Conference Handbook

香港中文大学太空与地球信息科学研究所
INSTITUTE OF SPACE & EARTH INFORMATION SCIENCE CUHK

北京师范大学地理科学学部
Faculty of Geographical Science BNU

IGU-GEOSUS

GEOSUS

2026 International Workshop on Geography and Sustainability:

Sustainable Cities

27–29 November 2026

The Chinese University of Hong Kong · Hong Kong, China



SUPPORTING ORGANIZATION Office of Academic Links, CUHK

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International Workshop on Geography and Sustainability 2026

Sustainable Cities

27–29 November 2026 · Hong Kong, China

Cities are central to sustainable development, while also facing growing challenges related to climate change, energy transition, mobility, public health, environmental quality, and social inequality. As a discipline concerned with the interactions between human society and the natural environment, geography provides important theories, methods, data, and geospatial technologies for understanding these complex urban challenges and supporting more sustainable development. The International Workshop on Geography and Sustainability 2026 (GeoSUS 2026), with the theme "Sustainable Cities," aims to promote interdisciplinary research on urban sustainability, strengthen exchanges and cooperation among scholars from different disciplines and regions, and advance the integration and innovation of geography and sustainability research. We look forward to welcoming you to The Chinese University of Hong Kong and to an inspiring and productive GeoSUS 2026 in Hong Kong!



Workshop Organization

Hosts

Institute of Space and Earth Information Science, The Chinese University of Hong Kong

Faculty of Geographical Science, Beijing Normal University

Organizers

The Chinese University of Hong Kong

Beijing Normal University

The Geographical Society of China

IGU Commission on Geography and Sustainability

Co-organizer

Geography and Sustainability (Journal)

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- Mei-Po Kwan (Institute of Space and Earth Information Science, The Chinese University of Hong Kong, Hong Kong, China)

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Programme Overview

Time	Programme	Location
Day 1 · Friday, 27 November 2026		
16:00–20:00	On-site check-in (Conference venue)	LT1, G/F, CYT
Day 2 · Saturday, 28 November 2026		
08:30–09:00	Check-in	LT1, G/F, CYT
09:00–09:45	Opening Ceremony & Welcome Addresses	LT1, G/F, CYT
09:45–10:45	Keynote Session I	LT1, G/F, CYT
10:45–11:05	Tea break & poster viewing	
11:05–12:05	Keynote Session II	LT1, G/F, CYT
12:05–14:00	Lunch	Chung Chi College Staff Club, CUHK
14:00–15:30	Keynote Session III	LT1, G/F, CYT
15:30–15:50	Tea break & poster viewing	
15:50–16:50	Keynote Session IV	LT1, G/F, CYT
16:50–17:10	Break & poster viewing	
17:10–18:00	Global Dryland Ecosystem Programme Annual Panel Meeting	LT1, G/F, CYT
18:00–20:30	Conference banquet	Chung Chi College Staff Club, CUHK
Day 3 · Sunday, 29 November 2026		
08:30–09:45	Panel Discussion Session 3: Understanding Himalayan cities for the Future in the context of increasing natural disasters	CYT LT1
	Session 17A: Transition to Renewable Energy under Climate Change and Urbanization	CYT 201
	Session 16A: Coastal social-ecological system resilience under Global Change	CYT 202
	Session 19A: Environmental Exposure, Spatiotemporal Behavior, and Health: Toward Sustainable and Healthy Cities	CYT 209A
	Session 4A: Urban Green Infrastructure for Urban Sustainability: Formation Mechanisms and Synergistic Optimization of Social-Ecological Effect	CYT 209B
	Session 10A: Sustainable Development Beyond 2030: Urban Pathways, SDG Transformations, and Future Sustainability Agendas	CYT 214
	Session 9A: Advanced Geospatial Technologies for Sustainable Urban Transitions: Equity, Health, and Resilience	CYT 215
	Session 15A: Urban AI and Sustainable Mobility	CYT LT4



Time	Programme	Location
09:45–11:00	Editors Panel Discussion Session	CYT LT1
	Session 17B: Transition to Renewable Energy under Climate Change and Urbanization	CYT 201
	Session 16B: Coastal social-ecological system resilience under Global Change	CYT 202
	Session 19B: Environmental Exposure, Spatiotemporal Behavior, and Health: Toward Sustainable and Healthy Cities	CYT 209A
	Session 4B: Urban Green Infrastructure for Urban Sustainability: Formation Mechanisms and Synergistic Optimization of Social-Ecological Effect	CYT 209B
	Session 10B: Sustainable Development Beyond 2030: Urban Pathways, SDG Transformations, and Future Sustainability Agendas	CYT 214
	Session 9B: Advanced Geospatial Technologies for Sustainable Urban Transitions: Equity, Health, and Resilience	CYT 215
	Session 15B: Urban AI and Sustainable Mobility	CYT LT4
11:00–11:20	Tea break	
11:20–12:35	Session 2: Early Career Research Award	CYT LT1
	Session 1: GeoSus 2026 Student Paper Competition	CYT 201
	Session 8: Living in urban drylands: exploring problems and developing solutions	CYT 202
	Session 18: Urban and Transport Resilience under Climate Change: Emerging Perspectives and Approaches	CYT 209A
	Session 22: Climate Resilience and Sustainability across the Urban-Rural Continuum	CYT 209B
	Session 6: Recent Computational Tools for Climate-Resilient and Sustainable Cities	CYT 214
	Session 9C: Advanced Geospatial Technologies for Sustainable Urban Transitions: Equity, Health, and Resilience	CYT 215
	Session 15C: Urban AI and Sustainable Mobility	CYT LT4
12:35–14:00	Lunch	The Stage, 3/F and 5/F, CYT

Time	Programme	Location
14:00–15:15	Session 11A: Urban Ecological Space Expansion and Management	CYT LT1
	Session 7A: Sustainability of the intertwined urban system and agrifood system	CYT 201
	Session 21A: Urban Sustainability under Hydro-Meteorological Extremes and Environmental Hazards	CYT 202
	Session 20A: Rethinking GeoHealth for Sustainable Future Cities	CYT 209A
	Session 14A: Urban Resilience in Climate-Constrained Cities: Sustainable Transitions toward Low-Carbon and Adaptive Futures	CYT 209B
	Session 12A: Multi-Source Remote Sensing and AI-Enabled Assessment of Urban Infrastructure Health, Resilience, and Carbon Sustainability	CYT 214
	Session 13A: Carbon Dynamics for Sustainable Development: Monitoring, Mechanisms and Pathways	CYT 215
	Session 5A: Spatial Governance and Optimization for Urban Ecosystem Services	CYT LT5
15:15–15:25	Tea break	
15:25–16:40	Session 11B: Urban Ecological Space Expansion and Management	CYT LT1
	Session 7B: Sustainability of the intertwined urban system and agrifood system	CYT 201
	Session 21B: Urban Sustainability under Hydro-Meteorological Extremes and Environmental Hazards	CYT 202
	Session 20B: Rethinking GeoHealth for Sustainable Future Cities	CYT 209A
	Session 14B: Urban Resilience in Climate-Constrained Cities: Sustainable Transitions toward Low-Carbon and Adaptive Futures	CYT 209B
	Session 12B: Multi-Source Remote Sensing and AI-Enabled Assessment of Urban Infrastructure Health, Resilience, and Carbon Sustainability	CYT 214
	Session 13B: Carbon Dynamics for Sustainable Development: Monitoring, Mechanisms and Pathways	CYT 215
	Session 5B: Spatial Governance and Optimization for Urban Ecosystem Services	CYT LT5
16:40–17:00	Closing and Awards Ceremony	LT1, CYT



Opening Ceremony & Keynote Sessions I–II

Saturday, 28 November 2026 | 09:00–14:00 · LT1, G/F, Cheng Yu Tung Building (CYT)

09:00–09:45	**Opening Ceremony** Welcome Addresses: Liwen Jiang, Bojie Fu, Fahu Chen, Mei-Po Kwan Group photo
Keynote Session I Moderator: Prof. Michael Meadows (Nanjing University, China; University of Cape Town, South Africa)	
09:45–10:15	Title: ***Landscape-scale social-ecological Restoration for Sustainability: Lessons from Loess Plateau*** Speaker: **Prof. Bojie Fu** (Academician of the Chinese Academy of Sciences, Chinese Academy of Sciences, China)
10:15–10:45	Title: ***GeoAI for Sustainable Cities and Health Research*** Speaker: **Prof. Mei-Po Kwan** (Fellow of the World Academy of Sciences, the Chinese University of Hong Kong, China)
10:45–11:05	**Tea break & poster viewing**
Keynote Session II Moderator: Prof. Mei-Po Kwan	
11:05–11:35	Title: ***Human Activities Accelerated the Transformation of Terrestrial and Lake Ecosystems in Southern Mongolia Plateau since 2,200 Years Ago*** Speaker: **Prof. Fahu Chen** (Academician of the Chinese Academy of Sciences, Chinese Academy of Sciences, China)
11:35–12:05	Title: ***AI in urban planning for future city*** Speaker: **Prof. Pengjun Zhao** (Fellow of the U.K. Academy of Social Sciences, Peking University, China)
12:05–14:00	**Lunch (Chung Chi College Staff Club, CUHK)**

Keynote Sessions III–IV & Closing Ceremony

Saturday, 28 November 2026 | 14:00–18:00 & Sunday, 29 November 2026 | 16:40–17:00
LT1, G/F, Cheng Yu Tung Building

Keynote Session III Moderator: Prof. Siu Ngan Nina Lam	
14:00–14:30	Title: ***GIS and Sustainable Development*** Speaker: **Prof. Anthony G.O. Yeh** (Academician of the Chinese Academy of Sciences, The University of Hong Kong)
14:30–15:00	Title: ***Urban Sustainability in an Era of Human-Modified Drought*** Speaker: **Prof. Justin Sheffield** (University of Southampton, UK)
15:00–15:30	Title: ***Urban heat island mitigation: From tipping points to cooling efficiency and social equity*** Speaker: **Prof. Jian Peng** (Peking University, China)
15:30–15:50	**Tea break & poster viewing**
Keynote Session IV Moderator: Prof. Justin Sheffield	
15:50–16:20	Title: ***Towards more active travel. Shedding light on cycling in the dark*** Speaker: **Prof. Frank Witlox** (Fellow of Academia Europaea, Ghent University, Belgium)
16:20–16:50	Title: ***Beyond the city limits: Lakes, urban legacies and sustainable futures*** Speaker: **Prof. Michael Meadows** (Fellow of Academia Europaea, Nanjing University, China; University of Cape Town, South Africa)
16:50–17:10	**Break & poster viewing**
Global Dryland Ecosystem Programme Annual Panel Meeting Moderator: Prof. Yan Li	
17:10–18:00	**Panelists** Prof. Bojie Fu, Chinese Academy of Sciences, China Prof. David Eldridge, University of New South Wales, Australia Panel members, working groups of Global-DEP
Closing Ceremony · Sunday, 29 November 2026 Moderator: Prof. Mei-Po Kwan	
16:40–17:00	**Closing and Awards Ceremony**

Keynote Speaker Profiles



Bojie Fu is an Academician of the Chinese Academy of Sciences, a Fellow of The World Academy of Sciences, an International Honorary Member of the American Academy of Arts and Sciences, a Corresponding Fellow of the Royal Society of Edinburgh, and an Honorary Fellow of the Royal Geographical Society. He is a Distinguished Professor at the Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, and also serves as Chair of the Supervisory Board of the Geographical Society of China. His research focuses on physical geography and landscape ecology. He has made systematic and innovative contributions in the areas of land-use patterns and ecological processes, landscape ecology and ecosystem services, and sustainable development. Professor Fu has received numerous major awards and honors, including the Second Prize of the National Natural Science Award twice (2005 and 2020), the Second Prize of the National Sciences & Technology Advanced Prize, the Outstanding Science and Technology Achievement Prize of Chinese Academy of Sciences, the Ho Leung Ho Lee Prize for Scientific and Technological Progress, the Tan Kah Kee Science Award in Earth Sciences, the Volvo Environment Prize, the TWAS–Lenovo Science Award, the Alexander von Humboldt Medal of the European Geosciences Union, and the Award of Distinguished Service of the International Association for Landscape Ecology. He has also been named a CCTV 2019 Science and Technology Innovation Figure of the Year and a National Outstanding Professional and Technical Talent.



Mei-Po Kwan is Head of Chung Chi College, Choh-Ming Li Professor of Geography and Resource Management, and Director of the Institute of Space and Earth Information Science at the Chinese University of Hong Kong. Kwan is a Fellow of the World Academy of Sciences (TWAS), the U.K. Academy of Social Sciences, the Hong Kong Academy of Sciences, the American Association for the Advancement of Science (AAAS), the American Association of Geographers (AAG), the Royal Geographical Society (UK), the Geographical Society of China and Guggenheim Foundation. She ranked the world's top 10 and China's No. 1 in the field of geography in 2024, 2025 and 2026 according to the list of the World's Top 2% Scientists by Stanford University. She has received many prestigious honors and awards, including the James R. Anderson Medal of Honor in Applied Geography, the Distinguished Scholarship Honors, the Wilbanks Prize for Transformational Research in Geography, and the Stanley Brunn Award for Creativity in Geography from the AAG. In 2024, She received the Lifetime Achievement Award from the International Association of Chinese Professionals in Geographic Information Sciences. In 2026, Kwan received the prestigious IGU Lauréat d'Honneur by the International Geographical Union (IGU) for exceptional distinction in scholarship and outstanding service to the international geographic community. Kwan had served as an editor of Annals of the American Association of Geographers for 12 years. She has received over US$69 million grant support from sources including the U.S. National Institutes of Health, the U.S. National Science Foundation, the U.S. Department of Transportation, the National Natural Science Foundation of China, and the Hong Kong Research Grants Council. She has published 650 journal articles, books, and book chapters. She has delivered over 430 keynote addresses, invited lectures and other invited presentations in more than 20 countries. Kwan has made ground-breaking contributions to research on environmental health, human mobility, smart and sustainable cities, and geographic information science (GIScience).



Fahu Chen is an Academician of the Chinese Academy of Sciences, Chair of the China Committee of the International Geographical Union (IGU) and Chair of the ATES (Association for Trans-Eurasian Exchange Studies). He is Director of the Center for Excellence in Archaeological Science and Cultural Heritage at Lanzhou University, and leader of the Paleoecology and Human Adaptation Group at the Institute of Tibetan Plateau Research, Chinese Academy of Sciences (CAS). He also leads a distinguished research group supported by the National Natural Science Foundation of China (NSFC). He has previously served as President of the China Geographical Society, Director-General of the Institute of Tibetan Plateau Research of CAS, and Distinguished Professor of the 'Changjiang Scholars Program' of the Ministry of Education, China. He has led major projects including the National Key Research and Development Program of China, NSFC Basic Science Center Program, Innovative Research Group, and Distinguished Young Scholars Program. He is a recipient of the China Youth Science and Technology Award, National Advanced Worker Award, and the Ho Leung Ho Lee Foundation Prize for Scientific and Technological Progress. His research focuses on climate change, environmental change, and environmental archaeology, with current emphasis on prehistoric human settlement of the Tibetan Plateau, evolution of Silk Road civilizations, and past climate-environment interactions. He has published over 780 papers in journals such as Nature, Science, Science Bulletin, and Science China: Earth Sciences, with more than 46,000 citations and an H-index of 84 (107 on Google Scholar). He is recognized as a Highly Cited Researcher internationally. His achievements have earned him 10 first-prize provincial/ministerial awards for science and technology, two second-prize National Natural Science Awards of China (as the lead recipient), and recognitions including a Top 10 Scientific Breakthrough of the World, Top 10 Archaeological Discoveries of the World, Top 10 Scientific News Stories of the World, and Top 10 Scientific Advances of China.



Pengjun Zhao is a Full Professor and Dean of School of Urban Planning and Design, Peking University. He is a Fellow of the Academy of Social Sciences of UK (FAcSS), a Fellow of The Geographical Society of China and Editor-in-Chief of Cities. His work focuses on simulating urban and regional system with mathematics, computing and geospatial artificial intelligence. He developed the theories and AI-empowered modelling of Transport Territorial System to understand the complex relationship between transport and natural environment, land, economy and society. He has obtained more than RMB 35 million of research grants as the Principal Investigator (PI) for 60 research projects which were funded by international and China's organizations, such as EP7 (EU), EPSRC (UK), NSFC (CN), etc. He has published over 310 articles in international peer-review journals and 12 books. He is listed as World Highly Cited Researchers (2025-2026) by Clarivate, World Top 2% Scientists (Career-long Impact List and Single-year Impact (2021-2025, 5 years continuously) by Elsevier and Stanford University, and Highly Cited Chinese Researchers (2014-2025, 10 years continuously) by Elsevier.



Anthony G.O. Yeh is a Member of the Chinese Academy of Sciences and the Hong Kong Academy of Sciences, and a Fellow of TWAS (The World Academy of Sciences) and the Academy of Social Sciences UK. He is Chan To-Hann Professor in Urban Planning and Design, Chair Professor of Department of Urban Planning and Design, and Director of Centre of Urban Studies and Urban Planning. He has been Dean of the Graduate School, Director of the GIS Research Centre and Institute of Transport Studies at the University of Hong Kong. His main areas of specialization are in urban development and planning in Hong Kong, China, and South East Asia and the applications of geographic information systems (GIS) as a planning support system for smart cities. He received the UN-HABITAT Lecture Award in 2008 for his outstanding and sustained contribution to research, thinking and practice in the human settlements field. He has been President of the Asia GIS Association, Founding Secretary-General of the Asian Planning Schools Association and Asia GIS Association, Founding President of the Hong Kong GIS Association, Chairman of the Hong Kong Geographical Association, Vice-President of the Commonwealth Association of Planners, Vice-President of the Hong Kong Institute of Planners, and Chairman of the Geographic Information Science Commission of the International Geographic Union (IGU).



Justin Sheffield is a Professor of Hydrology and Remote Sensing at the University of Southampton, UK. His research focuses on large-scale hydrology and climate variability, with applications to water, food and energy security, particularly in developing regions, including monitoring and prediction systems. In recognition of his work on drought monitoring and hydrological hazards, he received the Plinius Medal from the European Geosciences Union in 2013, the Prince Sultan Bin Abdulaziz International Prize for Water in 2014, and was named the American Meteorological Society's Robert E.Horton Lecturer in Hydrology in 2019.



Jian Peng is a Boya Distinguished Professor at Peking University, specializes in the coupling of landscape patterns and social-ecological processes. He currently serves as President of the China Chapter of the International Association for Landscape Ecology, and Vice President and Secretary-General of the China Society of Natural Resources. He is Co-Editor-in-Chief of Applied Geography and Founding Editor-in-Chief of Transactions in Earth, Environment, and Sustainability.



Frank Witlox is a Senior Full Professor of Economic Geography and Head of the Department of Geography at Ghent University, holding a PhD in Urban Planning and master's degrees in Applied Economics and Maritime Sciences. He has extensive international teaching experience, including visiting professorships in Europe and China, specializing in transport geography, urban mobility, logistics, and economic geography. He co-leads the City & Mobility Research Group and chairs Ghent University's Institute for Sustainable Mobility Research, focusing on sustainable transport, travel behaviour, urban logistics, and spatial analysis. A highly productive scholar, he has authored over 1,200 publications, accumulated more than 31,100 citations on Google Scholar, W-o-S h-index of 69, and supervised over 40 completed PhD dissertations. He has held numerous academic leadership and editorial positions, including Director of Ghent University's Doctoral School of Natural Sciences and Editor-in-Chief of several leading transport and mobility journals. His international research impact has been recognized through repeated inclusion among Clarivate's Highly Cited Researchers and Stanford University's top 2% of scientists worldwide. His prestigious distinctions include two honorary doctorates (Estonia and Ukraine), membership in Academia Europaea, Fellowship of the UK Academy of Social Sciences, and the 2024 Alan Hay Award for outstanding contributions to transport geography.



Michael Meadows is the Immediate Past President of the International Geographical Union and is currently a professor in the School of Geography and Ocean Sciences at Nanjing University, China, but retains a senior research fellowship in the Department of Environmental and Geographical Science at the University of Cape Town, where he was Head of Department from 2001-2017. Meadows, with an h-index of 59, has authored or co-authored more than 300 peer-reviewed research articles, including in Nature, Nature Communications, Nature Geoscience, Nature Sustainability, Science Advances, PNAS, Geology, and Science Bulletin. He recently co-edited two major review volumes: Research Directions, Challenges and Achievements of Modern Geography (Springer, 2023) and Geography of the Anthropocene (Istanbul University Press, 2024). Meadows' research interests lie broadly in the field of physical geography and more specifically concern environmental change, sustainability, and the geomorphological and ecological impacts of recent natural and human-induced changes. Meadows is an elected Fellow of the Royal Geographical Society, the Society of South African Geographers, the Royal Society of South Africa, the African Academy of Science, Academia Europaea and the University of Cape Town. He is also a Fellow of the Geographical Society of China and of the International Science Council. He is a recipient of the 2024 Royal Society of South Africa's Marloth Medal for "highly distinguished, multidisciplinary contributions to the furtherance of science" and was recently presented with the Jiangsu Provincial International Science and Technology Cooperation Award.

Thematic Session Presentations

Editors Panel Discussion Session

CYT LT1 · Sunday, 29 November · 09:45–11:00

Moderator: Prof. Mei-Po Kwan (The Chinese University of Hong Kong)

Panelist: Prof. Bojie Fu (Chinese Academy of Sciences), Prof. Michael Meadows (Nanjing University & University of Cape Town), Prof. Frank Witlox (Ghent University), Prof. David Eldridge (University of New South Wales), Prof. Peifeng Ma (The Chinese University of Hong Kong)

Session 1: Student Paper Competition

CYT 201 · Sunday, 29 November · 11:20–12:35

Chair: Prof. Jue Wang (University of Toronto)

Committee chair: Prof. Prajal Pradhan (University of Groningen)

Committee members: Prof. Shurong Zhang (Beijing Normal University), Prof. Jue Wang (University of Toronto), Prof. Zherong Wu (The Chinese University of Hong Kong)

Presentation title	Speaker	Institution
The Impact of Human Activities on the Non-Stationarity of China's Terrestrial Water Cycle	Yuxuan Zhou	Beijing Normal University
Resilience-Reworking-Resistance: Food Deliverers' Spatial Praxis Under Platform Governance in Urban China	Zheyi Cheng	Harbin Institute of Technology (Shenzhen)
Calibrating Greenspace Exposure Assessments: How Multidimensional Indicators and Mobility across Geographic Contexts Redefine the Neighborhood Effect Averaging Problem (NEAP)	Lixian Su	The Chinese University of Hong Kong
Reducing burdens but reinforcing inequality? Intergenerational co-residence and gendered divisions of children's escorting	Yishu Xu	Harbin Institute of Technology (Shenzhen)
The Resilience of Commuting Behavior to Extreme Rainfall: Comparing Extreme and Non-Extreme Commuters in Shenzhen	Xinlu Wu	The Chinese University of Hong Kong (Shenzhen)

Session 2: Early Career Research Award

CYT LT1 · Sunday, 29 November · 11:20–12:35

Chair: Prof. Zihan Kan (The Chinese University of Hong Kong)

Committee chair: Prof. Frank Witlox (Ghent University)

Committee members: Prof. Jian Peng (Peking University), Prof. Wenwu Zhao (Beijing Normal University), Prof. Xiaoling Zhang (The University of Hong Kong)

Presentation title	Speaker	Institution
Similar Potential Despite Different Contexts of the 15-Minute Cityness between Global South and Global North Cities	Jianying Wang	Hong Kong University of Science and Tenchnology (Guangzhou)
From the Attenuation Factor to the Mitigating Factor: The Critical Role and Thoughts of Health Geography to Enhance the Health Association Estimation in Environmental Epidemiology	Yang Liu	The Chinese University of Hong Kong
When greenery matters for cycling routes: Route-level green exposure, heat stress, and detour trade-offs in three U.S. metropolitan areas	Jing Huang	The University of Tokyo
Towards Inclusive 15-Minute Cities: Geospatial Insights into Accessibility and Spatial Inequities in Barrier-Free Mobility	Zidong Yu	Hong Kong Polytechnic University
Global migration shifts settlement demand while sectors shape local carbon growth	Jingru Wang	The Chinese University of Hong Kong (Shenzhen)

Panel Discussion Session 3: Understanding Himalayan cities for the Future in the context of increasing natural disasters

CYT LT1 · Sunday, 29 November · 08:30–09:45

Moderator: Prof. Prajal Pradhan (University of Groningen)

Panelist: Bo Yu (Chinese Academy of Sciences), Kshitij Dahal (University of Kansas), Prof. Lei Wang (Chinese Academy of Sciences), Prof. Olli Varis (Alto University), Prof. Amond Mani Dixit (National Society for Earthquake Technology - Nepal), Saurav Dhakal (Story Cycle),

Presentation title	Speaker	Institution
Satellite Remote Sensing for Emergency Response and Risk Assessment of the 2026 Gyirong–Rasuwa Disaster	Bo Yu	Chinese Academy of Sciences
Recent complex rock-ice avalanche floods in a mountainous setting	Kshitij Dahal	University of Kansas

Session 4: Urban Green Infrastructure for Urban Sustainability: Formation Mechanisms and Synergistic Optimization of Social-Ecological Effect

CYT 209B · Sunday, 29 November

Co-chairs: Prof. Fanhua Kong (Nanjing University), Prof. Weiqi Zhou (Chinese Academy of Sciences)

Presentation title	Speaker	Institution
Session 4A · 08:30–09:45		
Assessing the Mitigation Capacity of Urban Forests Against Airborne Particles: Spatial Heterogeneity from Leaves to Regions	Shan Yin	Shanghai Jiao Tong University
Linking Urban Demographic Shifts to Vegetation Greening: Evidence from China's Divergent Cities, 2000–2020	Yujie Li	Beijing Forestry University
How Urban Green and Blue Spaces Relieve Mental Stress: A CES-Based Meta-Analysis	Xinran Zheng	Xian Jiaotong-Liverpool University
Sustainable Optimization of Green-Grey Stormwater Infrastructure	Fanhua Kong	Nanjing University
Urban Green Infrastructure for Climate Adaptation and Health in London: Policy Frames and Institutional Carriers	Yirong Jia	University College London
Session 4B · 09:45–11:00		
Spatially heterogeneous responses of global urban vegetation phenology to urban morphology and climate	Jiayu Fan	Xinjiang University
Greenness and Climate Resilience: Buffering Extreme Weather-Related Depression in Older Adults in China	Chenglong Wang	Nanjing University
Subjective well-being changes during China’s rapid urbanization	Ranhao Sun	Chinese Academy of Sciences
Responses of Ecosystem Functions to Human Activity Intensity and Their Driving Factors in the Beijing-Tianjin-Hebei Region	Jingjing Meng	Beijing Normal University
Narrowing urban heat disparities alongside faster greening in low-income neighborhoods across cities in the United States	Jie Cao	Chinese Academy of Sciences

Session 5: Spatial Governance and Optimization for Urban Ecosystem Services

CYT LT5 · Sunday, 29 November

Co-chairs: Prof. Zihan Xu (Beijing Forestry University), Prof. Yanxu Liu (Beijing Normal University), Prof. Jian Peng (Peking University), Prof. Pei Xia (South China Normal University)

Presentation title	Speaker	Institution
Session 5A · 14:00–15:15		
The ecological impacts of war persist after conflict attenuation: Evidence from ecosystem service value in Ukraine	Siyu Xue	Beijing Forestry University
Identifying the Driving Mechanisms of Spatiotemporal Changes in Ecosystem Service Value in the Guangxi Beibu Gulf Urban Agglomeration	Feili Wei	Guangxi Normal University
Temporal reorganization and resilience of ecosystem service–SDG networks in lake basins	Pei Xia	South China Normal University
Visible Lights, Invisible Shadows: A Tri-dimensional Framework of Spatial Deprivation and Structural Misalignment in Underdeveloped Regions	Chen zhantu	Guangxi Normal University
Modeling Urban Tree Shading Functions Using 3D Gaussian Splatting and Crowdsourced Videos	Shengnan Kong	China University of Geosciences (Wuhan)
Session 5B · 15:25–16:40		
Revealing Green Space Exposure Mismatch Based on Multivariate Big Data	Jianing Zhang	Chongqing University
Urbanization and Cultural Heritage Conservation	Pengfei Hu	Ningbo University
Digital Governance-Driven Sustainable Mobility and Environmental Well-Being Enhancement	Suhong Zhou	Sun Yat-sen University
Large language model as urban residents for daily greenspace exposure simulation	Haoran Ma	The Chinese University of Hong Kong
Urbanization Legacies in Urban Soils: Stage-Dependent Heavy Metal Accumulation and Health Risks in a Typical City in Northeast China	Songze Wu	Jilin University

Session 6: Recent Computational Tools for Climate-Resilient and Sustainable Cities

CYT 214 · Sunday, 29 November · 11:20–12:35

Co-chairs: Prof. Ying Yu (The Chinese University of Hong Kong (Shenzhen)), Prof. Xijing Li (California State Polytechnic University Pomona), Prof. Chenxi Lu (Tsinghua University), Qi Lin (New York University)

Presentation title	Speaker	Institution
Health co-benefits of climate mitigation of active travel (walking and cycling) in cities globally	Chenxi Lu	Tsinghua University
Assessing nature-based solutions for urban heat mitigation with GeoAI and street-view imagery	Ying Yu	The Chinese University of Hong Kong (Shenzhen)
Crowdsourced Visual Data-Driven 3D Reconstruction and Thermophysical Parameter Mapping for Urban Microclimate Simulation	Zhenxi Feng	China University of Geosciences(Wuhan)
Understanding greenspace-mental relationship using the lens of spatial-temporal-activity contexts	Changda Yu	The Chinese University of Hong Kong
Transcending boundaries for sustainable urban development: How land use and river networks shape flood resilience in the Yangtze River Economic Belt, China	Yuwen Zhou	Huazhong Agricultural University
Differentiated Impacts of Road Network Characteristics on Urban Heat Island Effect and Implications for Sustainable Transportation Planning: A Case Study of Changchun, China	Runchuan Feng	University of Groningen

Session 7: Sustainability of the intertwined urban system and agrifood system

CYT 201 · Sunday, 29 November

Co-chairs: Prof. Yuanchao Hu (Guangdong University of Technology), Prof. Xiaoxi Wang (Zhejiang University), Gang Xu (Wuhan University)

Presentation title	Speaker	Institution
Session 7A · 14:00–15:15		
Comprehensive improvements in global gridded crop models reduce uncertainty in climate risk assessment for sustainable agrifood systems	Yuchuan Luo	Southwest University
Rethinking food localization with delivered footprints: decarbonizing China's food system emissions within supply networks	Yanfeng Di	Nanjing University
Farm Size, Technical Efficiency, and Environmental Performance: Evidence from China	Xiaoxi Wang	Zhejiang University
Beyond emission factors: process-based quantification of greenhouse gas emissions from global wastewater treatment plants	Tongzhou Wang	Nankai University
Linking Agrifood Production and Consumption for Sustainable Nitrogen Management	Kaiyue Wang	Nankai University
Session 7B · 15:25–16:40		
The Hidden Environmental Impacts of Emerging Aquaculture in Metropolitan Regions	Yuanchao Hu	Guangdong University of Technology
Assessing county-level urban–rural integrated development in China from a coupling perspective, 2001-2020	Sujuan Zhong	Nanjing University
Context-specific optimization across agricultural production processes supports global sustainable intensification	Fu Bin,	Lanzhou University
Digitizing the Sweet Orange Value Chain to Reduce Food Miles and Empower Indigenous Women Traders in Nepal	Saurav Dhakal	Story Cycle
Multiple Environmental Footprints and Sustainability of Household Food Consumption in China: Spatiotemporal Patterns and Driving Mechanisms	Lina Liu	Chinese Academy of Sciences



Session 8: Living in urban drylands: exploring problems and developing solutions

CYT 202 · Sunday, 29 November · 11:20–12:35

Co-chairs: Prof. David Eldridge (University of New South Wales), Prof. Jingyi Ding (Beijing Normal University)

Presentation title	Speaker	Institution
Declining greenness under the rapid expansion of the wildland–urban interface on the Qinghai-Tibetan Plateau	Rui Xiao	Beijing Normal University
Crop optimization improves agricultural performance but intensifies irrigation water mismatches in the Yellow River Basin	Yueman Hou	Beijing Normal University
Urban parks in drylands sustain healthy functional soils	David Eldridge	University of New South Wales
Urbanization can have contradictory impacts on ecological restoration performance in dryland region: evidence from the Chinese Loess Plateau	Yihe Lyu	Chinese Academy of Sciences
Cross-layer resilience assessment of social-ecological-carbon multilayer networks under desertification disturbance in arid oases of Alxa, Inner Mongolia	Shipeng Xu	The Party School of CPC Alxa Left Banner Committee

Session 9: Advanced Geospatial Technologies for Sustainable Urban Transitions: Equity, Health, and Resilience

CYT 215 · Sunday, 29 November

Co-chairs: Prof. Dong Liu (The Chinese University of Hong Kong (Shenzhen)), Prof. Zihan Kan (The Chinese University of Hong Kong), Yang Liu (The Chinese University of Hong Kong), Xingang Zhou (Tongji University), Xiao Fu (Nanjing Normal University)

Presentation title	Speaker	Institution
Session 9A · 08:30–09:45		
Beneficial transboundary interactions of city clusters accelerate SDGs progress	Yan Liu	Nanjing Normal University
Geographic Distribution and Perceived Quality of Healthcare Space: A Text-Mining and Lasso Regression Study of Public and Private Hospitals in Beijing	Ziqi Yi	Beijing Jiaotong University
Street-level Environmental Exposure Heterogeneity Patterns Associate with Physical Activity in Shanghai Neighborhood	Yuxuan Yang	Shanghai Jiao Tong University
Greenspace morphology and mental well-being: a mobility-based study on urban stress and emotion	Lingwei Zheng	The Chinese University of Hong Kong
A network-based framework for evaluating mobility-related social exclusion risk in spatiotemporal activities	Zihan Kan	The Chinese University of Hong Kong
Session 9B · 09:45–11:00		
The impacts of extreme hot weather and built environment on resilience of cycling and metro trips	Xingang Zhou	Tongji University
AI and Urban Environmental Sustainability: Rethinking Human–Environment Relations in the New Era	Haimeng Liu	Chinese Academy of Sciences
A GeoAI Framework Integrating Spatial Infection Risk and Calibrated Vaccination Accessibility: A 3D Network Analysis in Hong Kong	Dong Liu	The Chinese University of Hong Kong (Shenzhen)
From Clicks to Streets: Quantifying Urban Residents' Engagement in Virtual Communities and Its Imprints on Space–Time Activity Patterns	Junwen Lu	Sun Yat-sen University
Connecting mobility and economy in the greater bay area: a network-based assessment of spatial synergies	Qionghuan Liu	Changsha University of Science and Technology

Session 9C

CYT 215 · Sunday, 29 November · 11:20–12:35

Presentation title	Speaker	Institution
Beyond Metropolitan Totals: Population Redistribution and Land-Use Pressures in Post-Socialist Urban Regions	Oliver-Valentin Dinter	Alexandru Ioan Cuza University of Iași; University of Tours
Research Report on Privacy Protection Methods for Multi-condition Range Queries of Trajectory Synthesis Data in Sustainable Cities	Kunchang Li	Beijing Wuzi University
Uncovering Historical City Connections with Satellite Imagery	Fan Zhang	Peking University
Evergreen or Deciduous? Long-term Restructuring of Urban Forests and its Implications for the Synergistic Optimization of Social-Ecological Effects	Ziyao Zhu	East China Normal University

Session 10: Sustainable Development Beyond 2030: Urban Pathways, SDG Transformations, and Future Sustainability Agendas

CYT 214 · Sunday, 29 November

Co-chairs: Prof. Haiyan Lu (Harbin Institute of Technology (Shenzhen)), Prof. Junze Zhang (Chinese Academy of Sciences)

Presentation title	Speaker	Institution
Session 10A · 08:30–09:45		
Achieving the Sustainable Development Goals amid Demographic Changes in China	Wentong Yang	Nanjing Normal University
Spatial Distribution Patterns of AI Innovations in Japan and Their Determinants	Xue Peng	Asian Growth Research Institute
Localising the Sustainable Development Goals: An Integrated Framework for Subnational Assessment across Romania, Hungary, and Central Asia	Jozsef Benedek	Babeș-Bolyai University; Budapest Metropolitan University
Reconstructing Six Decades of Urban Growth Using Historical CORONA and Planet Imagery: A Harmonized Framework for SDG 11.3.1 Assessment	Kinga Temerdek-Ivan	Babes-Bolyai University
Uneven Regional Development Pathways: Convergence Clubs and Implications for Sustainable Territorial Governance	Ibolya Török	Babes-Bolyai University
Session 10B · 09:45–11:00		
Country-specific Sustainable Development Goals (SDGs) target prioritization using Machine learning	Utkarsh Ashok Khot	University of Groningen
Threefold approach of sustainable transformation by 2030 and beyond	Prajal Pradhan	University of Groningen
Tracking Greenhouse Gas Emissions from Deforestation in China's Interprovincial Supply Chains	Mimi Gong	Beijing Normal University
Supporting our Sustainable Future: A Shared Decision-Guiding Principle	Junze Zhang	Chinese Academy of Sciences
Sustainable City Brands Boost Global Urban Economic Performance	Haiyan Lu	Harbin Institute of Technology (Shenzhen)

Session 11: Urban Ecological Space Expansion and Management

CYT LT1 · Sunday, 29 November

Co-chairs: Prof. Wenwu Zhao (Beijing Normal University), Prof. Nan Lu (Chinese Academy of Sciences), Prof. Mingyue Zhao (Chinese Academy of Agricultural Sciences)

Presentation title	Speaker	Institution
Session 11A · 14:00–15:15		
Revealing the climate functions of urban ventilation corridors beyond surface winds	Le Hui	Beijing Normal University
Research framework for integrated geography	Wenwu Zhao	Beijing Normal University
Global Mammal Conservation Networks: Spatiotemporal Dynamics and Resilience	Zechen Wang	Beijing Normal University
Rising sustainability coordination scores mask shifting bottlenecks in rapidly urbanizing agricultural regions	Zhenyu Zhang	Beijing Normal University
Spatiotemporal Differentiation of Ecosystem Service Value and Ecological Space Optimization and Management in Yunnan Province under Urban Expansion: A G-XGBoost–SHAP Approach	Yan Yulong	Yunnan University
Mapping landscape aesthetics supply in urban lakes in Telšiai (Lithuania)	Paulo Pereira	Mykolas Romeris University
Session 11B · 15:25–16:40		
Biodiversity-friendly wind energy developments necessitate concern over the indirect waterbird diversity-stability effects	Shanshan Zhao	China Jiliang University
Landscape Pattern Mediates Carbon-Water Ecosystem Service Coordination in a Watershed Economic Belt	Xuejing Leng	Hohai University
Mapping and assessing urban ecosystem condition in Lithuania	Miguel Inácio	Mykolas Romeris University
Environmental characteristics' impacts on vegetation carbon sequestration in a Vilnius urban area (Lithuania)	Paulo Pereira	Mykolas Romeris University
Multi-dimensional Territorial Spatial Function Conflicts in the Beijing-Tianjin-Hebei Region: Identification and Zoned Regulation	Mingyue Zhao	Chinese Academy of Agricultural Sciences

Session 12: Multi-Source Remote Sensing and AI-Enabled Assessment of Urban Infrastructure Health, Resilience, and Carbon Sustainability

CYT 214 · Sunday, 29 November

Co-chairs: Prof. Zhen Liu (The Chinese University of Hong Kong), Prof. Songhua Hu (City University of Hong Kong), Prof. Yang Liu (Kunming University of Science and Technology), Xiaorui Yan (The Chinese University of Hong Kong)

Presentation title	Speaker	Institution
Session 12A · 14:00–15:15		
Ubiquitous data-driven framework for traffic emission estimation and policy evaluation	Songhua Hu	City University of Hong Kong
Assessing the aggravation and mitigation of urban heat island by dynamic impervious surface trajectories in Asia	Gong Jie	Lanzhou University
Multimodal Remote Sensing and Deep Learning for Multi-Scale Assessment of Urban Green Space Carbon Sinks	Zhen Liu	The Chinese University of Hong Kong
Can multimodal transit boost urban mobility appeal? Evidence from spatial machine learning	Yang Liu	Kunming University of Science and Technology
A Method for Accounting Building Embodied Carbon Emissions at the Urban District Scale for Consumption-Side Responsibility Tracing and Its Application	Zujian Huang	South China University of Technology
Session 12B · 15:25–16:40		
Eye-Level Urban Form and the Day–Night Land Surface Temperature Difference: Spatially Non-Stationary Associations across Seoul	Daeun Lee	Chung-Ang University
Unraveling Spatial Heterogeneity and Nonlinearity: A Dual-Method Analysis of the Impacts of Built Environment Factors on Ride-Hailing Demand	Zhuangbin Shi	Kunming University of Science and Technology
Unequal exposure to socioeconomic diversity in the China workplace	Xiaorui Yan	The Chinese University of Hong Kong
Social Remote Sensing in the GeoAI Era: Advances and Applications for Sustainable Cities	Shaohua Wang	Chinese Academy of Sciences
High-resolution mapping of soil organic carbon loss from InSAR-observed surface subsidence	Fangxu Deng	The Chinese University of Hong Kong



Session 13: Carbon Dynamics for Sustainable Development: Monitoring, Mechanisms and Pathways

CYT 215 · Sunday, 29 November

Co-chairs: Prof. Zherong Wu (The Chinese University of Hong Kong), Dr. Jianwei Huang (The Chinese University of Hong Kong), Fangxu Deng (The Chinese University of Hong Kong), Qianxin Wang (The Chinese University of Hong Kong)

Presentation title	Speaker	Institution
Session 13A · 14:00–15:15		
From Release to Transformation: Elucidating the Microplastic-Facilitated Fate of Brominated Additives in Soil	Ying Zhang	Nanjing University
Decarbonizing urban water resources, a pathway for net zero carbon emissions and healthier and ecologically sustainable cities in China	Giri Raj Kattel	The University of Melbourne
Carboxylation reactions in the oxidation of phenolics: kinetics, reaction mechanisms, and theoretical calculations	Mengqiang He	Nanjing University
Policy-driven land-cover transitions dominate China's county-level greening with ecological benefits	Zherong Wu	The Chinese University of Hong Kong
Differences in life history strategies of bacteria between paddy and upland soils and implications for carbon sequestration	Chaolei Yuan	Sun Yat-sen University
Session 13B · 15:25–16:40		
Geological Single Atoms in Coal Enable Circular Carbon Management through Waste-Treats-Waste Water Purification	Wenqian Cao	Nanjing University
Urban carbon governance must go spatial: grid-scale evidence from a rapidly urbanizing Chinese district	Weifeng Li	Chinese Academy of Sciences
Scale-adjusted urban carbon performance: Evidence from urban scaling and explainable machine learning	Suli Lin	Nanjing University
Research on the extraterritorial effects of carbon sequestration services and ecological compensation of typical ecosystems in Qinling-Daba Mountainous area	Jing Li	Shaanxi Normal University
A Study on the Evaluation Index System for Corporate Social Responsibility of Chinese Enterprises under the Carbon Neutrality Goal	Zhenyu Zhang	Taiyuan University of Technology

Session 14: Urban Resilience in Climate-Constrained Cities: Sustainable Transitions toward Low-Carbon and Adaptive Futures

CYT 209B · Sunday, 29 November

Co-chairs: Dr. Huan Li (The Chinese University of Hong Kong), Prof. Chen Yang (Northwestern Polytechnical University)

Presentation title	Speaker	Institution
Session 14A · 14:00–15:15		
Fundamental Introduction and Practical Explorations of Chinese Geographical Science	Shiwen Ding	Chinese Academy of Sciences
Corruption Prevention as a Prerequisite for Climate Resilience: Lessons from Transit Decarbonization in the Philippines and Ontario	Eugenio Santiago III	Philippine Christian University; Polytechnic University of the Philippines; National University
Reassessing the Heterogeneous Effects of Greenspace on Air Pollution Conditioned on Seasons, Vegetation Types, and Street Structures	Zhenchuan Yang	The Chinese University of Hong Kong
Designing Effective Climate Finance Policies A Context-Dependency Framework from China's Green Finance and Land Use Experience	Huan Li	The Chinese University of Hong Kong
Do government subsidy policies promote the energy transition resilience of enterprises? Empirical Evidence from China	Chen Yang	Northwestern Polytechnical University, China
Session 14B · 15:25–16:40		
Urban Air Mobility in Sustainable Regional Transport Transitions: Accessibility and Spatial Complementarity with High-Speed Rail	Shuangtian Mi	Harbin Institute of Technology (Shenzhen)
Influence of Quantum Dots on Heavy Metal Immobilization and Organic Carbon Fixation in Contaminated Soils	Chuangye Yao	Xiangnan University
Towards Sustainable Transport: Low-Carbon Equity in Shared Mobility for Shopping Trips	Zongcai Wei	South China University of Technology
Urban ecological space and human health: a landscape sustainability perspective	Xuening Fang	Shanghai Normal University, China
Coordinated Optimization of Energy and Material Flows for Regional Net-Zero Transitions and Low-Carbon Transport	Teng Zhou	The Hong Kong University of Science and Technology (Guangzhou)

Session 15: Urban AI and Sustainable Mobility

CYT LT4 · Sunday, 29 November

Co-chairs: Prof. Sylvia Y. He (The Chinese University of Hong Kong), Prof. Shuli Luo (The Chinese University of Hong Kong (Shenzhen)), Prof. Zihan Kan (The Chinese University of Hong Kong), Prof. Haiyan Hao (The Chinese University of Hong Kong (Shenzhen))

Presentation title	Speaker	Institution
Session 15A · 08:30–09:45		
Urban AI Simulation for Heat-Resilient Walking: Synthetic-Persona Microclimate-Adaptive Route Choice in Seoul's Historic Core	Keunyoung Lee	Chung-Ang University
Uncovering the Spatio-Temporal Morphology of Informal Curb Activities using Human Mobility Data	Haiyan Hao	The Chinese University of Hong Kong (Shenzhen)
Spatial Bias in Multimodal Large Language Model Reasoning: Divergence from Human perceptions of Cycling Safety	Lurong Xu	Monash University
From Utilization to Planning: Public Charging Infrastructure Optimization Based on Station Usage Data	Sylvia Y. He	The Chinese University of Hong Kong
Accessibility to hierarchical centers and travel-related carbon emissions in a polycentric city	Ling Li	Peking University
Session 15B · 09:45–11:00		
The Uneven Geography of Generative AI's Capabilities: Implications for Urban Analytics Research and Policy	Junghwan Kim	Virginia Tech
Revealing Nonlinear Built Environment Effects on Shared-Bike Route Choice: A Theory-Driven Machine Learning Approach	Chieh Hsueh	National Taiwan University
Park-and-Ride as a Sustainable Transport Strategy: Analyzing User Activity-Travel Patterns with Large Language Models	Xiao Fu	Nanjing Normal University
The double-edged sword of the 15-minute city: Mediation and moderation effects of built environment on social segregation	Si Qiao	The Hong Kong University of Science and Technology (Guangzhou)
Beyond Charger Counts: Incorporating User-Perceived Service Quality into Public EV Charging Accessibility	Yiming He	Ocean University of China

Session 15C

CYT LT4 · Sunday, 29 November · 11:20–12:35

Presentation title	Speaker	Institution
Exploring the recreational micromobility in relation to historic urban areas and social media: Insights from machine learning approaches	Xinjian Li	South China University of Technology
Mobility as Language: Mining Human Activity-Travel Patterns through Spatiotemporal Semantic Embedding	Wenxiang Li	University of Shanghai for Science and Technology
Network representation and simulated pedestrian flow in an integrated indoor and outdoor campus network	Ding Ma	Shenzhen University
Shared E-Bikes: A Missing Piece of Sustainable Urban Mobility in Chinese Cities?	Xiang Liu	Tongji University
Underlying rules of evolutionary urban systems in Africa	Gang Xu	Wuhan University

Session 16: Coastal social-ecological system resilience under Global Change

CYT 202 · Sunday, 29 November

Co-chairs: Prof. Xiaoling Zhang (The University of Hong Kong), Prof. Michael Meadows (Nanjing University & University of Cape Town), Prof. Zhaoyuan Yu (Nanjing Normal University), Prof. Ke Zhang (Chinese Academy of Sciences)

Presentation title	Speaker	Institution
Session 16A · 08:30–09:45		
Staged diffusion in urban mobility and its quantum-walk characterization	Luojian Tan	Nanjing Normal University
The COAST-WISE Project: Coastal Ocean Analysis with Spatial-Temporal World Intelligence for Sustainable Environment	Zhaoyuan Yu	Nanjing Normal University
Coastal flooding under land subsidence and sea-level rise in the Greater Bay Area, China	Xie Hu	Peking University
Research on Spatial Scene Optimization in the Guangdong–Hong Kong–Macao Greater Bay Area	Fengqin Yan	Chinese Academy of Sciences
Transient social-ecological dynamics and resilience reveal signals of decoupling in a highly disturbed landscape of the Yangtze River Delta	Ke Zhang	Chinese Academy of Sciences
Session 16B · 09:45–11:00		
Persistent and unequal deficits in global power-grid recovery from climate extremes	Fan Zhang	South China Normal University
Resilience Assessment and Synergistic Enhancement Pathways for Coastal Urban Social–Ecological Systems	Bin Chen	Beijing Normal University
Assessing Coastal Inundation Exposure Under Sea-Level Rise and Land Subsidence: A Case Study of the Greater Bay Area, China	Yi Zheng	The Chinese University of Hong Kong
Geospatial Machine Learning for Tropical Urban Heat Resilience: A 100-m Index for Metro Manila, Philippines	Maribel C. Tubera	De La Salle-College of Saint Benilde

Session 17: Transition to Renewable Energy under Climate Change and Urbanization

CYT 201 · Sunday, 29 November

Co-chairs: Prof. Laibao Liu (The University of Hong Kong), Prof. Yan Li (Beijing Normal University), Prof. Fei Liu (Sun Yat-sen University)

Presentation title	Speaker	Institution
Session 17A · 08:30–09:45		
LLM Agents for Power Systems: Human–Machine Collaboration, Key Technologies, and Paradigm Shift	Junhua Zhao	The Chinese University of Hong Kong (Shenzhen)
Large-scale photovoltaic deployment in the Taklamakan Desert could intensify regional water stress	Zhengyao Lu	Xiamen University
Sub-seasonal Prediction of Atmospheric-Driven Supply-Demand Whiplash in China's Renewable Energy Grid	Linshan Yang	Sun Yat-Sen University
A framework for photovoltaic mapping across heterogeneous land-use types using Sentinel-2 imagery	Xiaoxia Wang	Shaanxi Normal University
Session 17B · 09:45–11:00		
Electrostatic-Responsive Enhanced Filtration: An Energy- and Carbon-Saving Pathway for Building Ventilation in Sustainable Cities	Enze Tian	Chinese Academy of Sciences
Construction of High-Resolution Hourly Historical and Future Surface Shortwave Radiation Datasets over China	Yongkang Wang	Beijing Normal University
Sustainable Cities: Safety Challenges and Resilience Measures for Hydrogen Refueling Stations	Chao Chen	Southwest Petroleum University
Reachable surplus instead of generation potential determines photovoltaic allocation in China	Xinyang Zhang	Beijing Forestry University
Uncertainty-Aware Multi-Agent Diagnosis of Megacity Water-Energy-Carbon Cascades	Xue Zhang	Zhengzhou University

Session 18: Urban and Transport Resilience under Climate Change: Emerging Perspectives and Approaches

CYT 209A · Sunday, 29 November · 11:20–12:35

Co-chairs: Prof. Junqing Tang (Peking University), Prof. Pengjun Zhao (Peking University)

Presentation title	Speaker	Institution
Urban Flooding and Human Mobility: Human–Environment–Hazard Dynamics	Junqing Tang	Peking University
Cross-city traffic noise modeling and inequality analysis via AlphaEarth Geospatial Foundation Models	Yan Zhang	The Chinese University of Hong Kong
Review and Prospects: Application of Spatio-Temporal Big Data in Transportation System Resilience Studies	Mengqi An	Peking University
Community-Led Low-Carbon Tourism Business Opportunities in Nepal: Scaling The Fort Stage Ride Across Himalayan Mountain Cities and Heritage Corridors	Saurav Dhakal	Story Cycle
Timescales of High-Speed Rail station area development in urban China: From the perspective of matching urban physical development and functional vitality	Lei Wang	Chinese Academy of Sciences

Session 19: Environmental Exposure, Spatiotemporal Behavior, and Health: Toward Sustainable and Healthy Cities

CYT 209A · Sunday, 29 November

Co-chairs: Prof. Yue Shen (East China Normal University), Prof. Na Ta (East China Normal University), Prof. Chun Yin (Wuhan University), Jiangjun Wan (Sichuan Agricultural University)

Presentation title	Speaker	Institution
Session 19A · 08:30–09:45		
Aligning Perceptions with Street-View Imagery via Machine Learning: A Framework for Evaluating Age-Friendly Pedestrian Environments	Jiangjun Wan	Sichuan Agricultural University
Understanding the Link Between Food Environments and Obesity	Chun Yin	Wuhan University
The Disappearing Sky During Urbanization Makes People Less Cooperative	Siyang Luo	Sun Yat-sen University
Healthy Community Environments and Cardiometabolic Health among Older Adults in Shanghai	Na Ta	East China Normal University
Urban Building-Stock Heterogeneity Reshapes the Spatial Distribution of Residential Air Pollution Exposure: Evidence from Nanjing, China	Shanshan Shi	Nanjing University
Session 19B · 09:45–11:00		
Reducing uncertainty in environmental exposure assessment for recreational walking and cycling: From geospatial processing to causal inference	Haochen Shi	Guangzhou University
Pathways from Neighborhood Infrastructure to Healthy Aging: How Terrain-Adjusted Accessibility Shapes Older Adults' Perceptions and Physical Activity in Korean Cities	Geunyoung Park	Kangwon National University
Human-induced climate change and heatwave-related cardiovascular incidence in China: a multicounty attribution study	Junpei Tao	Beijing Normal University
Preference and constraint mechanisms of spatial choice: A perspective from activity-space segregation	Zhong Zheng	Beijing Normal University
Spatial Reasoning in the Age of GeoAI: Rethinking Mobility and Exposure for GeoHealth Research	Jue Wang	University of Toronto

Session 20: Rethinking GeoHealth for Sustainable Future Cities

CYT 209A · Sunday, 29 November

Co-chairs: Prof. Jue Wang (University of Toronto), Prof. Peiling Zhou (Harbin Institute of Technology (Shenzhen)), Prof. Wanyang Hu (City University of Hong Kong), Xintao Liu (Hong Kong Polytechnic University)

Presentation title	Speaker	Institution
Session 20A · 14:00–15:15		
Beyond Family Care: How Home- and Community-Based Services Complement Family Care to Reduce Unmet Care Needs and Enhance the Well-Being Among Older Adults With Disabilities	Wanyang Hu	City University of Hong Kong
Parenthood Reshapes Urban Environmental Exposure: A Life-Course Analysis of Neighborhood Effect Bias in Shenzhen	Peiling Zhou	Harbin Institute of Technology (Shenzhen)
The Influence of Spatial Factors on Social Capital among Urban and Rural Residents and the Mental Health Effects	Yue Shen	East China Normal University
Rethinking urban polycentricity for GeoHealth: Identifying employment centers from cellphone-derived jobs-housing relationships via spatial clustering	Jin Sun	Hohai University
Exploring the Human Digital Twin for Smart Cities	Xintao Liu	Hong Kong Polytechnic University
Session 20B · 15:25–16:40		
Prenatal Exposure to Per- and Polyfluoroalkyl Substances and Early Childhood Neurodevelopment: Evidence from Urban Birth Cohort toward Sustainable Healthy Cities	Hongxiu Liu	Hainan University
Heterogeneous changes in mobility in response to the SARS-CoV-2 Omicron BA.2 outbreak in Shanghai	Juanjuan Zhang	Fudan University
Association of real-time noise exposure with rest-activity circadian rhythms and sleep health: a 7-day longitudinal measures among shiftwork nurses	Xueqiong Weng	The Chinese University of Hong Kong
Sustainable and Equitable Urban Regeneration: Low-income Communities' Built Environment and Residents' Spatio-temporal Needs	Hui Wang	Nanjing Forestry University
More movement, better wellbeing, or both? Examining age-specific pathways in digital self-management of chronic lower back pain	Junwei Zhang	Lingnan University

Session 21: Urban Sustainability under Hydro-Meteorological Extremes and Environmental Hazards

CYT 202 · Sunday, 29 November

Co-chairs: Prof. Yongqin David Chen (The Chinese University of Hong Kong (Shenzhen)), Prof. Jianfeng Li (The Chinese University of Hong Kong), Prof. Xingcheng Lu (The Chinese University of Hong Kong), Chong-Yu Xu (University of Oslo)

Presentation title	Speaker	Institution
Session 21A · 14:00–15:15		
Urban Flood and Geological Hazard Early Warning Systems and Sponge City Practices in Norway — Implications for Compound Hazard Resilience Management	Chong-Yu Xu	University of Oslo
Extreme Weather and Mental Health Among Older Adults in Chinese Cities	Jianfeng Li	The Chinese University of Hong Kong
Flood Risk under Rural Landscape Character Conservation Constraints: Multi-scale Assessment in Metropolitan Shanghai	Sixu Lin	Shanghai Jiao Tong University
Global hillside urban expansion: Spatiotemporal dynamics, ecological effects and implications for sustainable development	Kaifang Shi	Anhui Normal University
Future Soil Water Erosion across China under Climate and Land Use Change: Implications for Sustainable Cities	Wen Dai	Nanjing University of Information Science and Technology
Session 21B · 15:25–16:40		
Empirical parametric modeling of vertical wind spiral in urban boundary layer using lidar measurements	Changqing Lin	Chinese Academy of Sciences
Rising dengue risk with increasing ENSO amplitude and teleconnections	Yunyu Tian	Tongji University
Assessment of Green Roof Heat Mitigation During Heatwaves Using a Hybrid Modeling Framework	Xingcheng Lu	The Chinese University of Hong Kong
Intensification of rainstorm and compound floods under global warming in Hong Kong	Yongqin David Chen	The Chinese University of Hong Kong (Shenzhen)

Session 22: Climate Resilience and Sustainability across the Urban-Rural Continuum

CYT 209B · Sunday, 29 November · 11:20–12:35

Co-chairs: Prof. Chen Zeng (Huazhong Agricultural University), Prof. Peiheng Yu (Northwest A&F University), Tianyu Lv (Wuhan University)

Presentation title	Speaker	Institution
Does cropland fragmentation always lead to abandonment? Evidence of non-linear relationships and heterogeneous patterns across China's major function-oriented zones	Chen Zeng	Huazhong Agricultural University
Energy Enterprise Embeddedness and Urban Green Development Resilience in China	Xingwei Lu	Huazhong Agricultural University
Unifying urban governance to resolve market distortion: Evidence from industrial land transactions of China	Guangyu Cheng	Huazhong Agricultural University
Changes in Cropland Use Embodied in Global Agricultural Product Consumption and Their Driving Factors	Cai Li	Huazhong Agricultural University
Urban form and growth patterns shape trade-offs and synergies between carbon emissions and heatwave exposure	Tianyu Lyu	Wuhan University
Towards climate-responsive urban spatial governance: Spatial elements and carbon emissions in old urban districts	Zhuoling Li	Northwest A&F University

Poster Session

CYT foyer space

Poster title	Authors	Affiliations
Residents' cognition of ecological space expansion in the Beijing–Tianjin–Hebei region	Xu Liu[1,2], Wenwu Zhao[1,2,*], Shuo Chen[1,2], Yiming An[1,2], Yinzhe Liu[1,2], Fangying Lv[1,2], Qingyu Li[1,2]	1 State Key Laboratory of Earth Surface Processes and Disaster Risk Reduction, Faculty of Geographical Science, Beijing Normal University, Beijing 100875, China 2 Institute of Land Surface System and Sustainable Development, Faculty of Geographical Science, Beijing Normal University, Beijing 100875, China
Stakeholder perceptions of nature-based solutions in China's dryland ecological restoration: A comparative study between agricultural and pastoral communities	Yijia Wang[1], Wanrou Zheng[2], Xiao Zhang[3,*], Bo Hu[4], Xinxing Wang[2], Shuai Wang[2], Jun Wang[3], Yanxu Liu[2]	1 School of Geography, South China Normal University, Guangzhou 510631, China 2 State Key Laboratory of Earth Surface Processes and Disaster Risk Reduction, Faculty of Geographical Science, Beijing Normal University, Beijing 100875, China 3 Key Laboratory of Land Consolidation and Rehabilitation, MNR, Beijing 100035, China 4 School of Social and Behavioral Sciences, Nanjing University, Nanjing 210023, China
Grazing thresholds based on mean NPP and NPP trends support region-specific grazing management in Xinjiang grasslands	Jiaxin Li[1,2], Wenwu Zhao[1,2*], Jingyi Ding[1,2], Weiling Niu[1,2], Yiyin Liu[1,2], Weiwei Zhu[3], Paulo Pereira[4]	1,2 Beijing Normal University, China 3 Chinese Academy of Sciences, China 4 Mykolas Romeris University, Lithuania
Validation of a climate emotion scale: assessing the impact of climate emotions on youth mental health	Hiu Yu Natalie Tang[a], Hon Ming Lam[b],Hanbin Zhang[c], Lap Ah Tse[a*]	a JC School of Public Health and Primary Care, The Chinese University of Hong Kong, Hong Kong SAR, China b School of Life Sciences, The Chinese University of Hong Kong, Hong Kong SAR, China c Department of Public Health and Sport Sciences, University of Exeter, Exeter, United Kingdom
Intelligent Perception and Cooperative Control for Sustainable High-Density Railway Mobility	Nan Jia[1], Haifeng Song[1,*], Shaoqing Liu[2], Junfeng Cui[3], Hairong Dong[4]	1School of Electronic and Information Engineering, Beihang University, Beijing 100191, P. R. China 2National Engineering Research Center for High-Speed Train, Qingdao, Shandong 266000, P. R. China 3Beijing National Railway Research and Design Institute of Signal and Communication, Beijing 100073, P. R. China 4College of Electronics and Information Engineering, Tongji University, Shanghai 201804, P. R. China

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Ecosystem health assessment and comparison of natural and urban wetlands in the arid zone of northwest China	Liang Jiao[a,b]	a College of Geography and Environment Sciences, Northwest Normal University, Lanzhou, China b Key Laboratory of Resource Environment and Sustainable Development of Oasis, Gansu Province, China
Progress in research on the water-centered nexus	Shuo Chen[1,2], Wenwu Zhao[1,2,*], Paulo Pereira[3]	1 State Key Laboratory of Earth Surface Processes and Disaster Risk Reduction, Faculty of Geographical Science, Beijing Normal University, China 2 Institute of Land Surface System and Sustainable Development, Beijing Normal University, China 3 Environmental Management Center, Mykolas Romeris University, Lithuania
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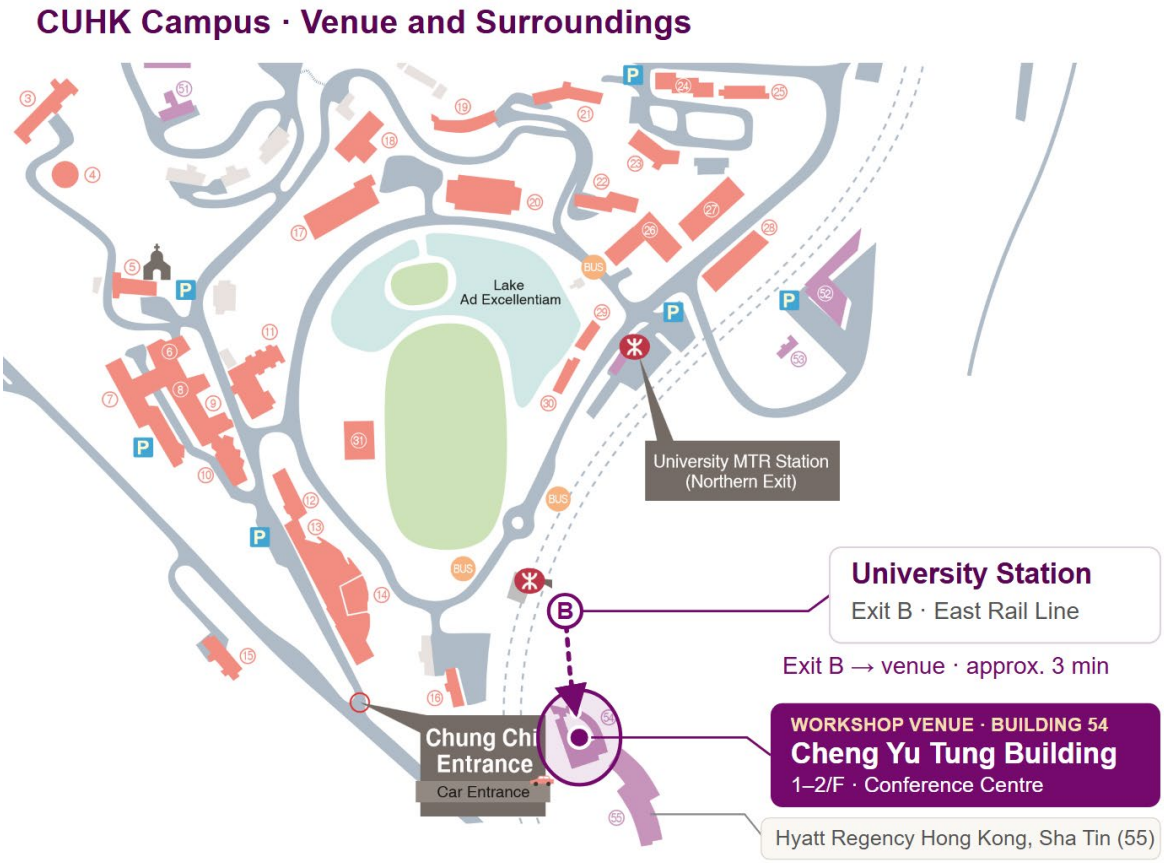
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The expansion of agricultural landscape since the 1960s has been correlated with increasing environmental pressures in global drylands	Yuanchen Wang[1],Yanxu Liu[1,*],Shuai Wang[1],Bojie Fu[2,3]	1 State Key Laboratory of Earth Surface Processes and Hazards Risk Governance, Beijing Normal University, Beijing, China 2 State Key Laboratory of Regiona land Urban Ecology, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, China 3 Shaanxi Yan'an Forest Ecosystem Observation and Research Station, Beijing, China

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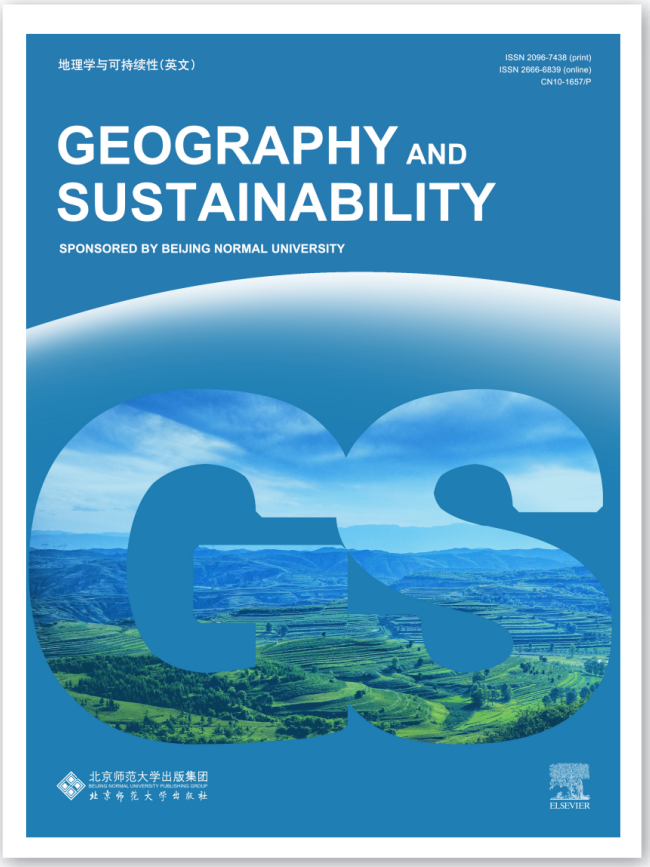
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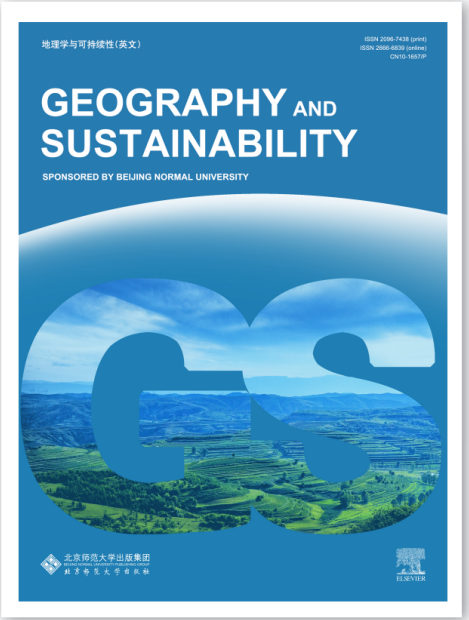
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