onsite) Jin Zeng, Yang Yue, Qili, Gao, Tianhong Zhao	Shenzhen Key Laboratory of Spatial Smart Sensing and Services
11:45-12:00	Title: Comparative ecological network pattern analysis: An application to Nanchang (Onsite) Binbin Ma, Zhu-an Chen	East China University of Technology

Tuesday 10 August 2021

Session 22-1: Spatiotemporal big data for territorial spatial planning

Chairs: Xinqi Zheng and Chunxiao Zhang

Grand Ballroom 2&3 (5th Floor)

Time	Session	Institute
08:30-08:45	Title: Monitoring Agricultural Land Use Change Based on Remote Sensing Cloud Computing (Onsite) Jinwei Dong	Institute of Geographic Sciences and Natural Resources Research, CAS
08:45-09:00	Title: A map of land resources and territorial spatial planning (Online) Wenhua Guo	Ministry of Natural Resources of the People's Republic of China
09:00-09:15	Title: Technology And Application of Resource Big Data and Territorial Spatial Planning Scheme Optimization (Onsite) Xinqi Zheng	China University of Geosciences in Beijing
09:15-09:30	Title: Innovating Geospatial Big data Ecosystem for sustainable development (Onsite) Yueqin Zhu	Development Research Center of China Geological Survey
09:30-09:45	Title: Constraint Principal Curves Algorithms for GPS Track Data Fusion (Onsite) Dewang Chen	Fuzhou University
09:45-10:00	Title: Discussion on the Practice of Data Processing of GNSS Precise Point Positioning (Onsite) Xiliu Yang, Jiudong Yang	University of Waterloo
10:00-10:30	Tea Break	

Tuesday 10 August 2021

Session 22-2: Spatiotemporal big data for territorial spatial planning

Chairs: Xinqi Zheng and Chunxiao Zhang

Grand Ballroom 2&3 (5th Floor)

Time	Session	Institute
10:30-10:45	Title: Land degradation monitoring using time series of multi-sensor data: A case study (Onsite) Jinquan Ai, Chunmei Niu, Jiangtao Zhu, Huangjing Li	East China University of Technology
10:45-11:00	Title: Optimizing Efficient Sharing of hyper Massive Spatiotemporal Trajectory Data in a Smart City (Onsite) Lianjie Zhou, Wei Tu, Qingquan Li	Shenzhen Key Laboratory of Spatial Information Smart Sensing
11:00-11:15	Title: Identifying the relationship between air quality and road network cellular pattern in China (Onsite) Jing Tian, Yuhan Liao, Yiheng Wang, Chang Ren	Wuhan University
11:15-11:30	Title: Urban Functional Area Identification Method and its Application Combined OSM Road Network Data with POI Data (Onsite) YANG Jian, LI Chaokui, LIU Yan	Hunan University of Science and Technology
11:30-11:45	Title: Multipurpose Temporal GIS Model for Cadastral Data Management (Onsite) Joseph Mango, Xiang Li	East China Normal University

Tuesday 10 August 2021

Session 17-2: Virtual Geographic Environments

Chairs: Min Chen Arzu Çöltekin and Chunxiao Zhang Hualuxe Meeting Room 1&2 (5th Floor)

Time	Session	Institute
13:30-13:45	Title: Data Assimilation and Information Integration Sharing of Sichuan-Tibet Railway Disaster Risk (Onsite) Yulin Ding	Southwest Jiaotong University
13:45-14:00	Title: Green View Index Estimation Method Based On Three-dimensional Simulation of Urban Tree Landscape (Onsite) Liyu Tang and Chongcheng Chen	Fuzhou University
14:00-14:15	Title: A simplification method of disaster virtual geographic scenes based on tunnel vision (Onsite) Lin Fu, Jun Zhu, Weilian Li, Pei Dang, Jigang You	Southwest Jiaotong University
14:15-14:30	Title: A mobile virtual reality system for intelligent highway simulation teaching (Onsite) Pei Dang, Jun Zhu, Weilian Li, Lin Fu, Jianlin Wu, Xiaoqi Qiao	Southwest Jiaotong University
14:30-14:45	Title: Digital Twin 3D Spatial Information Platform of Sichuan-Tibet Railway (Onsite) Qing Zhu	Southwest Jiaotong University
14:45-15:00	Title: Symbolization Fusion Method of Dynamic Information and Map Based on OGC SLD (Onsite) Songshan Yue, Jingming Pan, Yongning Wen, Min Chen, Guonian Lv	Nanjing Normal University
15:00-15:30	Tea Break	

Tuesday 10 August 2021

Session 17-3: Virtual Geographic Environments

Chairs: Min Chen Arzu Çöltekin and Chunxiao Zhang Hualuxe Meeting Room 1&2 (5th Floor)

Time	Session	Institute
15:30-15:45	Title: A Perception Model for Optimizing and Evaluating Evacuation Guidance Systems (Onsite) Lin Huang, Jianhua Gong, Wenhong Li	Aerospace Information Research Institute, CAS
15:45-16:00	Title: Supporting Distance Estimations in Immersive Virtual Geographic Environments (Online) Dennis Edler	Ruhr-Universität Bochum RUB
16:00-16:15	Title: Teaching spatial tasks in VGE. (Online) Petr Kubíček	Geografický ústav Masarykova univerzita
16:15-16:30	Title: Co-visualization of environmental data in urban spaces (Online) Sidonie Christophe	LASTIG/GEOVIS Team Leader
16:30-16:45	Title: Human factors in VR: A focus on aging and navigation (Online) Arzu Çöltekin	University of Applied Sciences and Arts Northwestern Switzerland FHNW
16:45-17:00	Title: Embodied digital twins, paradigmatic change for place-based decision making (Online) Klippel Alexander	The Pennsylvania State University

Tuesday 10 August 2021

Session 23: Spatial cognition in the mobile information era

Chairs: Weihua Dong Haosheng Huang and Amy Griffin Hualuxe Meeting Room 3 (5th Floor)

Time	Session	Institute
13:30-13:45	Title: Geospatial cognition based on brain neural mechanisms (Onsite) Weihua Dong	Beijing Normal University
13:45-14:00	Title: Choose your own route – supporting pedestrian navigation without restricting the user to a predefined route (Online) Haosheng Huang	Ghent University, Belgium
14:00-14:15	Title: Cultural Differences in Perception of Point Symbols Between Australian and Chinese Map Users (Online) Bradley Denney, Amy L. Griffin, Zdeněk Stachoň	Bespoke Maps & Data, Melbourne, Australia
14:15-14:30	Title: Cognition of digital twin environments using eye tracking (Onsite) Shulei Zheng	Information Engineering University
14:30-14:45	Title: Spatial cognition difference in GE wayfinding (Onsite) Shen Ying	Wuhan University
14:45-15:00	Title: Identifying Map Users with Eye Movement Data from Self-Localization and Spatial Orientation Tasks (Onsite) Hua Liao	Hunan Normal University
15:00-15:30	Tea Break	

Tuesday 10 August 2021

Session 24: Geospatial Intelligence

Chairs: Kai Cao

Hualuxe Meeting Room 3 (5th Floor)

Time	Session	Institute
15:30-15:45	Title: An ILS-based hybrid algorithm for solving the facility location-allocation problems (Onsite) Kong Yunfeng	Henan University
15:45-16:00	Title: Research on Domain Variable Identification among Different Data Cubes (Onsite) Yanling Yang, Jingsongdi Yu, Ruiju Tong	Fuzhou University
16:00-16:15	Title: Step-wise Building Shadow Detection in GaoFen-2 Images (Onsite) Hui Huang, Yi Jing, Genyun Sun	Shanghai Advanced Research Institute
16:15-16:30	Title: Design and application of storage and query algorithm for vector spatial data based on Hbase (Onsite) Lichaokui, Wang Luyao, Xiao Keyan	Hunan University of Science and Technology
16:30-16:45	Title: An improved framework for multilane roads extraction to study the influence of the number of feature dimensions (Onsite) Kunkun Wu, Maosheng Hu, Zhong Xie	China University of Geosciences

Tuesday 10 August 2021

Session 25-1: Geocomputation

Chair: Wu Huayi

Hualuxe Meeting Room 6&7 (5th Floor)

Time	Session	Institute
13:30-13:45	Title: Air quality modeling and simulation at the street-level (Onsite) Hongquan Song,Haipeng Zhao, Tuanhui Wang, Youngseob Kim	Henan University
13:45-14:00	Title: Modeling the stream bank stability in Paradise Creek Watershed, PA Using GIS (Online) Shixiong Hu,Mengya Jia, Jeffrey Hardy	
14:00-14:15	Title: Extracting trajectories of earthworms using computer vision (Onsite) Huili Jin,Xiang Li	East China Normal University
14:15-14:30	Title: Dynamic load balancing based on parallel geographic cellular automata (Onsite) Wei Xia	China University Of Geosciences
14:30-14:45	Title: A Novel Multi-Label Classification Method for WMS Metadata based on Text GCN and SWEET (Onsite) Zhiping Gui,Zhengyang Wei, Min Zhang, Huayi Wu	Wuhan University
15:30-16:00	Tea Break	

Tuesday 10 August 2021

Session 25-2: Geocomputation

Chair: Wu Huayi

Hualuxe Meeting Room 6&7 (5th Floor)

Time	Session	Institute
15:30-15:45	Title: How the Three Gorges Project (TGP) affects local precipitation (Onsite) Qin Li,Xiuguo Liu, Yulong Zhong, Mengmeng Wang, Manxing Shi	China University of Geosciences
15:45-16:00	Title: An Approach to Optimize the Locations of Electric Fences for Dockless Shared Bicycles Based on the Particle Swarm Optimization (Onsite) Min Cao,Shangjing Ma, Boqin Cai	State Key Laboratory Cultivation Base of Geographical Environment Evolution
16:00-16:15	Title: Understanding Completeness and Diversity Patterns of OSM-Based Land-Use and Land-Cover Dataset in China (Onsite) ShuZhu Wang ,Qi Zhou, YuanJian Tian	China University of Geosciences
16:15-16:30	Title: Assessment of Groundwater potential sites by using GIS and Remote sensing intergrating with multi-criteria decision making technique (Online) Neema Simon Sumari, Calvin Samwel Swai, Paulo Julius Mandela	Sokoine University of Agriculture,Tanzania
16:30-16:45	Title: Assessment of residential visual exposure in high density residential environments (Onsite) He Zheng, Bo Wu, Hui Lin	Jiangxi Normal University

Tuesday 10 August 2021

Session 26-1: Modeling Global Change and Sustainable Development

Chairs: Yimin Chen and Xia Li

Grand Ballroom 1 (5th Floor)

Time	Session	Institute
13:30-13:45	Title: Assessing the relative contributions of global urban expansion and climate change to terrestrial NPP from 2000 to 2010 (Onsite) Fengsong Pei	Jiangsu Normal University
13:45-14:00	Title: Incorporating spatio-temporal connectivity for prioritized conservation of individual habitat patches in a dynamic landscape (Onsite) Dianfeng Liu	Wuhan University
14:00-14:15	Title: Deciphering the evolution of China's megaregions (Onsite) Shiliang Su	Wuhan University
14:15-14:30	Title: Uneven urban expansion in global watersheds (Onsite) Qingxu Huang , Han Zhang	Beijing Normal University
14:30-14:45	Title: How to minimize the impacts of urban expansion on farmland loss: developing a few large or many small cities (Onsite) Guohua Hu , Xia Li	East China Normal University
14:45-15:00	Title: Urbanization projections under the shared socioeconomic pathways (Onsite) Yimin Chen	Sun Yat-sen University
15:00-15:30	Tea Break	

Tuesday 10 August 2021

Session 26-2: Modeling Global Change and Sustainable Development

Chairs: Yimin Chen and Xia Li

Grand Ballroom 1 (5th Floor)

Time	Session	Institute
15:30-15:45	Title: Assessment on Ecological Services Using Trends of Net Primary Productivity: A Case Study of Shennongjia Forest Reserve (Onsite) Cuiping Wang, Sirui Yan, Xinshuang Wang, Zelin Xu, Jing Xiong, Zehua Wu, Ding Zhang, Hua Zhang, Xiaoliang Meng	Wuhan University
15:45-16:00	Title: Monitoring and Evaluation Ecological Environment Quality Change Based on RSEI Model in Myanmar section of the Golden Quadrangle Region in the border of China, Myanmar, Thailand and Laos (Onsite) Xingyun Zhang, Liang Hong	Yunnan Normal University
16:00-16:15	Title: Urbanization effects on high-frequency temperature variability over South China (Onsite) Xuelin Tong, Ming Luo, Peng Wang, Sijia Wu, Feng Xu, Hao Tian, Yu Han	Sun Yat-Sen University
16:15-16:30	Title: Urbanization contribution to human perceived temperature changes in major urban agglomerations of China (Onsite) Peng Wang, Ming Luo, Weilin Liao, Yong Xu, Sijia Wu, Xuelin Tong, Hao Tian, Feng Xu, Yu Han	Sun Yat-sen University

Tuesday 10 August 2021

Session 27: Remote Sensing for Coastal Sustainability

Chairs: Hongsheng Zhang Mingming Jia and Yiping Chen Grand Ballroom 2&3 (5th Floor)

Time	Session	Institute
13:30-13:45	Title: Retrieving Coastal Chlorophyll-A Concentration from Time-Series Remote Sensing Data Based on Machine Learning (Onsite) Hua Su	Fuzhou University
13:45-14:00	Title: New series of knowledge-driven wetland vegetation mapping methods with GEE (Onsite) Jinyan Tian	Capital Normal University
14:00-14:15	Title: Identifying the impacts of urbanization on mangroves: A comparative study in Southeast Asia (Onsite) Shan Wei, Hongsheng Zhang	The University of Hong Kong
14:15-14:30	Title: Rapid, robust, and automated mapping of tidal flats in China using time series Sentinel-2 images and Google Earth Engine (Onsite) Mingming Jia	Northeast Institute of Geography and Agroecology, CAS
14:30-14:45	Title: Spatial and temporal changes of landscape patterns in the yellow river delta during 30 years (Onsite) Dong Li, Zhijun Jiao, Genyun Sun	China University of Petroleum
14:45-15:00	Title: Fusing optical and polarimetric SAR features for urban land-use and land-cover classification and impervious surface extraction (Onsite) Yu Li	Beijing University of Technology
15:00-15:15	Title: The impacts of clouds on urban land cover classification using optical and radar images (Onsite) Jing Ling, Yinyi Lin, Hongsheng Zhang	The University of Hong Kong
15:15-15:30	Title: Detection of individual trees in airborne LiDAR point clouds using a deep learning framework based on multi-channel representation (Onsite) Yiping Chen	Xiamen University
15:30-16:00	Tea Break	