



CPGIS



Huanghe Jiaotong University

The 32nd International Conference on Geoinformatics in 2025

GIScience for High-quality Development

June 15–18, 2025 Jiaozuo, China

Organizers: Huanghe Jiaotong University

The International Association of Chinese Professionals in Geographic Information Sciences (CPGIS)

Technical Co-Sponsor: IEEE Geoscience and Remote Sensing Society (IEEE GRSS)

Co-Organizers: Henan Provincial Committee of the China Democratic National Construction Association

Henan Provincial Committee of the China Association for Promotion Democracy

Institute of Geographical Sciences, Henan Academy of Sciences

Henan Society for Geodesy Photogrammetry and Cartography

Faculty of Geographical Science and Engineering, Henan University

Key Research Institute of Yellow River Civilization and Sustainable Development, Henan University

Henan Polytechnic University

School of Geographical Sciences, Shanxi Normal University

Jiaozuo Geographic Information Industrial Park

黄河交通学院





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前言 Preface

The International Conference on Geoinformatics, an official event of the International Association of Chinese Professionals in Geographic Information Sciences (CPGIS), has become a major annual gathering for not only CPGIS members but also students, researchers, and professionals from various fields around the world. Each year, the conference takes place in a different global city, offering a rich platform for exchanging ideas and fostering collaboration. We are excited to announce that the 32nd annual conference will be held in Jiaozuo, China, in 2025.

Geoinformatics 2025 (the 32nd CPGIS Annual Conference) will be held on June 15–18, 2025 at the Huanghe Jiaotong University, Jiaozuo, China. The theme of the conference is GIScience for High-quality Development. Addressing the challenges and opportunities of coordinated high-quality development we have faced in recent years, especially in the post-COVID-19 Era, Geoinformatics 2025 particularly encourages topics related to how geographic information sciences and technologies respond to regional high-quality development. Other presentations regarding cutting-edge research on or related to broadly defined geographic information sciences, technologies, and applications, are also welcome, as always.



Huanghe Jiaotong University (HJU) was founded in 1995, formerly known as Zhengzhou Vocational College of Transportation. In 2014, it was upgraded to a regular undergraduate university with the approval of the Ministry of Education. It is the only application-oriented undergraduate institution in Henan Province that focuses on cultivating transportation talents. The school is located in the hinterland of the Central Plains, covering an area of over 2200 acres, and currently has 27248 full-time students. In 2023, the university successfully underwent the undergraduate teaching work qualification evaluation by the Ministry of Education, and in 2025, it was approved as a key project for the granting of master's degrees in Henan Province. Currently, the university has established the "1368" development strategy and is committed to building a high-level applied university.

The university adheres to the educational philosophy of "integrating knowledge with practice and developing distinctive features", and takes it as its responsibility to serve the strategy of building a strong transportation and education province. It has established a professional system with engineering as the core, integrating disciplines such as management, economics, arts, and law for coordinated development. There are currently 9 secondary colleges with 42 undergraduate majors, including 3 provincial key disciplines of Transportation Engineering, Machinery, and Business Administration, 3 provincial first-class undergraduate majors of Vehicle Engineering, Transportation Engineering, Mechanical Design and Manufacturing and Automation, and 8 provincial private university brand majors.

The institution upholds the talent cultivation concept of "education oriented, moral education first, ability oriented, and comprehensive development", forming the four-pronged educational features of "ideological and political education, transportation-themed education, collaborative education, and cultural education". It has established the National Intelligent Clean Energy Vehicle Quality Inspection and Testing Center (the only one in the province), 6 provincial-level scientific research platforms, and 16 municipal level scientific research platforms. Relying on 3 provincial key industrial colleges (Intelligent Construction, Intelligent Connected Vehicles, and Kunpeng), the university deepens industry-education integration, innovates the "STEM+ABCD" talent training model, and has contributed over 80,000 high-quality applied-oriented professionals to the nation.

In recent years, the school has been awarded nearly a hundred honorary titles such as "Civilized School of Henan Province", "Top 10 Demonstration Colleges for Employment Quality of Higher Education in Henan Province", and "Model University for National Defense Education in Henan Province". In the future, the school will focus on the development strategy of "1368", optimize the layout of disciplines, strengthen the cultivation of master's degree programs, and contribute greater strength to the high-quality development of regional economy, society, and transportation industry.



组织架构 Organization

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Junfeng Wang	Huanghe Jiaotong University
Shaotang Liu	Huanghe Jiaotong University
Mengtian Wu	Huanghe Jiaotong University
Zhiwei Ma	Huanghe Jiaotong University
Hanxiong Li	Huanghe Jiaotong University
Zhiqiang Miao	Huanghe Jiaotong University
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Yaoping Cui	Faculty of Geographic Science and Engineering, Henan University
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Shukai Li	Jiaozuo Geographic Information Industry Park
Nan Zhang	Jiaozuo Geographic Information Industry Park
Jun Du	Institute of Geography, Henan Academy of Sciences
Xuejun Zhou	Henan Surveying and Mapping Society

E

专家简介 Keynote Speakers



Huadong Guo

Huadong Guo is Director General of the International Research Center of Big Data for Sustainable Development Goals (CBAS), and a professor of Chinese Academy of Sciences (CAS) Aerospace Information Research Institute. He is an Academician of CAS, a Foreign Member of the Russian Academy of Sciences, a Foreign Member of the Finnish Society of Sciences and Letters, a Fellow of the World Academy of Sciences (TWAS), and a Fellow of the International Science Council (ISC). He presently serves as Honorary President of the International Society for Digital Earth (ISDE), Director of the International Center on Space Technologies for Natural and Cultural Heritage under the Auspices of UNESCO, Member of the ISC Global Commission on Science Missions for Sustainability, Chair of Digital Belt and Road Program (DBAR), and editor-in-chief of two scientific journals International Journal of Digital Earth and Big Earth Data. He served as member of UN 10-Member Group to support the Technology Facilitation Mechanism for SDGs appointed by the UN Secretary General, President of ISDE and ICSU Committee on Data for Science and Technology (CODATA). Prof. Guo specializes in remote sensing, radar for Earth observation, and Digital Earth science. He has published more than 500 papers and 24 books, and is the awardee of 23 international and domestic prizes.



Jiayao Wang

Jiayao Wang is an Academician of the Chinese Academy of Engineering who specializes in cartographic theory, Geographic Information Systems, grid-based geographic information services, and spatiotemporal big data research. His work supports China's "Ecological Protection and High-Quality Development of the Yellow River Basin" strategy and regional development needs. He has led over 20 national and military research projects and participated in 5 Chinese Academy of Engineering strategic consulting projects. His achievements include a National Science and Technology Progress Award (Second Prize), National Teaching Achievement Award (First Prize), four Military Science and Technology Progress Awards (First Prize), and a National Defense Science and Technology Award (Second Prize). He has authored 17 books and textbooks, with three receiving national first prizes for outstanding surveying and mapping textbooks. Among his numerous honors are the State Council Special Allowance (1993), the "Human Ladder Award" by the former General Staff Department (1998), National Outstanding Science and Technology Worker (2001), Outstanding Contribution Award from the Chinese Society for Geodesy, Photogrammetry and Cartography (2019), and the Lifetime Achievement Award from the Geographical Society of China (2021).



专家简介 Keynote Speakers



Jianya Gong

Jianya Gong is a professor of Wuhan University and an academicien of Chinese Academy of Sciences. He is the winner of the National Outstanding Youth Fund, the Distinguished Professor of "Changjiang Scholars" of the Ministry of Education, the chief scientist of the 973 Project, the academic leader of the Innovation Group of the National Natural Science Foundation, the leading scientific and technological talents of the State Bureau of Surveying and Mapping, and the convenor of the Surveying and Mapping Discipline Group of the Sixth and Seventh Subject Review Groups of the State Council. He was the director of the State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing and the Dean of the School of Remote Sensing Information Engineering of Wuhan University. He has served as ISPRS workgroup chair for three times, and was the president of the Commission VI of the International Society of Photogrammetry and Remote Sensing, president of International Association of Chinese Professionals in Geographic Information Sciences. He is currently the Secretary-General of the Asian Association for Geographic Information Systems, associate editor of *Acta Geodaetica et Cartographica Sinica* and editor-in-chief of *Journal of Geodesy and GeoInformation Science*.

Dr. Jianya Gong is mainly engaged in the research of remote sensing and geographic information system. He has undertaken more than 40 national and provincial scientific research projects. He has published 13 monographs and textbooks, and more than 500 papers. He has won the National Science and Technology Innovation Team Award once, the first prize once and the second prize for 4 times of the National Science and Technology Progress Award, the provincial and ministerial level special prize for 3 times and the first prize for 7 times, and the Dolezal Achievement Award of the International Society of Photogrammetry and Remote Sensing.



Shixiong Hu

Shixiong Hu is currently a professor at East Stroudsburg University of Pennsylvania in the United States and serves as the director of the GIS and Hydrology Laboratory. Currently, he also holds the position of president at Huanghe Jiaotong University and is a second-level professor. He previously served as president of the Water Resources Association of the American Association of Geographers, president and executive committee chair of the International Association of Chinese Professionals in Geographic Information Sciences (CPGIS). His main research areas include physical geography, river dynamics in civil engineering, and GIS applications. In recent years, he has published over 70 high-quality papers in leading domestic and international journals, delivered nearly 100 invited and keynote speeches as conference or session chair at international conferences, authored or edited nearly 10 monographs and conference proceedings, and obtained 4 patents. He has led more than 30 national and provincial-level research projects.



专家简介 Keynote Speakers



Qingquan Li

Qingquan Li is academican of Chinese Academy of Engineering, Vice President of Chinese Society for Geodesy, Vice President of Chinese Society for Geodesy, Photogrammetry and Cartography (CSGPC). Long engaged in the theoretical and applied research of dynamic precision engineering measurement and spatial perceptual intelligence, he has achieved innovation in measurement theory, sensors, measurement technology, processing methods and high-end equipment adopting multidisciplinary and integrative approaches. Characterized by theoretical innovation, equipment development and industrial application, his research has served in the construction of highways, railways, bridges, tunnels, water conservancy, municipal infrastructure and smart cities in 32 provinces and cities in China, transforming China's high-end measurement equipment from import to export. His research results include more than 30 projects of 973 Plan and National Natural Science Foundation of China (NSFC), over 50 authorized national invention patents, 8 authorized international invention patents, 9 monographs, and over 300 academic papers.

He has won 1 Second Prize of National Technology Invention Award, 1 Second Prize of National Science and Technology Progress Award, 1 National Science and Technology Progress Innovation Team Award, 1 Second Prize of National Teaching Achievement, and 7 first prizes of Science and Technology Progress at the provincial and ministerial levels. He was also the winner of Ho Leung Ho Lee Science and Technology Progress Award, National Award for Excellence in Innovation, and a top 2% scientist world by Stanford University for his wide career-long impact.



Jing Ming Chen

Jing Ming Chen is a professor at the University of Toronto, and Fellow of the Royal Society of Canada. He is also the director of the Academy of Carbon Neutrality of Fujian Normal University and the director of the International Institute of Earth System Science at Nanjing University. His major research interests include vegetation remote sensing, flux measurement, and terrestrial carbon and water cycles. He has published over 500 refereed papers, which are cited over 51,000 times with an H index of 112 (Google Scholar). He is currently an editor-in-chief of Remote Sensing of Environment and an associate editor of Journal of Geophysical Research: Biogeosciences, Canadian Journal of Remote Sensing, and The Innovation Geoscience. He currently serves on the Expert Panel of the Global Change Program of the Chinese Ministry of Science and Technology, Scientific Steering Committee of the American Flux Network, and International Advisory Committee of the International Research Center for Big Data for the Sustainable Development Goals (CBAS) of the United Nations.



专家简介 Keynote Speakers



Hui Lin

Hui Lin, Fellow of British Academy of Social Science and Academician of Eurasian Academy of Sciences. He is a professor and the Dean at the School of Geography and Environment at Jiangxi Normal University & Emeritus Professor in the Department of Geography and Resource Management at The Chinese University of Hong Kong. He is the Founding President and Honorary President of CPGIS, and Vice Chairman of China National Committee of International Society of Digital Earth.



Mei-Po Kwan

Mei-Po Kwan is Choh-Ming Li Professor of Geography and Resource Management, Head of Chung Chi College, Director of the Institute of Space and Earth Information Science, and an affiliated faculty of the JC School of Public Health and Primary Care at the Chinese University of Hong Kong. Prof. Kwan is a Guggenheim Fellow and a Fellow of the U.K. Academy of Social Sciences, the American Association for the Advancement of Science (AAAS), the Royal Geographical Society (U.K.), the American Association of Geographers (AAG), and the Geographical Society of China. She received many prestigious awards and honors from the AAG, including the Distinguished Scholarship Honors, the Anderson Medal of Honors in Applied Geography, the Wilbanks Prize for Transformational Research in Geography, the Stanley Brunn Award for Creativity in Geography, the Melinda Meade Award for Outstanding Contributions to Health and Medical Research, and the Edward L. Ullman Award for Outstanding Contributions to Transportation Geography. Prof. Kwan received two lifetime achievement awards (one from the International Geographical Union and the other from the International Association of Chinese Professionals in Geographic Information Sciences). According to the list of the World's Top 2% Scientists by Stanford University, she was ranked No. 5 in the world in the field of geography in 2024. In the 2023 Global Scholar Database's Lifetime Academic Impact List, Kwan ranked first nationally in the field of geography.

Prof. Kwan has published over 500 journal articles, books, and book chapters. She has received research grants of more than USD 64.5 million and has delivered over 400 keynote addresses and invited lectures in more than 20 countries. Prof. Kwan has made ground-breaking contributions to research on environmental health, human mobility, smart cities, and geographic information science (GIScience). She is a leading researcher in deploying real-time GPS tracking and mobile sensing to collect individual-level data in environmental health research and uses them in building future and sustainable cities.



专家简介 Keynote Speakers



Shuanggen Jin

Shuanggen Jin, a foreign academician of the Russian Academy of Natural Sciences, a member of the European Academy of Sciences, a member of the European Academy of Humanities and Natural Sciences, a member of the Turkish Academy of Sciences, a member of the American Academy of Electromagnetic Sciences, and the academic vice president, professor, and doctoral supervisor of Henan University of Technology. Shuanggen Jin is mainly engaged in research on intelligent navigation, geodetic surveying, environmental remote sensing, and space planetary exploration and applications. Shuanggen Jin has led over 20 projects including the European Space Agency (ESA), Sino German International Cooperation and National Key R&D Program, and National Natural Science Foundation of China. Shuanggen Jin has published over 280 SCI papers in top or important international journals, authored multiple monographs, and has been cited over 9000 times by Nature and other journals, with an H-index greater than 50.



Chuang Tao

Chuang Tao is an entrepreneur, and a researcher with vision and passion on geospatial technology and its broad applications. Dr. Tao is Founder of wayz.ai, who innovates the spatial-temporal AI technology for smart cities and businesses. As Chairman of Z Ventures Group, Dr. Tao has invested and incubated nearly 100 companies in the tech sector. Dr. Tao is adjunct professor of five universities and actively involved in technology innovations. Dr. Tao is founding partner and former CEO of PPTV, China's leading online TV provider who has served over 300 million active user worldwide. Dr. Tao founded his first company GeoTango who pioneered the first internet 3D mapping system and was acquired by Microsoft. Dr. Tao was the founding member of Microsoft Virtual Earth program and took a leadership on the development of the Microsoft's global mapping platform serving for over 120 countries and regions.

Prior to his entrepreneur venture, Dr. Tao held Canada Research Chair Professorship at York University, Toronto. Dr. Tao has authored and co-authored over 200 technical papers, and holds a number of technical patents, Vincent has received many international awards for his achievements both in academia and industry. Recently, he received his Honoria Doc Degree of Laws from York University rewarding his contributions to the society. Dr. Tao has also contributed to the establishment of Tao's Student Engineering Scholarship at York University, and ST-AI Innovation Research Program at Wuhan University.



会议日程一览表 Program Overview

Session Schedule June 15–18, 2025

June 15 , 2025			
Time	Session	Chair	Location
9:00-21:00	Registration		Wanda Jin Wuzhi Hotel
18:30-20:30	Round Table Dinner & Exchange	Hui Lin	Wanda Jin Wuzhi Hotel

June 16 , 2025			
Time	Session	Chair	Location
7:00-8:30	Breakfast Buffet		Wanda Jin Wuzhi Hotel
9:00-9:50	Opening Ceremony	Shixiong Hu	Lecture Hall 1 Building 15
9:50-10:10	Group Photo		In front of the Library Building
10:10-10:55	Keynote Speech: Synergetic Retrieval of Leaf Area Index and Leaf Chlorophyll Content Using Remote Sensing Data Jing Ming Chen	Song Gao	Lecture Hall 1 Building 15
10:55-11:40	Keynote Speech: Interdisciplinary integration empowers regional sustainable development Qingquan Li		Lecture Hall 1 Building 15
11:40-12:10	Keynote Speech: Space-air-ground integration remote sensing and applications of ecological environment in the Yangtze River and Yellow River Basins Shuanggen Jin		Lecture Hall 1 Building 15
12:10-13:30	Lunch Buffet		Wanda Jin Wuzhi Hotel
13:30-15:10	Session 1.1: Geospatial Big Data and GeoAI for the innovation of New Productivity	Guiming Zhang	Lecture Hall 2, 1st Floor, Building 17
13:30-15:10	Session 2.1: GIS and RS for local development solutions	Dazhi Li	Lecture Hall 3, 1st Floor, Building 17
13:30-15:10	Session 3.1: Watershed health and management for the Well-being of the Yellow River	Kuangchao Wu	711, Building 17
13:30-15:10	Session 4: Geocomputation for Social Science	Jianlong Wang	816, Building 17
13:30-15:10	Session 5.1: Geospatial Science for High - Quality Urban Planning	Yaoping Cui	702, Building 17
13:30-15:10	Session A: Poster Exhibition Presentation		West Hall, 7th Floor, Building 17
15:10-15:30	Tea Break		
15:30-17:30	Session 6: Cartography and Geovisualization for high-quality information dissemination	Shiyan Zhai	Lecture Hall 2, 1st Floor, Building 17
15:30-17:30	Session 2.2: GIS and RS for local development solutions	Qingfeng Guan	Lecture Hall 3, 1st Floor, Building 17
15:30-17:30	Session 3.2: Watershed health and management for the Well-being of the Yellow River	Dazhi Li	711, Building 17

会议日程一览表 Program Overview

June 16 , 2025			
Time	Session	Chair	Location
15:30-17:30	Session 7.1: Advanced GIScience theory and method developments	Jiaqi Sun	816, Building 17
15:30-17:30	Session 5.2: Geospatial Science for High - Quality Urban Planning	Ting Jin	702, Building 17
15:30-17:30	Session B: Poster Exhibition Presentation		West Hall, 7th Floor, Building 17
17:00-18:00	CPGIS Business Meeting		Lecture Hall 2, 1st Floor, Building 17
17:30-19:00	Dinner Buffet		Wanda Jin Wuzhi Hotel
19:00-21:00	CPGIS NIGHT	Shixiong Hu	Lecture Hall 1 Building 15

June 17 , 2025			
Time	Session	Chair	Location
7:00-8:30	Breakfast Buffet		Wanda Jin Wuzhi Hotel
8:30-9:10	Keynote Speech: SDGSAT-1 Mission and Its Role for SDG Indicators Monitoring Huadong Guo	Hui Lin	Lecture Hall 1 Building 15
9:10-9:50	Keynote Speech: Towards space-time AI and its generalized applications and practices Chuang Tao		
9:50-10:10	Tea Break		
10:10-10:50	Keynote Speech: Geospatial Artificial Intelligence (GeoAI) for Sustainable and Healthy City Research Mei-po Kwan	Shixiong Hu	Lecture Hall 1 Building 15
10:50-11:30	Keynote Speech: Creative Inheritance and Innovative Development: The Developmental Trajectory of GIS in China Jiayao Wang		Lecture Hall 1 Building 15
11:30-12:10	Keynote Speech: Development and Application of Open GeoSpatial Engine Jianya Gong		Lecture Hall 1 Building 15
12:10-13:30	Lunch Buffet		Wanda Jin Wuzhi Hotel
13:30-15:10	Session 8: GIS and RS for food safety and quality management with new - era productivity elements	Jianlong Wang	Lecture Hall 2, 1st Floor, Building 17
13:30-15:10	Session 9.1: GIS and RS for carbon neutrality	Zengzeng Lian	Lecture Hall 3, 1st Floor, Building 17
13:30-15:10	Session 7.2: Advanced GIScience theory and method developments	Dazhi Li	711, Building 17
13:30-15:10	Session 10.1: Ecological equity and sustainable development in the context of New Productivity	Jiaqi Sun	816, Building 17
13:30-15:10	Session 5.3: Geospatial Science for High - Quality Urban Planning	Zhipeng Gui	702, Building 17
13:30-15:10	Special session of Huanghe Jiaotong University 1	Hui Zhang	605, Building 17



会议日程一览表 Program Overview

June 17 , 2025			
Time	Session	Chair	Location
15:10-15:30	Tea Break		
15:30-17:30	Session 11.1: Geospatial science and public health	Lan Mu	Lecture Hall 2, 1st Floor, Building 17
15:30-17:30	Session 9.2: GIS and RS for carbon neutrality	Jianlong Wang	Lecture Hall 3, 1st Floor, Building 17
15:30-17:30	Session 1.2: Geospatial Big Data and GeoAI for the innovation of New Productivity	Zhipeng Gui	711, Building 17
15:30-17:30	Session 10.2: Ecological equity and sustainable development in the context of New Productivity	Wei Luo	816, Building 17
15:30-17:30	Session 1.3: Geospatial Big Data and GeoAI for the innovation of New Productivity	Pinde Fu	702, Building 17
15:30-17:30	Special session of Huanghe Jiaotong University 2	Hui Zhang	605, Building 17
17:30-18:30	Dinner Buffet		Wanda Jin Wuzhi Hotel

June 18 , 2025			
Time	Session	Chair	Location
7:00-8:30	Breakfast Buffet		Wanda Jin Wuzhi Hotel
8:30-10:30	Session 12: GIS and RS for disaster response and management with New Productivity - driven innovation	Wei Luo	Lecture Hall 2, 1st Floor, Building 17
8:30-10:30	Session 11.2: Geospatial science and public health	Hongrun Ju	Lecture Hall 3, 1st Floor, Building 17
8:30-10:30	Session 1.4: Geospatial Big Data and GeoAI for the innovation of New Productivity	Binbin Lu	711, Building 17
8:30-10:30	Special session of Huanghe Jiaotong University 3	Hui Zhang	816, Building 17
10:30-11:00	Tea Break		
11:00-12:00	Closing Ceremony	Hui Lin	Lecture Hall 1 Building 15



平行论坛 Schedule of Sessions

Schedule of Presentations June 16–18, 2025

June 16 , 2025			
Session 1.1: Geospatial Big Data and GeoAI for the innovation of New Productivity			
Lecture Hall 2, 1st Floor, Building 17			
Time	Lectures	Institute	Chair
13:30-13:50	GeoAI in the era of Open Science Sisi (Siqin) Wang	University of Southern California	Guiming Zhang (University of Denver)
13:50-14:10	Intelligent Identification of Taratan Photovoltaic Power Plant Using High-Resolution Remote Sensing Imagery Yi Wang, Shi He, Shen Yan, Xinwen Wang and Haitao Jing	Henan Polytechnic University	
14:10-14:30	DeepSegment: A Lightweight Road Extraction Network Integrating CBAM and Multi-level Cascaded ASPP Framework Naisi Sun and Yunfei Zhang	Changsha University of Science & Technology	
14:30-14:50	A Study on Investigating the Landuse of a Rural Factory in Chengdu Plain by Using UAV Cunjian Yang, Defei Yang and He Huang	Sichuan Normal University	
14:50-15:10	Application of Geographic Information Artificial Intelligence in Spatio-temporal Semantic Extraction(Online) Chaoqun Wang, Jie He, Xin Xu and Weijiang Pan	Harbin Institute of Technology, Shenzhen; Guangdong Architectural Design and Research Institute Group Co., Ltd.	



平行论坛 Schedule of Sessions

June 16 , 2025

Session 2.1: GIS and RS for local development solutions

Lecture Hall 3, 1st Floor, Building 17

Time	Lectures	Institute	Chair
13:30-13:50	A Study on the Public Perception Characteristics of Jiangxi Province's Intangible Cultural Heritage from the Perspective of Social Media Xing Tu and Yu Xia	Jiangxi Normal University	Dazhi Li (Shanxi Normal University)
13:50-14:10	A new facility location problem for urban public facility planning toward 15-minute life circle: Model and experiment Shiyan Zhai, Yunfeng Kong, Genxin Song, Jingjing Luo and Changchang Dong	Henan University	
14:10-14:30	Examining the Influence of Spatial Elements on Pedestrian Route Choice from Residential Areas to Metro Stations: A Geospatial Analysis of Survey Data in Nanjing Yizhou Shi, Zhiling Liu, Yuanchang Qiu, Zimo Wang, Lian Tang	Nanjing University	
14:30-14:50	Trade Realignment under Triple Crises: A U.S.–China Perspective Wei Luo, Siyuan Kang and Rui Dai	National University of Singapore	
14:50-15:10	Analyzing the Impacts of COVID-19 on Shanghai's Catering Industry Using Geo-Big Data Yiming Zhang and Changshan Wu	University of Wisconsin-Milwaukee	

June 16 , 2025

Session 3.1: Watershed health and management for the Well-being of the Yellow River

711, Building 17

Time	Lectures	Institute	Chair
13:30-13:50	Urbanization-driven Soil Moisture Changes Reduce Regional Flood Resilience Xiaodi Wang, Yufei Sun, Danyun Jin, Peilong Li and Liang Xiong	China Agricultural University	Kuangchao Wu (Henan Polytechnic University)
13:50-14:10	A framework to define, design and construct digital twins in the wetland:Poyang Lake as an example Hao Chen and Hui Lin	Jiangxi Normal University	
14:10-14:30	Monitoring hydrological droughts across twelve sub-basins of the Tibetan Plateau using downscaled GRACE-based terrestrial water storage anomalies Mengmeng Yan, Hui Lin and Geying Lai	Jiangxi Normal University	
14:30-14:50	In-situ and Triple-collocation Based Evaluation of Global Root-Zone Soil Moisture Products across China Wen Zhu, Xiuqin Fang and Yuyu Hou	Hohai University	
14:50-15:10	Monitoring Anthropogenically Disturbed Parcels with Soil Erosion Dynamic Change Based on Improved SegFormer Jialin Li, Kuncheng Jiang, Na Chen and Chuli Hu	China University Of Geosciences (Wuhan)	



平行论坛 Schedule of Sessions

June 16 , 2025			
Session 4: Geocomputation for Social Science			
816, Building 17			
Time	Lectures	Institute	Chair
13:30-13:50	Space-Time Dynamics of Interprovincial Migration Flows in China, 1985–2020 Yingxia Pu, Roberto Patuelli and Guangqing Chi	Nanjing University	Jianlong Wang (Henan Polytechnic University)
13:50-14:10	Analysis of Population Mobility Characteristics and Economic Factors Yihan Zhang, Zihang Xian, Shanshan Li, Siyu Hou and Yafeng Gong	Guangdong University of Finance and Economics	
14:10-14:30	From physical space to cyberspace: Recessive gender biases in social media mirror the real world Ketong Shen and Xintao Liu	The Hong Kong Polytechnic University	
14:30-14:50	Spatio-temporal dynamic characteristics of the substitution effect of ride-hailing travel and its multi-activity network Zhicheng Zheng, Yang Li, Yaochen Qin and Lijun Zhang	Henan University	
14:50-15:10	Discovering the spatial association between residential space and urban amenity by using Baidu trajectory big data(Online) Nana Gu	Nanjing University of Posts and Telecommunications	
June 16 , 2025			
Session 5.1: Geospatial Science for High - Quality Urban Planning			
702, Building 17			
Time	Lectures	Institute	Chair
13:30-13:50	Optimized Viewshed Analysis in a Complex 3D Urban Environment Yifan Zhang, Mengyu Ma, Jun Li, Anran Yang, Qingren Jia and Zebang Liu	National University of Defense Technology	Yaoping Cui (Henan University)
13:50-14:10	Urban Eco-Functional Zoning and Coupling Coordination Based on Geospatial Intelligence Yige Wang and Chunhong Zhao	Tianjin Chengjian University	
14:10-14:30	How does Blue-Green Infrastructure affect the urban thermal environment across various functional zones? Lu Zhang, Changyu Gong, Yige Wang and Chunhong Zhao	Northeast Normal University	
14:30-14:50	How the built environment affects E-scooter sharing link flows: A machine learning approach Ting Jin, Lei Wang and Daniel Sui	The Chinese University of Hong Kong, Chinese Academy of Sciences	



平行论坛 Schedule of Sessions

June 16 , 2025

Session A: Poster & Partner Journal Exhibition

West Hall, 7th Floor, Building 17

Time	Lectures	Institute	Chair
13:30-15:10	Based on a Novel Hierarchical Convolutional Neural Network for Forest Fire Spread Research Tianming Yang and Qingxiang Meng	Wuhan University	
	Automatic Entity Recognition in Chinese Planning texts via Large Language Model Wusiqin Zhang and Yimin Chen	Sun Yat-sen University	
	Simulation of high-resolution wildland-urban interface expansion and future wildfire risk in China from 2000 to 2040 Yuexi He, Xun Liang and Qingfeng Guan	China University of Geosciences (Wuhan)	
	Exploring Causal Relationships and Spatial Heterogeneity of Regional Macroeconomic Indicators: A Case Study of Fujian Province Yudi He, Qingfeng Guan and Xun Liang	China University of Geosciences (Wuhan)	
	Dynamic monitoring and drivers of ecological environmental quality in the Three-North region, China: Insights based on remote sensing ecological index Leyi Zhang and Xia Li	Chang'an University	
	Study on the correlation between spatial characteristics of public space and pedestrian route choice to public transit stations Wenjun Huang, Fan Xi, Yun Dan Jiacao, Xiaoru Zhang, Lian Tang	Nanjing University	
	Urbanization and Extreme Heat: A Causal Analysis of Wuhan Yingqiang Zhong and Qingfeng Guan	China University of Geosciences, Wuhan	
	Information Geography (Conference Partner Journal) Haoran chu	Nanjing Normal University	



平行论坛 Schedule of Sessions

June 16 , 2025

Session 6: Cartography and Geovisualization for high-quality information dissemination

Lecture Hall 2, 1st Floor, Building 17

Time	Lectures	Institute	Chair
15:30-15:50	Exploring Social Interaction Patterns and Drivers in VGI Communities Using Geovisual Analytics Guiming Zhang, Wei Luo, Mingguang Wu and Liangfei Ye	University of Denver	Shiyan Zhai (Henan University)
15:50-16:10	Spatiotemporal-Constrained Vehicle Tracking at Road Intersections: A Geo-Visual Fusion Approach for Traffic Analytics Wenchao Guo, Xiaodong Zhang, Kui Wang and Tingxuan Miao	Wuhan University	
16:10-16:30	Geomorphological Knowledge Graph Construction and Reasoning based on 1:1,000,000 Landform Map Jun Xu, Yunshuo Lv and Jing Zhang	Chinese Academy of Sciences, Capital Normal University	
16:30-16:50	Multi-perspective Occlusion-free Urban Navigation Visualization Shen Ying, Haoran Yang and Junru Su	Wuhan University	

June 16 , 2025

Session 2.2: GIS and RS for local development solutions

Lecture Hall 3, 1st Floor, Building 17

Time	Lectures	Institute	Chair
15:30-15:50	An Aquaculture Big Data Platform for Unmanned Boats Xiaoyu Xie, Jianchun Hua, Jiahao Ding, Yang Le, Yi Huang, Lizhi Miao and Donglai Jiao	Nanjing University of Posts and Telecommunications	Qingfeng Guan (China University of Geosciences)
15:50-16:10	Geospatial analysis of spatial distribution, patterns, and relationships of health status in the belt and road initiative Jie Li	Guangzhou University	
16:10-16:30	Construction Of Centralized Contiguous Protection Network Of Traditional Villages On Regional Scale Danyun Jin, Xiaodi Wang, Yixuan Li, Yufei Sun, Peilong Li, Ziying He and Liang Xiong	China Agricultural University	
16:30-16:50	Evaluation of Road Network in Henan Province Base on Knowledge Graph and Spatial Syntax(Online) Yuanjun Feng, Qingxiang Meng, Yuanfu Gong and Shengyuan Zhang	Wuhan University	
16:50-17:10	Predicting the Direct and Indirect Impacts of Urban Development on Ecological Land under the Large-Scale Implementation of the Cropland Requisition-Compensation Balance Policy Xintong Jiang, Xun Liang and Qingfeng Guan	China University of Geosciences (Wuhan)	



平行论坛 Schedule of Sessions

June 16 , 2025

Session 3.2: Watershed health and management for the Well-being of the Yellow River

711, Building 17

Time	Lectures	Institute	Chair
15:30-15:50	Estimation of Root Zone Soil Moisture in Semi-arid Area Based on SWI Zhihan Zhu, Xiuqin Fang, Wen Zhu, Yu Yang, Ceyu Deng and Yuheng Wang	Hohai University	Dazhi Li (Shanxi Normal University)
15:50-16:10	Evolution and Drivers of Wetland Types in China's Coastal Wetlands (1990-2020) Jinyu Zhao, Jiangyan Gu and Yuanzheng Wang	Tongji University, Wuhan University, Chinese Academy of Sciences	
16:10-16:30	The Impact of Lake Morphological Characteristics on Urban Cooling: A Case Study of Wuhan(Online) Wenlin Huang and Teng Fei	Wuhan University	
16:30-16:50	A Study on the Precise Identification of Oasis in Arid Northwest China Hui Zhao, Shengyuan Jing, Zhiwu Zhou, Faliang Wang, Yinxi Gong and Anjie Sheng	National Geomatics Center of China	
16:50-17:10	Runoff Response of the Qinhe River Basin under Climate Change and Land Use Conditions Wanyu Peng, Shixiong Hu, Pinghua Huang, Yuanmeng Li, Shuangwei Chai, Zhiheng Yu, Qianyu Xiao and Yuzhi Hu	Henan Polytechnic University	



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June 16 , 2025			
Session 7.1: Advanced GIScience theory and method developments			
816, Building 17			
Time	Lectures	Institute	Chair
15:30-15:50	An Explorative Discussion on the Geographical Observation's Sensitivities to the Modifiable Areal Unit Problem Jiayi Chen and Xiang Ye	Nanjing Normal University	Jiaqi Sun (Shanxi Normal University)
15:50-16:10	A new slope unit delineation method based on geomorphon landform classification and invasion percolation-based algorithm Wei Luo, Erneson Oliveira and Rilder Pires	Northern Illinois University, University of Fortaleza, University of Fortaleza	
16:10-16:30	A Container-Aware Volumetric Framework: Poisson Reconstruction for Accurate Stockpile Measurement Using Lidar Point Clouds in Confined Spaces(Online) Haoyu Liu, Qingwu Hu, Pengcheng Zhao and Mingyao Ai	Wuhan University	
16:30-16:50	Exploration and Practice: The Construction of An Undergraduates-Oriented Full English Course on 3D City Modeling in China Pengdong Zhang	Nanjing University of Posts and Telecommunications	
16:50-17:10	PyGeoModel: Integrating Intelligent Geoscientific Modeling Services into Jupyter's Interactive Computing Environment to facilitate all-in-one modeling Peilong Ma, Min Chen, Wei Xie, Dichen Liu, Tianyu Sheng, Yongning Wen, Songshan Yue and Guonian Lv	Nanjing Normal University	
17:10-17:30	Customized Crop Feature Construction using Genetic Programming for Early- and In-season Crop Mapping Caiyun Wen and Miao Lu	Chinese Academy of Agricultural Sciences	



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June 16 , 2025

Session 5.2: Geospatial Science for High - Quality Urban Planning

702, Building 17

Time	Lectures	Institute	Chair
15:30-15:50	Semantic Graph-Driven Intelligent Recommendation of Similar Cases for Urban Regeneration Shilong Wei, Shunli Wang, Minmin Li and You Li	Guangdong Laboratory of Artificial Intelligence and Digital Economy (SZ)	Ting Jin (The Chinese University of Hong Kong)
15:50-16:10	Urban Vitality from the Perspective of Information Space: Measurement and Prediction Model Based on Multi-Source Data Tingting Xu and Aohua Tian	The University of Auckland University of Michigan	
16:10-16:30	Spatial-Temporal Dynamics of Urban Expansion in Beijing: A Comprehensive Analysis of Landscape Metrics, Urban Morphology, and Growth Patterns Huaxi Kou	Capital Normal University	
16:30-16:50	Research on the Spatial Distribution Pattern of Supermarket Businesses within Beijing Sixth Ring Road Based on Dianping Data Wenyu Wei, Shaohua Wang, Haowen Yan and Xianglong Tang	Lanzhou Jiaotong University	



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June 16 , 2025

Session B: Poster & Partner Journal Exhibition

West Hall, 7th Floor, Building 17

Time	Lectures	Institute	Chair
15:30-17:10	The detection of shallow water-ice in the Nobile crater at the lunar south polar region Rong Wang, Yongjiu Feng, Panli Tang, Yiyan Dong, Yuze Cao, Chao Wang, Zhen Ye, Rong Huang and Xiaohua Tong	Tongji University	
	Multi-scale urban ventilation corridor identification method considering anisotropy Chenxu Xu, Qingfeng Guan	China University of Geosciences (Wuhan)	
	KG-SemiLCM: A knowledge graph-embedded contrastive learning framework for semi-supervised land cover mapping using high-resolution remote sensing images Shaochun Li, Yingqiang Zhong and Qingfeng Guan	China University of Geosciences (Wuhan)	
	Dynamic context aggregation based change detection method for building remote sensing images Kui Ran, Yili Zhao, Fangrong Zhou, Xuejuan He, Yan Wang and Leiguang Wang	Southwest Forestry University	
	RLRAnet: Reinforcement Learning-guided Reverse Attention Network for Remote Sensing Tubular Structure Heyang Li, Feiyang Dong, Lei Li, Jintao Li, Haihua Chen, Jianping Li, Dapeng Liu and Yucheng Zhang	University of Chinese Academy of Sciences	
	Spatiotemporal Heterogeneity of LST and Near-Surface Air Temperature: Evaluation and Estimation in Hong Kong Songyang Li, Man Sing Wong and Pak Wai Chan	The Hong Kong Polytechnic University	
	Reflections on Education Reform of GIScience under the Wave of Generative Artificial Intelligence Yi Huang, Lizhi Miao and Xueying Zhang	Nanjing University of Posts and Telecommunications	
	Information Geography (Conference Partner Journal) Haoran chu	Nanjing Normal University	



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June 17 , 2025

Session 8: GIS and RS for food safety and quality management with new - era productivity elements

Lecture Hall 2, 1st Floor, Building 17

Time	Lectures	Institute	Chair
13:30-13:50	Water Demand Prediction For Tobacco-rice Rotation Irrigation Areas Based On Neural Networks Peilong Li, Liang Xiong, Xiaodi Wang, Ziyang He, Jie Yue, Xuejun Liu, Leilei Xiao and Danyun Jin	China Agricultural University	Jianlong Wang (Henan Polytechnic University)
13:50-14:10	Food Insecurity among University Students and The Barriers to Accessing Food Assistance Programs Yingru Li, Evansha Andre and Carvis Durr	University of Central Florida	
14:10-14:30	Navigating Food Inaccessibility: The Cognitive Food Space Weixuan Lyu	University of Connecticut	
14:30-14:50	The Price Is Right? The Geography of Beverage Price Index Lan Mu	University of Georgia	

June 17 , 2025

Session 9.1: GIS and RS for carbon neutrality

Lecture Hall 3, 1st Floor, Building 17

Time	Lectures	Institute	Chair
13:30-13:50	Nonlinear and spillover effect of urban multidimensional spatial structure on residential carbon emissions: A case study of 281 cities in China(Online) Sanwei He and Huiyuan Zhang	Zhongnan University of Economics and Law	Zengzeng Lian (Henan Polytechnic University)
13:50-14:10	Exploring Multi-Scenario Land Use Changes and Carbon Storage Using CMCPI, Coupled Multi-Feature Classification, PLUS, and InVEST —A Case Study of Lianyungang Dingchen Liu and Yan Gu	Nanjing University of Posts and Telecommunications	
14:10-14:30	Optimization-based global liquefied natural gas shipping network management for emission reduction Hongchu Yu	Wuhan University of Technology	
14:30-14:50	Spatial-temporal characteristics and influencing factors of carbon emissions in Huang-Huai-Hai region based on nighttime light image data Liang Long Wei	China University of Mining and Technology	



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June 17 , 2025

Session 7.2: Advanced GIScience theory and method developments

711, Building 17

Time	Lectures	Institute	Chair
13:30-13:50	Libgwmodel: a fundamental C++ library to develop geographically weighted models Binbin Lu, Guangyu Ou, Yigong Hu and Yiyun Zhang	Wuhan University	Dazhi Li (Shanxi Normal University)
13:50-14:10	A Data Potential Field Interpolation-Based 3D Geological Implicit Modeling Method and Uncertainty Evaluation Zhenxi Fang, Xiuzong Wei and Baoyi Zhang	Central South University, Guangxi Communications Design Group Co. Ltd.	
14:10-14:30	Uncertainty Analysis in Land Use Mapping by Fusing Remote Sensing Classifiers via Dempster-Shafer Evidence Theory Song Wang, Baitao Zhou and Lanfa Liu	Central China Normal University	
14:30-14:50	Thermal environment analysis of the lunar Amundsen crater integrating multi-source remote sensing and physical temperature data Panli Tang, Yongjiu Feng, Shurui Chen, Yuze Cao, Rong Wang, Yi Zhou, Zhenkun Lei, Yanmin Jin, Xiong Xu, Sicong Liu and Xiaohua Tong	Tongji University	
14:50-15:10	From Web GIS to Mobile GIS: Technology, Textbooks, and Curriculum Yaochen Qin and Pinde Fu	Henan University, Harvard University Extension	

June 17 , 2025

Session 10.1: Ecological equity and sustainable development in the context of New Productivity

816, Building 17

Time	Lectures	Institute	Chair
13:30-13:50	The Mechanism of El Niño's Impact on Vegetation Phenology Changes in China Peng Wang and Hui Lin	Jiangxi Normal University	Jiaqi Sun (Shanxi Normal University)
13:50-14:10	Divergent responses of tree phenology to artificial light at night among different successional species Haoming Xia and Ge Liu	Henan University	
14:10-14:30	Achieving Green Equity in Urbanized City: Considering Multiple Transportation Modes and Age Groups in Hong Kong Mingjie Duan, Xiaoyue Tan and Xiaolin Zhu	The Hong Kong Polytechnic University	
14:30-14:50	Integrating Spatial Effects in a Weighted Ensemble Model for Estimating Regional Forest Biomass Density: Implications for Sustainable Development Kaiwen Yao and Huangyuan Tan	The Hong Kong Polytechnic University, Wuhan University	



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June 17 , 2025

Session 5.3: Geospatial Science for High - Quality Urban Planning

702, Building 17

Time	Lectures	Institute	Chair
13:30-13:50	Optimizing Outdoor Comfort: GIS and Microclimate Analysis of Tree Arrangement in Residential Areas Nisargee Kulathunga, Chayn Sun, Rebecca Yang and Chengyang Liu	RMIT University	Zhipeng Gui (Wuhan University)
13:50-14:10	Evaluating Urban Housing Contradictions Through Multi-source Data Fusion: A Case Study of Spatiotemporal Mismatch Analysis in Shenzhen With the HCEWI Model Aiyi Jiang, Guanzhou Chen and Jinzhou Cao	Wuhan University	
14:10-14:30	Spatiotemporal Evolution of Urban Expansion in Zhengzhou City: Impacts on Ecological Environment Quality Kaixin Zai, Jiwei Ren, Huihui Wang, Haochen Li and Fen Qin	Henan University	
14:30-14:50	Geospatial Optimization Analytics on Hotpot site selection in Beijing based on Deep Reinforcement Learning(Online) Siyue Yuan, Jiaying Fu and Xiaoyin Ma	Beijing University of Posts and Telecommunications, Wuhan University	
14:50-15:10	The Heat Price of Big Data: Leveraging Machine Learning to Analyze the Urban Heat Effects of Data Center Alley in Washington D.C.'s Hinterlands Jason Zhang	Thomas Jefferson High School for Science and Technology	



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June 17, 2025 Special session of Huanghe Jiaotong University 1 605, Building 17			
Time	Lectures	Institute	Chair
13:30-13:50	Design of License Plate Recognition System for Complex Environments Using Hybrid Detection and Recognition Architectures Sanxing Deng	Huanghe Jiaotong University	Hui Zhang (Huanghe Jiaotong University)
13:50-14:10	Multi-scale GAN traffic sign generation and Data Augmentation method with Self Attention Mechanism for complex scenes Mengmeng Yang		
14:10-14:30	Study on the Uniformity of Particle Distribution and Performance Analysis of Nickel Diamond Composite Coating on Complex Surface Electroplated by Imitation Incremental Electric Field Haina Liu		
14:30-14:50	Research on the Role of Low-Altitude Economy in Promoting Ecological Conservation and Coordinated High-Quality Economic Development in the Yellow River Basin Yongzhe Li		
14:50-15:10	The Influence of Academic Management on Achievement Motivation of University Students of Rural Areas Under the Background of Rural Revitalization Tianjin Yao		
15:10-15:30	Research on the application of BIM technology in the mechanical and electrical installation project of a hospital Yixian Wang		



平行论坛 Schedule of Sessions

June 17 , 2025

Session 11.1: Geospatial science and public health

Lecture Hall 2, 1st Floor, Building 17

Time	Lectures	Institute	Chair
15:30-15:50	Correlation exploration between residents' economic well-being and nighttime lights Jie Liu, Wei Jiang, Ming Liu, Tengfei Long, Zhiguo Pang, Denghua Yan, Elhadi Adam, Chunhui Wen and Longfei Wang	Dalian University Of Technology	Lan Mu (University of Georgia)
15:50-16:10	A multiscale spatial-temporal-spectral feature fusion network for predicting multiple air pollutants Xinmeng Zhou, Xun Liang, Qiqi Zhu and Qingfeng Guan	China University of Geosciences	
16:10-16:30	Improving Spatial Equality in Primary Healthcare Facilities through a Minimum Distance and Spatial Envy Location Model: A Case Study in Changyuan, China Changchang Dong, Shiyan Zhai and Yunfeng Kong	Henan University	
16:30-16:50	Co-Evolution of Epidemics and Information in Real-World: a modeling study based on Spatially Embedded Multilayer Acquaintance Network Yepeng Shi, Kemin Zhu, Kang Liu and Ling Yin	Chinese Academy of Sciences	
16:50-17:10	Spatial Analysis of Population-Weighted Surface Urban Heat Island Trends in Global Cities Kangning Huang and Jiayong Liang	New York University Shanghai	
17:10-17:30	Model the Effects of Social Deprivation on Birth Weight: A Case Study in Georgia, USA Wei Tu	Georgia Southern University	



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June 17 , 2025			
Session 9.2: GIS and RS for carbon neutrality			
Lecture Hall 3, 1st Floor, Building 17			
Time	Lectures	Institute	Chair
15:30-15:50	Spatio-Temporal Transfer Pathways of Embodied Water-Energy-Food-Carbon in Agricultural Trade Among the Top Five Grain-Producing Nations Using Multiregional Input-Output Xiaoyu Zhang, Shiyan Zhai and Zhimin Zhou	Henan University	Jianlong Wang (Henan Polytechnic University)
15:50-16:10	Construction of a Spatiotemporal Knowledge Graph for Carbon Source and Sink Dynamics Driven by Multi-Source Sensing Collaboration Xiaojun Sheng, Shi Wen, Shilong Wei, Qi Yang, Minmin Li and Shunli Wang	Guangdong Laboratory of Artificial Intelligence and Digital Economy (SZ), Shenzhen University	
16:10-16:30	Spatio-temporal Coupling between Land-use Carbon Emissions and Ecosystem Service Value of Urumqi based on Grid Square and Geographic Detectors Bumairiyemu Maimaiti, Senbao Bi and Langyue Dou	Xinjiang Agricultural University	
16:30-16:50	The Telecoupling Impacts of Virtual "Land-Water-Carbon" Flow on the Agricultural Environmental Stress in China Hongrun Ju, Jili Wang and Shengrui Zhang	Qingdao University, Ocean University of China	
16:50-17:10	Spatiotemporal Decoupling of Urban Electricity Consumption Drivers in China Yiyan Li, Zhang Chen, Shan Wei and Hongsheng Zhang	The University of Hong Kong	



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June 17 , 2025

Session 1.2: Geospatial Big Data and GeoAI for the innovation of New Productivity

711, Building 17

Time	Lectures	Institute	Chair
15:30-15:50	Red tides detection of high and super spatial resolution satellites based on explainable ensemble learning Xingda Chen, Shuisen Chen, Mengjun Ku, Chongyang Wang, Hao Jiang and Jianhui Xu	Guangzhou Institute of Geography	Zhipeng Gui (Wuhan University)
15:50-16:10	SCL-MDSCD: Supervised Contrastive Learning-Enhanced Multi-Domain Information Interaction for Semantic Change Detection in Remote Sensing Images Xiaolong Li and Yonghui Tan	East China University of Science and Technology	
16:10-16:30	A Mixture of Experts Model for Image Classification Based on High-Resolution Remote Sensing Image Jiwei Ren, Kaixin Zai, Haochen Li, Huihui Wang, Jinjin Du, Weichen Mu and Fen Qin	Henan University	
16:30-16:50	A Chain-of-Thought Large Language Model Approach for Accessible Spatial Optimization Xin Feng and Yuanpei Cao	University of Oklahoma Airbnb Inc.	
16:50-17:10	Estimating Aboveground Biomass Using Sentinel-2 Time Series and Deep Learning Models Wen Zhang and Baoxin Hu	York University	

June 17 , 2025

Session 10.2: Ecological equity and sustainable development in the context of New Productivity

816, Building 17

Time	Lectures	Institute	Chair
15:30-15:50	Assessing Land Cover Dynamics and Environmental Impacts in the Yellow River Basin over the Last Millennium Yafei Wang, Minmin Li, You Li and Renzhong Guo Guo	Shenzhen University	Wei Luo (Northern Illinois University)
15:50-16:10	Climatic change controls the vulnerable land ecotope across water-poor basins, Asian Yang Li	Henan University	
16:10-16:30	Fluctuations of the 400 mm Precipitation Line under the Influence of Multiple Factors Jie Jiang and Yaochen Qin	Henan University	
16:30-16:50	Research and analysis on the coupling and coordination of urban expansion and ecological environment in the Henan section of the Yellow River Basin Weichen Mu, Kaixin Zai, Jiwei Ren, Luyao Gao, Haochen Li, Huihui Wang, Fen Qin	Henan University	
16:50-17:10	Spatiotemporal Dynamics of Remote Sensing Ecological Index in Shanxi Province, China Yumiao Yuan, Shixiong Hu, Zhongwu Zhang, Jinyuan Zhang, Fanfan Hu and Guodong Yang	Shanxi Normal University	



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June 17 , 2025			
Session 1.3: Geospatial Big Data and GeoAI for the innovation of New Productivity			
702, Building 17			
Time	Lectures	Institute	Chair
15:30-15:50	AI-assisted site selection via fine-tuned large language models Huan Meng and Xiang Li	East China Normal University	Pinde Fu (ESRI)
15:50-16:10	Spatialize deep learning detection results of river trash Yan Ding and Xiang Li	East China Normal University	
16:10-16:30	Hybrid Learning with Multi-Objective Optimization For Remote Sensing Few Shot Scene Classification(Online) Zhaohui Guo, Qingwu Hu, Mingyao Ai and Pengcheng Zhao	Wuhan University	
16:30-16:50	Maize Canopy Height Monitoring using Multi-Temporal UAV-LiDAR Yadong Liu, Dameng Yin and Xiuliang Jin	Chinese Academy of Agricultural Sciences	



平行论坛 Schedule of Sessions

June 17 , 2025

Special session of Huanghe Jiaotong University 2

605, Building 17

Time	Lectures	Institute	Chair
15:30-15:50	Gravity Field Modeling in Complex Areas Using Band-Limited Spherical Radial Basis Functions (SRBFs) Zhiwei Ma	Huanghe Jiaotong University	Hui Zhang (Huanghe Jiaotong University)
15:50-16:10	Research Hotspots and Trends in Ecological Equity and Sustainable Development from 2005 to 2024 - Visual Analysis Based on VOSViewer(Online) Yan Guo		
16:10-16:30	Study on the Spatiotemporal Evolution and Driving Forces of Ecosystem Carbon Storage in the Henan Section of the Yellow River Basin Xiying Jin		
16:30-16:50	Analysis of the influencing factors of flood disasters in the section from Shangqiu to Suzhou in the Huaihe River Basin Yuqing Xu		
16:50-17:10	Design and Implementation of Regional Identification Algorithm for Highway Pavement Diseases Based on UAV Vision and CNN Pei Zhu		
17:10-17:30	The Study on Interoperation of Hydrologic Models and Its Application Mengya Jia		



平行论坛 Schedule of Sessions

June 18 , 2025

Session 12: GIS and RS for disaster response and management with New Productivity - driven innovation

Lecture Hall 2, 1st Floor, Building 17

Time	Lectures	Institute	Chair
8:30-8:50	An event logic graph for geographic environment observation planning in disaster chain monitoring Yunbo Zhang, Bingshu Huang, Zongran Zhang and Chuli Hu	China university of geosciences (Wuhan)	Wei Luo (Northern Illinois University)
8:50-9:10	FDB-Net: A Local-Global Collaborative Attention-Based Network for Information Extraction of Flood Damaged Building(Online) Weiye Zheng, Junyi Liu and Qingxiang Meng	Wuhan University	
9:10-9:30	Flash flood susceptibility assessment based on binary statistics and machine learning Ceyu Deng, Xiuqin Fang, Zhihan Zhu, Yuheng Wang, Xiaoxiang Zhang and Yuehong Chen	Hohai University	
9:30-9:50	Landslide Hazard Warning Based on Information Value-Random Forest Model(Online) Shiqian Ma, Caiyan Wu, Baicheng Yi	Southwest University of Science and Technology	
9:50-10:10	Risk Assessment of Urban Road Collapse Based on Coupling GIS and AHP-VFS Theory(Online) Wenfeng Bai, Yizhao Wang, Sen He, Long Chen, Fei Wang, Qinglun He, Xing Min and Yuchen Jia	Tsinghua Shenzhen International Graduate School, Tsinghua University, Guangzhou Metro Design Research Institute Co., Ltd.	



平行论坛 Schedule of Sessions

June 18 , 2025

Session 11.2: Geospatial science and public health

Lecture Hall 3, 1st Floor, Building 17

Time	Lectures	Institute	Chair
8:30-8:50	Impact of Different Greenspace Metrics on Cardiovascular Disease Incidence in Urban Settings: A Comparative Analysis(Online) Ruoyu Dong and Yanqing Xu	Wuhan University	Hongrun Ju (Qingdao University)
8:50-9:10	How Much Greening Can Residents See From Apartments? Shinjita Das, Chayn Sun, Alan Both and Sarah Foster	RMIT University	
9:10-9:30	Spatiotemporal Impacts of Purpose-Specific Human Mobility on Air Pollution: Evidence from Taxi Trajectories and Interpretable Machine Learning Wenrui Xu and Xinyue Gu	Tsinghua University, The Hong Kong Polytechnic University	
9:30-9:50	Spatial associations and potential explanations for UV exposure and melanoma incidence in populations Qi Tang, Qiqi Xiao, Yanqing Xu, Yan Liu and Jiaxuan Han	Wuhan University	
9:50-10:10	Development of a Heat Vulnerability Index Toolkit for Ho Chi Minh City to Support Nature-Based Solutions for Smart and Sustainable Cities Chayn Sun, Wenhui Cai, Duc Trinh Tran, Seng Kiong Kok, Trung Luong and Binh Le	RMIT University	
10:10-10:30	Access to Healthcare: From Modeling Potential Spatial Access to Understanding Healthcare Utilization Neng Wan, Jiuying Han and Marta McCrum	University of Utah	



平行论坛 Schedule of Sessions

June 18 , 2025

Session 1.4: Geospatial Big Data and GeoAI for the innovation of New Productivity

711, Building 17

Time	Lectures	Institute	Chair
8:30-8:50	LandGPT: A Multimodal Large Language Model for Parcel-Level Land Use Classification with Multi-Source Data Geyuan Zhu, Mi Tang, Yueheng Ma and Yao Yao	China University of Geosciences (Wuhan)	Binbin Lu (Wuhan University)
8:50-9:10	Building Extraction Method from Optical Remote Sensing Images Based on Multi-Scale Mixture-of Experts with LoRA(Online) Huina Xu, Bowei Xue, Runjie Liu, Qionggui Zhang and Wenjing Lu	Zhengzhou University	
9:10-9:30	Hybrid Deep Learning Approach for Individual Tree Crown Detection and Delineation in Mixed-Wood Forests Using High-Resolution LiDAR Data Qian Li and Baoxin Hu	York University	
9:30-9:50	Precision Estimation of Peanut Biomass Using UAV Hyperspectral Data and Machine Learning Models Tao Liu, Wang Liu and Fengyuan Yang	Henan University of Economics and Law	

June 18 , 2025

Special session of Huanghe Jiaotong University 3

816, Building 17

Time	Lectures	Institute	Chair
8:30-8:50	Can Social Media Overload Boost Learning Engagement? Exploring the Role of Ego Depletion in Driving the Connection Lina Guo	Huanghe Jiaotong University	Hui Zhang (Huanghe Jiaotong University)
8:50-9:10	Review and Innovation of Traffic Management from the Perspective of Low-Altitude Economy Guolin Yan		
9:10-9:30	Empowering Smart City Construction with Low-altitude Economy: Innovation-driven and Integrat Jing Song		
9:30-9:50	Cross-border E-commerce Logistics and Multi-group Evolutionary Game Equilibrium Wenhao Lu		
9:50-10:10	"Measurement of the Development Level of Digital Economy and Analysis of Regional Differences Haibo Li		
10:10-10:30	Research on Modeling Methods of UAV Aerial Survey and BIM Technology Shuaibin Shan		



会议餐饮 Conference dining

Date	Meal
June 15th (Sunday))	Dinner: 18:30-20:30 Wanda Jin Wuzhi Hotel - 1st Floor Buffet Restaurant
June 16th (Monday)	Breakfast 7:00-8:30 Wanda Jin Wuzhi Hotel - 1st Floor Buffet Restaurant Lunch 12:00-13:30 Wanda Jin Wuzhi Hotel - 2nd Floor Buffet Restaurant Dinner 17:30-18:30 Wanda Jin Wuzhi Hotel- 2nd Floor Buffet Restaurant
June 17th (Tuesday)	breakfast 7:00-8:30 Wanda Jin Wuzhi Hotel - 1st Floor Buffet Restaurant Lunch 12:10-13:30 Wanda Jin Wuzhi Hotel- 2nd Floor Buffet Restaurant Dinner 17:30-18:30 Wanda Jin Wuzhi Hotel- 2nd Floor Buffet Restaurant
June 18th (Wednesday)	Breakfast 7:00-8:30 Wanda Jin Wuzhi Hotel - 1st Floor Buffet Restaurant Lunch 12:00-13:30 Wanda Jin Wuzhi Hotel - 2nd Floor Buffet Restaurant



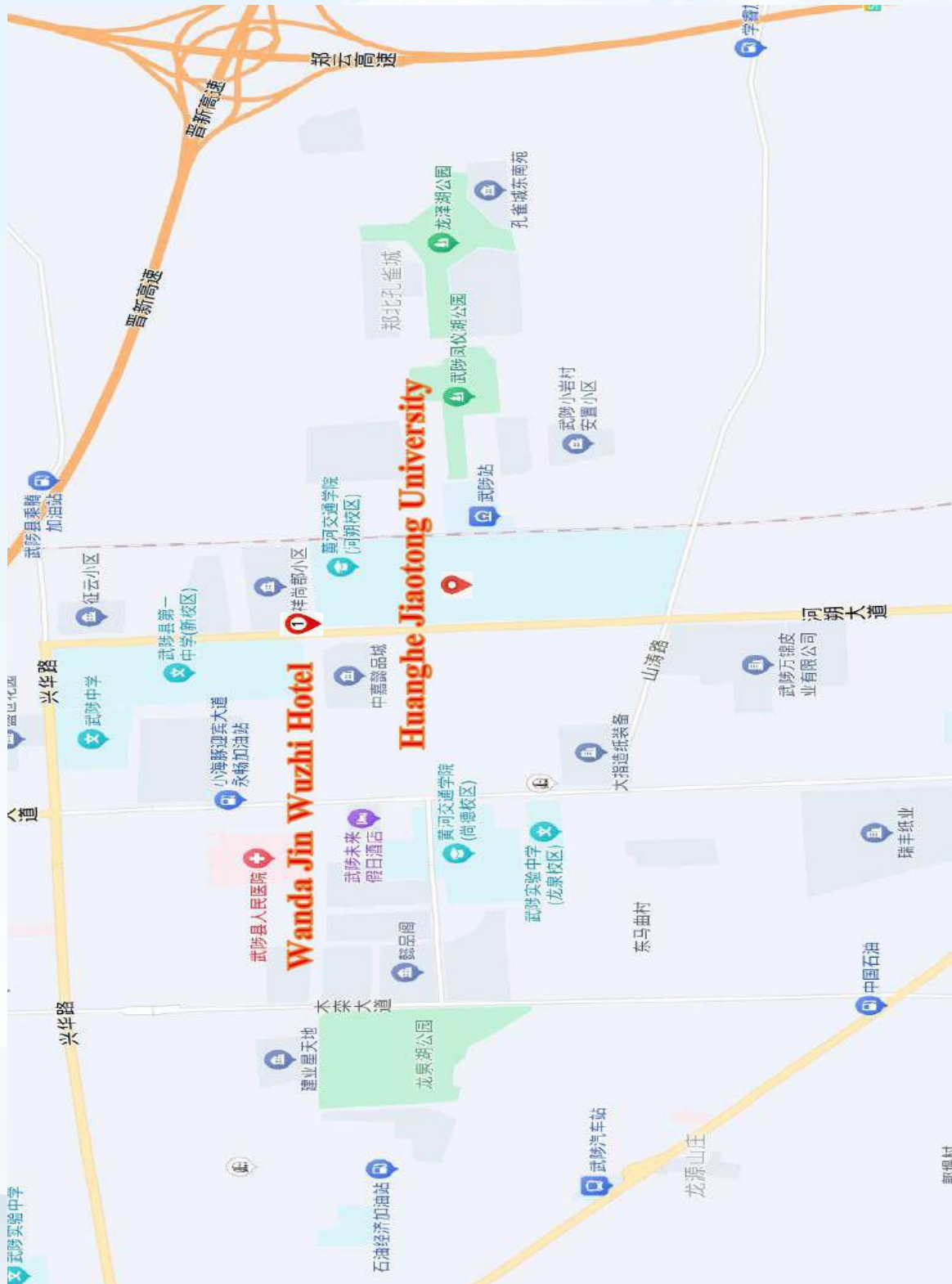
天气预报 Weather forecast

Date	Weather	Celsius
June 15th (Sunday)	Cloudy	23-36
June 16th (Monday)	Sun	22-36
June 17th (Tuesday)	Cloudy	21-40
June 18th (Wednesday)	Rain	24-39



地理位置示意图 Geographical location diagram

Venue Location





黄河交通学院校园导视图





交通指南 Transportation Guide

Conference Location s: No. 566 Heshuo Avenue, Wuzhi County, Jiaozuo City, Henan Province.

(1)Main Transportation Hubs

1)Zhengzhou Xinzheng International Airport(CGO)

Pick-up Service:

Free shuttle buses provided by the organizing committee
(advanced registration required)

Public Transport:

From Xinzheng Airport Railway Station to Wuzhi Station by high-speed rail
(50 mins)

Taxi from Wuzhi Station to the university (8 mins)

2)Zhengzhou East Railway Station

Pick-up Service: Free shuttle buses provided by the organizing committee
(advanced registration required)

Public Transport: Direct high-speed trains to Wuzhi Station (40 mins)

3)Wuzhi Station

Pick-up Service: Free shuttle buses provided by the organizing committee
(advanced registration required)

Other Options: Taxi to venue (8 mins)

(2)Self-Driving

Destination: No. 566 Heshuo Avenue, Wuzhi County, Jiaozuo City, Henan Province

Parking: Free parking on campus (show conference badge)



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GISCIENCE FOR HIGH-QUALITY DEVELOPMENT

WeChat official account: CPGIS

Conference official website: <https://www.cpgis.org/>

Conference website: <https://cpgis2025.zjtu.edu.cn/>

Conference Date: June 15–18, 2025

Address: Heshuo Campus, Huanghe Jiaotong University, Wuzhi County, Jiaozuo City, Henan Province, China

Conference format: Hybrid (Online & On-site)

