



中国地理学会
The Geographical Society of China



International Workshop on Geography and Sustainability 2021

Theme: Geography of the Anthropocene: Transforming our world for sustainable development

<http://geosus2021.scievent.com/>

(23-24 November, 2021, online)

Organized by: Faculty of Geographical science, Beijing Normal University, China
The Geographical Society of China

In collaboration with:

IGU Commission on Agricultural Geography and Land Engineering (IGU-AGLE)
IGU Commission on Geography for Future Earth: Coupled Human Earth Systems for Sustainability (IGU-GFE)
IGU Commission on Geoheritage (IGU-CoG)
IGU Commission on Hazard and Risk (IGU-Hazard)
IGU Commission on Land Degradation and Desertification (IGU-COMLAND)
IGU Commission on Land Use and Land Cover Change (IGU-LULC)
IGU Commission on Water Sustainability (IGU-Water)
IGU Modeling Geographical Systems Commission (IGU-MGSC)
IGU Young and Early Career Geographers Working Group on Geography and Sustainability (IGU YECG-GeoSus)

Supported by: The journal Geography and Sustainability (Official journal of IGU Commission on Geography for Future Earth: Coupled Human Earth Systems for Sustainability)

International Workshop on GEOGRAPHY and SUSTAINABILITY

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Background

The world is changing at an accelerating pace because of the increased human pressure on the earth's resources and the consequent climate crises. The 2019 IPBES report indicated that 14 of the 18 categories of nature's contributions to people had declined globally since 1970. The 2021 UN report on Sustainable Development Goals (SDGs) noted that the world had deviated its track to achieve the 17 SDGs in 2030, and the COVID-19 pandemic further magnified the challenge. The significant challenges of sustainable development highlight an urgent need to understand the mechanisms linking the human and nature systems systematically. Geography is a transdisciplinary discipline studying the coupled human and nature systems and their interactions. The integrative characteristics of geography and its sub- disciplines cover both human and nature dimensions and provide important theories, methodologies, models, data that can better fit sustainability science's research needs and address real-world sustainability issues.

Goal and Objectives

This workshop brings together researchers around the world, in collaboration with IGU commissions, to identify common challenges and discuss solutions to promote sustainable development through an integrated geographic perspective.

The workshop will present the latest research progress on geography and sustainability and is expected to provide a valuable contribution to transforming our world for sustainable development.

Specific objectives are: to identify critical research areas on geography and sustainability; and present the geographical case studies on transforming our world for sustainable development.

Contact Us

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Agenda

November 23	Opening Ceremony and Keynote Speech Session I	Time: 14:10-16:00	Zoom Meeting ID: 984 175 40218	Passcode: 743919
	Panel Session	<i>Geographic modeling and big data for Sustainable development</i>		
		Time: 16:00-18:00	Zoom Meeting ID: 839 836 34804	Passcode: 728442
	Panel Session	<i>Disaster risk reduction for sustainable development</i>		
		Time: 16:00-18:15	Zoom Meeting ID: 836 367 10149	Passcode: 657438
	Panel Session	<i>Urban and sustainable development</i>		
		Time: 16:00-19:00	Zoom Meeting ID: 817 791 00437	Passcode: 808152
	Panel Session	<i>Land degradation and sustainable development</i>		
	Time: 16:30-18:00	Zoom Meeting ID: 810 908 13436	Passcode: 639000	
	Panel Session	<i>Scientific session on geography and sustainability for young and early-career researchers</i>		
	Time: 18:00-21:30	Zoom Meeting ID: 872 494 28201	Passcode: 647162	
	Panel Session	<i>Water resources for sustainable development</i>		
	Time: 18:30-21:00	Zoom Meeting ID: 875 117 16286	Passcode: 986562	
November 24	Keynote Speaker Session II	Time: 10:00-12:00	Zoom Meeting ID: 984 175 40218	Passcode: 743919
	Panel Session	<i>Agricultural geography and sustainable development</i>		
		Time: 13:30-16:00	Zoom Meeting ID: 890 796 84477	Passcode: 795412
	Panel Session	<i>Geography education and sustainable development</i>		
		Time: 16:00-17:00	Zoom Meeting ID: 846 163 44546	Passcode: 199978
	Panel Session	<i>Land use change and sustainable development</i>		
		Time: 16:00-19:15	Zoom Meeting ID: 832 763 09719	Passcode: 443062
	Panel Session	<i>Heritage park and sustainable development</i>		
	Time: 18:00-20:00	Zoom Meeting ID: 815 328 29838	Passcode: 608310	
	Keynote Speaker Session III and Closing Ceremony	Time: 20:00-22:20	Zoom Meeting ID: 984 175 40218	Passcode: 743919

Note: Beijing Time (GMT+8)

Opening and Closing Ceremony

Keynote Speech Sessions

Zoom Meeting ID: 984 175 40218 Passcode: 743919

If the Zoom application isn't installed, please use the link to register for receiving the Zoom information of the Keynote Speech Sessions.

(https://elsevier.zoom.us/webinar/register/WN_9fauQlliRnaaW9WSJAmWgw)

23 November, 2021

Opening ceremony and keynote speech session I

Moderator: Wenwu Zhao (Beijing Normal University, China)	
14:10-14:30	Title: Welcome remarks: Promoting Geography for Sustainability in the era of Anthropocene Speaker: Bojie Fu (Beijing Normal University, China)
14:30-15:00	Title: Geographies of Climate Change, Disasters and Sustainable Development in the Anthropocene Speaker: Michael Meadows (University of Cape Town, South Africa)
15:00-15:30	Title: Some ways in which geography can contribute to the global sustainability agenda Speaker: Mark Stafford Smith (Commonwealth Scientific and Industrial Research Organization, Australia)
15:30-16:00	Title: Agriculture land degradation and ecosystem services loss in a changing environment Speaker: Paulo Alexandre da Silva Pereira (Mykolas Romeris University)

24 November, 2021

Keynote speech session II

Moderator: Yan Li (Beijing Normal University, China)	
10:00-10:30	Title: Core questions and key approaches for the science of landscape sustainability Speaker: Jianguo Wu (Arizona State University, USA)
10:30-11:00	Title: Using geography to identify sustainable futures under global change: Insights from the past 25 years Speaker: Brett Bryan (Deakin University, Australia)
11:00-11:30	Title: Systems analysis of sustainable path in China Speaker: Yonglong Lu (Xiamen University, China)
11:30-12:00	Title: Avoiding human-induced geomorphological disasters for sustainable societies: lessons from Japan Speaker: Takashi Oguchi (The University of Tokyo, Japan)

Note: Beijing Time (GMT+8)

Keynote speech Session III and closing ceremony

Moderator: Dongying Wei (Beijing Normal University, China)	
20:00-20:30	Title: An Integrated Framework for Global Sustainable Development Speaker: Jianguo Liu(Michigan State University, USA)
20:30-21:00	Title: Five Challenges Facing Planetary Sustainability Speaker: Stanley Brunn(University of Kentucky, USA)
21:00-21:30	Title: How can the terrestrial biosphere be part of climate solutions? A wake-up call for the global climate community Speaker: Hanqin Tian(Auburn University, USA)
21:30-22:00	Title: Land-based climate change mitigation options and sustainability: potentials, challenges, and opportunities Speaker: Francesco Cherubini(Norwegian University of Science and Technology, Norway)
22:00-22:20	Best Speaker announcement for young geographers Conclusion remarks

Note: Beijing Time (GMT+8)

Brief Introduction of Keynote Speakers

(In alphabetical order)

Prof. Dr. Bojie Fu



Welcome remarks: Promoting Geography for Sustainability in the era of Anthropocene

Prof. Dr. Bojie Fu is Academician of Chinese Academy of Sciences, International honorary member of American Academy of Arts and Sciences, Fellow of the Academy of Sciences for Developing World (TWAS), Corresponding Fellow of the Royal Society Edinburgh UK, Honorary Fellow of the Royal Geographical Society, geographer, director of Academic Committee in the Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences and honor dean of Faculty of Geographical Science, Beijing Normal University. He is also Director of Division of Earth Sciences, Chinese Academy of Sciences, Vice-Chair of the International Geographical Union, Chief Supervisor of the Geographical Society of China, and Deputy Director of the National Expert Advisory Committee on Ecological Protection and Construction. He has published over 500 papers, among which over 300 were published in domestic and international prestigious scientific journals covering Science, Nature, as well as 10 books. He has won the China National Natural Sciences Award (2nd Class), the National Sciences and Technology Advanced Award (2nd Class), award for Distinguished Scientific Achievement of the Chinese Academy, Ho Leung Ho Lee Science and Technology Progress Award, Award of Distinguished Service of International Association for Landscape Ecology, Alexander Von Humboldt Medal of European Geoscience Union, and the CCTV 2019 Scientific and Technological Innovation Award.

Prof. Dr. Brett Bryan



Using geography to identify sustainable futures under global change: Insights from the past 25 years.

Prof. Dr. Brett Bryan has been analyzing human and natural systems over the past 25 years. He is a geographer by training and a spatial modeler and has spent his career integrating datasets and models to identify pathways to more sustainable futures in the Anthropocene. His talk will cover many different projects where he has used spatial relationships and interactions to identify the drivers of environmental degradation and impacts on people and where he has used the same relationships to identify pathways to more sustainable futures via targeted policy and management. He will share insights from this work and elaborate on how geographic reasoning has played an essential role in promoting sustainability given the uncertainties posed by future economic and environmental change.

Brief Introduction of Keynote Speakers

(In alphabetical order)



Prof. Dr. Francesco Cherubini

Land-based climate change mitigation options and sustainability: potentials, challenges, and opportunities

Prof. Dr. Francesco Cherubini is the Director of the Industrial Ecology Programme at NTNU. His main research interests are in the field of i) climate change impacts from anthropogenic emissions and disturbances of terrestrial ecosystems, ii) environmental sustainability analysis (e.g., LCA), iii) sustainable land management and bioresource potentials, and iv) analysis and process development of advanced biofuels and biorefinery systems. I assess interactions between terrestrial ecosystems, technologies and the environment using a variety of multidisciplinary approaches, including field studies, remotely sensed data, regional climate models, process simulation, or environmental impact models. Included by Web of Science among the world's most influential researchers of the past decade (2010-2019), demonstrated by the production of multiple highly-cited papers that rank in the top 1% by citations for field and year.



Prof. Dr. Hanqin Tian

How can the terrestrial biosphere be part of climate solutions? A wake-up call for the global climate community

Prof. Dr. Hanqin Tian is Solon & Martha Dixon Professor, Director of International Center for Climate and Global Change Research, and Leader for interdisciplinary cluster of CHES (Climate, Human and Earth System Sciences) at Auburn University. His primary research interest focuses on the predictive understanding of biosphere's roles in global biogeochemical cycles and the Earth's climate. His research has resulted in over 300 peer-reviewed journal papers including over 25 papers in *Nature/Science/PNAS* and their sister journals with a citation of 30K and H-index of 83. His pioneering work on the global carbon and nitrogen cycles and greenhouse gas emissions is at the leading edge of the field. He has served on Scientific Steering Committee of the Global Carbon Project (GCP), Co-Chair of the international consortium of GCP-INI (International Nitrogen Initiative) for global nitrous oxide assessment, the Board of Oceans, Atmosphere, and Climate, The Association of Public and Land-grant Universities. Dr. Tian is an Andrew Carnegie Fellow (Brainy Awardee) and elected Fellow of AAAS and AGU.

Brief Introduction of Keynote Speakers

(In alphabetical order)



Prof. Dr. Jianguo Liu

An Integrated Framework for Global Sustainable Development

Prof. Dr. Jianguo Liu is University Distinguished Professor at Michigan State University and serves as director of the Center for Systems Integration and Sustainability. He holds the Rachel Carson Chair in Sustainability. His work has been published in journals such as *Nature* and *Science* and has been widely covered by the international news media. In recognition of his efforts and achievements in research, teaching, and service, Liu has received many awards, such as being elected to the American Academy of Arts and Sciences, the American Philosophical Society and named a fellow of the American Association for the Advancement of Science (AAAS). He has received the World Sustainability Award from the MDPI Sustainability Foundation, the Gunnerus Award in Sustainability Science from The Royal Norwegian Society of Sciences and Letters and Norwegian University of Science and Technology, the Guggenheim Fellowship Award, the CAREER Award from the National Science Foundation, the Distinguished Landscape Ecologist Award and the Distinguished Service Award from US-IALE and the Sustainability Science Award, the Innovation in Sustainability Science Award and the Aldo Leopold Leadership Fellowship from the Ecological Society of America, as well as being named a fellow in the society.



Prof. Dr. Jianguo Wu

Core questions and key approaches for the science of landscape sustainability

Prof. Dr. Jianguo (Jingle) Wu is Dean's Distinguished Professor of Sustainability Science, School of Life Sciences & School of Sustainability, *Arizona State University*, Tempe, Arizona, USA. His current research areas include landscape ecology, urban ecology, and sustainability science. He has authored/edited 16 books and about 380 journal articles/book chapters. He is Editor-in-Chief of *Landscape Ecology* since 2005, and Editorial Board member for several international journals on ecology and interdisciplinary research. Other professional services: *Chair of Asian Ecology Section* of Ecological Society of America (1999-2000); *Program Chair* of the US Association for Landscape Ecology (US-IALE) in 2001; *Councilor-at-Large* of US-IALE (2001-2003); *Founding Director* of Sino-US Center of Conservation, Energy and Sustainability Science (2007-2012). Major awards and honors: *American Association for the Advancement of Science (AAAS) Award for International Scientific Cooperation* (2006); Elected *AAAS Fellow* (2007); *Leopold Leadership Fellow* (2009); *Distinguished Landscape Ecologist Award* from United States Association for Landscape Ecology (2010); *Outstanding Scientific Achievements Award* from International Association for Landscape Ecology (2011); *Distinguished Service Award* from the United States Association for Landscape Ecology (2012); Elected Fellow of Ecological Society of America (2019); Web of Science Highly Cited Researcher 2019 (Environment and Ecology); Web of Science Highly Cited Researchers 2020 (Cross-Field).

Brief Introduction of Keynote Speakers

(In alphabetical order)



Prof. Dr. Mark Stafford Smith

Some ways in which geography can contribute to the global sustainability agenda

Prof. Dr. Mark Stafford Smith is based in Canberra, Australia, and contributes to research on adaptation and sustainable development. He has retired from CSIRO, Australia's national research organisation, where he had been overseeing a highly interdisciplinary program of research on many aspects of adapting to climate change, as well as regularly interacting with national and international policy issues around sustainable development. He continues as a CSIRO Honorary Fellow, and in several international roles, including as a senior advisor to the chair of the Global Environment Facility's Scientific and Technical Advisory Panel in Washington. In Australia, he contributes to Future Earth Australia on sustainability issues, the Outback Alliance on policy for remote areas, the Global Drylands Ecosystem Program network, and various other chairing, editorial and writing roles. Mark has over 30 years' experience in drylands systems ecology, management and policy, including senior roles such as CEO of the Desert Knowledge Cooperative Research Centre in Alice Springs. His significant international roles include being past vice-chair of the International Geosphere-Biosphere Programme's Scientific Committee; co-chair of the 2012 Planet Under Pressure: New Knowledge Towards Solutions conference on global environmental change in the lead up to Rio+20; and Chair (2013-17) of the inaugural Science Committee for Future Earth, which helps to coordinate research towards global sustainability worldwide. He continues to publish, adding to over 200 peer-reviewed contributions to science, as well as many presentations and publications for less-specialized audiences.



Prof. Dr. Michael Meadows

Geographies of Climate Change, Disasters and Sustainable Development in the Anthropocene

Prof. Dr. Michael Meadows is Senior Research Scholar in the Department of Environmental and Geographical Science at the University of Cape Town, where he was Head of Department from 2001-2017, and is a Professor in the School of Geography and Ocean Sciences, Nanjing University, China. He holds an undergraduate degree from the University of Sussex and a PhD from the University of Cambridge, UK. Meadows has authored or co-authored more than 200 peer-reviewed research articles and edited several special editions of international journals. Major works include the co-edited *Southern African Geomorphology* (Sun, 2012) and *Geomorphology and Society* (Springer, 2016). His research interests lie in the field of physical geography and more specifically concern Quaternary environmental change and the geomorphological and biogeographical impacts of natural and anthropogenic changes. He has a particular passion for fieldwork and discovering new and interesting places. Meadows was Secretary-General and Treasurer of the International Geographical Union (IGU) from 2010-18 and was elected as IGU President for the period 2020 to 2024. He is a Fellow of the Society of South African Geographers (2000), of the Royal Geographical Society (2016), of the Royal Society of South Africa (2016), of the African Academy of Sciences (2019) and of *Academia Europaea* (the European Academy). He is a devoted running enthusiast, especially with the family's two beloved labrador retrievers, as well as enjoying regular road-cycling and mountain hiking.

Brief Introduction of Keynote Speakers

(In alphabetical order)



Prof. Dr. Paulo Alexandre da Silva Pereira

Agriculture land degradation and ecosystem services loss in a changing environment

Prof. Dr. Paulo Alexandre da Silva Pereira is the Geographer, Mykolas Romeris University and invited full professor at Beijing Normal University. He is a recognized researcher in Land Degradation, Ecosystem Services and Nature-Based Solutions. He published more than 460 publications in books, peer-reviewed articles and conferences. Paulo received several international prizes (e.g., “Doctor Europeus”, “European Geosciences Union Soil System Sciences Division Outstanding Young Scientist Award”). In 2020 was identified as one of the world most cited researchers (Clarivate Analytics Highly Cited Researcher”. In 2021 was elected as a full member of the world most prestigious scientific research honor society Sigma Xi. He serves or served as editor in several journals of global prestige. e.g., *Science of the Total Environment*; *Geography and Sustainability*; *Geoderma*; *Environmental Research*; *Current Opinion on Environmental Science and Health*, *Catena*, *Journal of Environmental Management*). Presently he is working with researchers from the entire world in topics focused on environmental management (e.g., China, Brazil, Australia, the USA, Portugal, Spain, Croatia and Italy). He is one of the Fire Effects on Soil Properties International Network (FESP-IN) coordinators and a member of the Geography for Future Earth Coupled Human-Earth Systems for Sustainability (IGU-GFE).



Prof. Dr. Stanley Brunn

Five Challenges Facing Planetary Sustainability

Prof. Dr. Stanley D. Brunn is the Professor Emeritus of Department of Geography, University of Kentucky, Lexington, KY 40506. He has traveled in more than 100 countries and taught classes in all regions including China, South Africa, Australia and more than twelve countries in Europe. His interests are broad including social, political, economic, urbanization, environmental geography and disciplinary histories. He has written many articles, chapters and books on COVID-19, religion, language, stamps, geopolitics, time/space issues, cyberspace and world cities. Current research projects are on “creative sameness in landscapes,” “exploratory journeys into time/space intersections” and the geographies of silence. He has written many articles and chapters and edited numerous books on a wide variety of topics. He also writes a weekly poem about many topics related to human welfare, environmental awareness, geopolitics and humor; these he sends to over 500 friends around the world.

Brief Introduction of Keynote Speakers

(In alphabetical order)

Prof. Dr. Takashi Oguchi



Avoiding human-induced geomorphological disasters for sustainable societies: lessons from Japan

Prof. Dr. Takashi Oguchi is a professor at the Center for Spatial Information Science, the University of Tokyo, Japan. He received his Ph.D. in Geography from the University of Tokyo, and broadened his experience at the University of Arizona, Colorado State University, and the Centre for Ecology and Hydrology (UK). He was also an adjunct faculty of the University of Memphis, USA. He has participated in research projects on fluvial/hillslope geomorphology, geomorphometry, geoarchaeology, water quality, earthquake hazards, marine geology, land use and cover analysis, spatial databases, and geographical education. He has conducted research in various foreign countries such as Bangladesh, China, Italy, Korea, Oman, the Philippines, Poland, Romania, Syria, Taiwan and the UK. He has authored and co-authored more than 140 peer-reviewed articles and 30 book chapters. He gave some 30 plenary/invited talks at international conferences on geography and geosciences. He was one of the editors-in-chief of the journal *Geomorphology* (Elsevier) from 2003 to 2019, and is/was on the editorial boards of several other international journals. He has also served as a reviewer for more than 40 ISI-listed international journals. He is currently an executive committee member of the International Association of Geomorphologists, Chair of Hazard and Risk Commission of the International Geographical Union, and Chair of the board of directors of the Association of Japanese Geographers. He was also President of the Japanese Geomorphological Union and President of the GIS Association of Japan.

Brief Introduction of Keynote Speakers

(In alphabetical order)

Prof. Dr. Yonglong Lu

Systems analysis of sustainable path in China



Prof. Dr. Yonglong Lu is a Chair Professor of Xiamen University, and Distinguished Professor of the Chinese Academy of Sciences (CAS). Dr. Lu is an elected Fellow of TWAS (The World Academy of Sciences); a member of Academia Europaea (AE); UN 10-Member Group Technology Facilitation Mechanism appointed by the UN Secretary General; past President of Scientific Committee on Problems of the Environment (SCOPE); President of Pacific Science Association (PSA); Member of International Resource Panel, United Nations Environment Program (UNEP/IRP); Science Advisor of International Union for Conservation of Nature (IUCN); former member of Committee on Scientific Planning and Review, International Council for Sciences (ICSU/CSPR); Vice President of Ecological Society of China; Chair of Committee on Ecology and Environmental Sciences, Chinese Society for Sustainable Development. He used to be Director General for CAS International Cooperation (2007-2012), and Deputy Director General for CAS Comprehensive Planning (2001-2007). He was an international review panelist for both Future Earth and UN Sustainable Development Goals (SDGs)

As an active sustainability and environmental ecologist, he has published 360 papers in peer reviewed journals such as *Science*, *Nature*, *Science Advances*, *PNAS*, *Nature Comm.*, and authored or co-authored 17 books. He is the founding Editor-in-Chief of *Ecosystem Health and Sustainability* jointly appointed by the Ecological Societies of America and China, an Associate Editor of *Science Advances*, the founder and Associate Editor of *Environmental Development*, Associate Editor of *Acta Ecologica Sinica*, and other peer-reviewed journals. He has obtained various awards and honors from the State Council of China, Chinese Academy of Sciences and other national or international organizations, including the 2nd Prize of National Award for Advancement of Science and Technology, 1st Prize in Science and Technology for Promoting Development by the Chinese Academy of Sciences, 2nd Prize and 3rd Prize for Advancement of Science and Technology by the Chinese Academy of Sciences, National Outstanding Young and Middle-aged Scientist, Green Design International Contribution Award, SCOPE Distinguished Achievement Award, and Scientific Chinese 2019 Outstanding Contribution Award.

23-24 November**Panel Sessions**

No.	Panel Sessions	Chair	Zoom
November 23			
A	Geographic modeling and big data for Sustainable development Time: 16:00-18:00	Chair: Chen Min (Chair of IGU Modeling Geographical Systems Commission; Nanjing Normal University, China)	Meeting ID: 839 836 34804 Passcode: 728442
B	Disaster risk reduction for sustainable development Time: 16:00-18:15	Chair: Takashi Oguchi (Chair of IGU Commission on Hazard and Risk; The University of Tokyo, Japan)	Meeting ID: 836 367 10149 Passcode: 657438
C	Urban and sustainable development Time: 16:00-19:00	Chair: Monica Dumitrașcu (Chair of IGU Commission on Land Use and Land Cover Change; Institute of Geography, Romanian Academy, Romania)	Meeting ID: 817 791 00437 Passcode: 808152
D	Land degradation and sustainable development Time: 16:30-18:00	Chair: Matija Zorn (Chair of IGU Commission on Land Degradation and Desertification; Research Centre of the Slovenian Academy of Sciences and Arts, Slovenia)	Meeting ID: 810 908 13436 Passcode: 639000
E	Scientific session on geography and sustainability for young and early-career researchers Time: 18:00-21:30	Chairs: Gabriela Morosanu & Xutong Wu (Chair of IGU Young and Early Career Geographers Working Group on Geography and Sustainability; Institute of Geography, Romanian Academy, Romania) (Co-Chair of IGU Young and Early Career Geographers Working Group on Geography and Sustainability; Faculty of Geographical Science, Beijing Normal University, China)	Meeting ID: 872 494 28201 Passcode: 647162
F	Water resources for sustainable development Time: 18:30-21:00	Chair: Frank Winde (Chair of IGU Commission on Water Sustainability; North-West University, South Africa)	Meeting ID: 875 117 16286 Passcode: 986562

Note: Beijing Time (GMT+8)

November 24			
G	Agricultural geography and sustainable development Time: 13:30-16:00	Chair: Yuheng Li (Secretary General of IGU Commission on Agricultural Geography and Land Engineering; Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences)	Meeting ID: 890 796 84477 Passcode: 795412
H	Geography education and sustainable development Time: 16:00-17:00	Chair: Paulo Pereira (Mykolas Romeris University)	Meeting ID: 846 163 44546 Passcode: 199978
I	Land use change and sustainable development Time: 16:00-19:15	Chair: Monica Dumitraşcu (Chair of IGU Commission on Land Use and Land Cover Change; Institute of Geography, Romanian Academy, Romania)	Meeting ID: 832 763 09719 Passcode: 443062
J	Heritage park and sustainable development Time: 18:00-20:00	Chair: Dongying Wei (Chair of IGU Commission on Geoheritage; Faculty of Geographical Science, Beijing Normal University, China)	Meeting ID: 815 328 29838 Passcode: 608310

Note: Beijing Time (GMT+8)

November 23 (16:00-18:00)

Panel Session A: Geographic modeling and big data for Sustainable development

Chair: Chen Min (Chair of IGU Modeling Geographical Systems Commission; Nanjing Normal University, China)

No.	Title	Name
1	Assessment of soil erosion and prioritization of ravine infested sub-basins of Kunwari River, Madhya Pradesh, India	Rudraksh Mohapatra
2	Climate change or human activities dominate farmland loss in divergent ecogeographical regions on the Tibetan Plateau	Tianyuan Zhang
3	Evolution and effects of the social-ecological system over 600 years in China's Guizhou Province	Teng hao
4	Geo-Spatial Big Data in Global Environmental Change, Disasters and Sustainability Science	Swarnima Singh
5	The optimization model of the distribution of incremental values of collective-owned operating construction land based on the ownership of land development rights and the farmers' loss of societal security functions in China: A case study of Wujin District, Jiangsu Province	Jinlong Duan
6	Geographic intelligence modeling under different SDG scenarios	Cao Min
7	Spatiotemporal variations of sensible and latent heat fluxes partitioning in different vegetation types based on 203 FLUXNET sites	Huiqing Lin

Note: Beijing Time (GMT+8)

November 23 (16:00-18:15)

Panel Session B: Disaster risk reduction for sustainable development

Chair: Chair: Takashi Oguchi (Chair of IGU Commission on Hazard and Risk; The University of Tokyo, Japan)

No.	Title	Name
1	Disaster Risk Reduction in the Context of a Dysfunctional Local Government System: The Case of Nigeria	Femi Abiodun Olaniyan
2	Measuring Vulnerability Quantitatively for Flood Hazard to Reduce Human and Economic Loss due to Flood Disaster	Md. Enamul Huq
3	A landslide early forecasting system in South Asia (India): the LANDSLIP project.	Alessandro Mondini
4	Effectiveness of Web GIS applications in educating disaster risk reduction: comparison of online and on-site implementations	Jiali Song
5	Investigating the capacity of green infrastructure in mitigating urban waterlogging: Evidence from Metropolitan Coastal Cities	Qifei Zhang
6	Mapping supply-demand relationship changes of flood regulation service in rapid urbanization basin——A case study in Baiyangdian Basin, China	Jian Li
7	Analysis of supply and demand balance and driving factors of soil conservation service on the Loess Plateau based on GWR model	Zixu Jia
8	Implementation of nature-based solutions for flood management on private land	Katazyna Bogdzevic
9	Spatio-temporal variation characteristics of soil organic carbon in the vegetation restoration area on the Loess Plateau	Jiahao Ma

Note: Beijing Time (GMT+8)

November 23 (16:00-19:00)

Panel Session C: Urban and sustainable development

Chair: Chair: Monica Dumitraşcu (Chair of IGU Commission on Land Use and Land Cover Change; Institute of Geography, Romanian Academy, Romania)

No.	Title	Name
1	Analysis on temporal and spatial changes of ecological footprint of net primary productivity of urban agglomeration in Pearl River Delta	Mengna Zhang
2	How did COVID19 lockdown impact the urban ecosystem? - Empirical evidence from an Indian megacity.	Manob Das
3	Landuse-Landcover Dynamics and Urban Sustainability: A Case Study of Kolkata Metropolitan Area, India	Jaydip De
4	Spatial Disparity and Influencing Factors of Coupling Coordination Development of Economy–Environment–Tourism–Traffic: A Case Study in the Middle Reaches of Yangtze River Urban Agglomerations	Qian Chen
5	Study on the Supply and Demand Pattern of Ecosystem Services and Its Influencing Factors in Chengdu-Chongqing Urban gglomeration	Ting Luo
6	Differences in the impact of urban expansion on ecosystem services value in different urban agglomerations in China	Guanzheng Wang
7	The impact of urban expansion on the supply-demand relationship of ecosystem services ——Based on the empirical evidence of prefecture-level cities in China	Xinyu Cui
8	RS-GIS Based Urban Livability Assessment and Prediction of Future Urban Expansion in Raiganj City, India	Tirthankar Basu
9	Exploring the influence of urban morphology on urban land use efficiency under low-carbon emission constraints: A case study in China's Yellow River Basin, 1994–2018	Hui Wu
10	Spatio-temporal patterns of urban scaling exponents and influence from administrative scale in China	Yuxue Feng

Note: Beijing Time (GMT+8)

November 23 (16:30-18:00)

Panel Session D: Land degradation and sustainable development

Chair: Matija Zorn (Chair of IGU Commission on Land Degradation and Desertification;
Research Centre of the Slovenian Academy of Sciences and Arts, Slovenia)

No.	Title	Name
1	Nexus between Gold Mining Activities and Environmental Sustainability in Kintinian, Prefecture of Siguiri, Republic of Guinea	TRAORE Mohamed Lamine
2	Landforms Sustainability and Conservation: Examples from the Largest Badlands Region of India	Pani Padmini
3	Estimation of Forests Degradation in the Tiger Corridor of Rajasthan, India: In The Context of Land Use Change and Sustainability Issues	Bhanwar Vishvendra Raj Singh
4	Key areas of ecological restoration in Inner Mongolia based on climate vulnerability and ecosystem service time series analysis	Siyuan Feng
5	Agricultural intensification vs climate change: What drives long-term changes of sediment load?	Shengping Wang

Note: Beijing Time (GMT+8)

November 23 (18:00-21:30)

Panel Session E: Scientific session on geography and sustainability for young and early-career researchers

Chairs: Gabriela Morosanu & Xutong Wu

(Chair of IGU Young and Early Career Geographers Working Group on Geography and Sustainability; Institute of Geography, Romanian Academy, Romania)

(Co-Chair of IGU Young and Early Career Geographers Working Group on Geography and Sustainability; Faculty of Geographical Science, Beijing Normal University, China)

No.	Title	Name
1	Increasing trends in rainfall erosivity in the Yellow River basin from 1971-2016	Wenting Wang
2	Stochastic simulation of non-stationary daily maximum and minimum temperature using multisite weather generators	Conghui Fan
3	A high-resolution remote sensing workflow for water ponding mapping in lowland agriculture	Eugenio Straffelini
4	Investigating the interaction between roads and shallow landslides for sustainable management of mountain landscapes	Luca Mauri
5	Land Use Changes in the Ecologically Fragile Areas of the Yellow River Basin and their Impact on Poverty since 1980s: a Case Study of Inner Mongolia	Zhen Wu
6	Spatio-temporal Pattern and Driving Mechanism of Rural Settlements in Tianjin Metropolitan Area, China	Yang Lan
7	The relationship between (rapid) riverbed degradation and local-scale sand and gravel mining - a case study on Gilort River, Romania	Gabriela Morosanu
8	Unveiling China-Pakistan Solar Park Model towards Low-carbon Transition	Han Mengyao
9	Spatial Planning of the Protected Area as a Key Research Area on Promoting Geography for Sustainability	Alona Varukha
10	Global COVID-19 pandemic trends and their relationship with meteorological variables, air pollutants and socioeconomic aspects	Yi Han
11	Lower resistance but higher resilience of vegetation in cold steppe and humid temperate ecoregions to drought	Md Hossain
12	Geography for Sustainability: Where do we stand?	Sujayita Bhattacharjee
13	Study on interaction mechanism between urban expansion and ecological ecological resilience in Wuhan	Di Wu

Note: Beijing Time (GMT+8)

November 23 (18:30-21:00)

Panel Session F: Water resources for sustainable development

Chair: Frank Winde (Chair of IGU Commission on Water Sustainability; North-West University, South Africa)

No.	Title	Name
1	Linkage analysis for Water-land nexus driven by interregional trade	Delin Fang
2	Long term wetland extraction and change analysis in Yellow River Basin based on Google Earth Engine	Yangchengsi Zhang
3	Mapping of China's industrial water withdrawal at high spatial and temporal resolutions	Chengcheng Hou
4	Effects of environments on sediment yields in the Yellow River Basin, China	Ruiqi Zhang
5	Towards the quantification of marine ecosystem services: a case study of Lithuania	Miguel Inácio
6	Mapping debris-covered glaciers and active rock glaciers in the Vanj River basin of Tajikistan using SAR and optical satellite images	MA Qiqi
7	Measuring and Predicting Spatiotemporal Dynamics of Channel Morphology in the Kelani River, Sri Lanka.	V.P.I.S. Wijeratne
8	Telecoupled virtual water flow of winter wheat from overexploited aquifers in the North China Plain	Ming Lei
9	Multi-scenario integrated comparison of hydrological and climatic models in the Three-river Headwaters region	Jitao Zhou

Note: Beijing Time (GMT+8)

November 24 (13:30-15:45)

Panel Session G: Agricultural geography and sustainable development

Chair: Yuheng Li (Secretary General of IGU Commission on Agricultural Geography and Land Engineering; Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences)

Invited Guest: Bin Wu (Nottingham University Business School)

No.	Title	Name
1	TBD	Yuheng Li
2	Conservation of springs and lakes through Traditional Ecological Knowledge. A case study of Shertukpen tribe of West Kameng district, Arunachal Pradesh, North East India.	Norbu Jamchu Thongdok
3	Analysis of changes in maize planting distribution and meteorological influences in Heilongjiang Province based on GEE platform	Rui Guo
4	Assessing the impacts of exploratory land-use scenarios on cropland supply in a case study in Lithuania	Eduardo Gomes
5	Simulating the dynamics of the single and dual maize crop coefficients and implications for irrigation strategy	Pei Wang, Haitao Sun
6	Geo-spatial labeling of the Indian lac-plant hosts in the tribal-dominated areas of the district Anuppur, Madhya Pradesh	Praveen Shyam
7	Land Consolidation for Eco-environmental Sustainability in China's Loess Plateau: The study of Baota District, Shaanxi Province	Bai Yu
8	Cultivation Potential and Sustainability Evaluation of <i>Cyperus esculentus</i> L. on Marginal Land in Windy and Sandy Areas of Northern China	Xintong Zhang
9	Resilience and Efficiency of Agricultural Water Resources System in Cities of the Yellow River Basin, China	Chengpeng Lu

Note: Beijing Time (GMT+8)

November 24 (16:00-17:00)

Panel Session H: Geography education and sustainable development

Chair: Paulo Pereira (Mykolas Romeris University)

No.	Title	Name
1	Importance of high education on sustainability establishment	Paulo Pereira
2	A Comparative Study of the Difficulty in High School Geography Textbooks in Ten Countries.	Dongying Wei
3	Educational Space and Sustainable Development: A Geographical Perspective	Renu Sharma
4	Environmental education, a key for sustainable evolution - Proposal for a field itinerary in Romanian Carpathian Mountains	Theodora Dragan

Note: Beijing Time (GMT+8)

November 24 (16:00-19:15)

Panel Session I: Land use change and sustainable development

Chair: Monica Dumitraşcu (Chair of IGU Commission on Land Use and Land Cover Change; Institute of Geography, Romanian Academy, Romania)

No.	Title	Name
1	Land spatial heterogeneity and ecosystem service tradeoffs	Erfu Dai
2	Exploring the spatial pattern and transition rule of land use conversion: a case study in Wuhan, China	Linbing Zhuang
3	Rubber plantation and Farmers' Responses to Recession of Rubber Latex Price in Thua Thien Hue province, Vietnam	Le Minh Duc
4	The transformation of natural landscape in transition: forest degradation, deforestation, and reforestation in post-socialist Albania	Dritan Rustja
5	Impacts of land use change on ecosystem services value in the South-to-North Water Diversion Project	Gejing Zhu
6	Expansion of the impervious surface and its ecological effect in the Yellow River Basin using Landsat data (1986 -2020)	Jing Zhang
7	Spatiotemporal changes of vegetation and its driving forces in China during 1982—2015	You Tu
8	Spatial correlations among cultivated land intensive use and carbon emission efficiency: A case study in the Yellow River Basin, China	Xiao Zhou
9	Response of riparian vegetation dynamics to human disturbances and climate change in Old Oyo National Park, Southwest Nigeria	Oluwatobi Olaniyi
10	Spatial distributions of soil nutrients affected by land use, topography and their interactions in the Loess Plateau of China	Wenxin Zhou

Note: Beijing Time (GMT+8)

November 24 (18:00-20:00)

Panel Session J: Heritage park and sustainable development

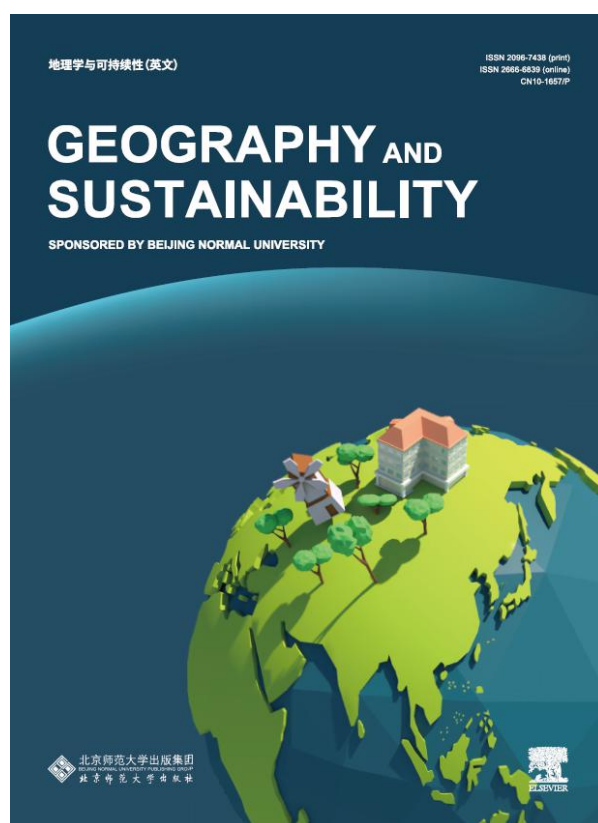
Chair: Dongying Wei (Chair of IGU Commission on Geoheritage; Faculty of Geographical Science, Beijing Normal University, China)

No.	Title	Name
1	Analysis of the resources value of Three-River-Source National Park based on ecological civilization	Dongying Wei
2	Comprehensive Evaluation and Trend Prediction of Tourism Ecological Security in Huanggang Dabieshan UNESCO Global Geopark	Mengting Chen
3	Local benefits from tourism development in phong nha - kebang national park, Vietnam	MAI Thi Khanh Van
4	Evaluating cultural ecosystem services supply and demand in the Tibetan Plateau	Jinxi Zhang
5	Landscape aesthetic quality mapping and assessment. The Lithuanian case study.	Marius Kalinauskas
6	Can nature reserves protect ecosystem services?—Effectiveness assessment of national nature reserves in China	Huang Cheng
7	Ecotourism Activity Assessment Model-basing on ecotourism impacts and visitors experience	Xi Wu

Note: Beijing Time (GMT+8)

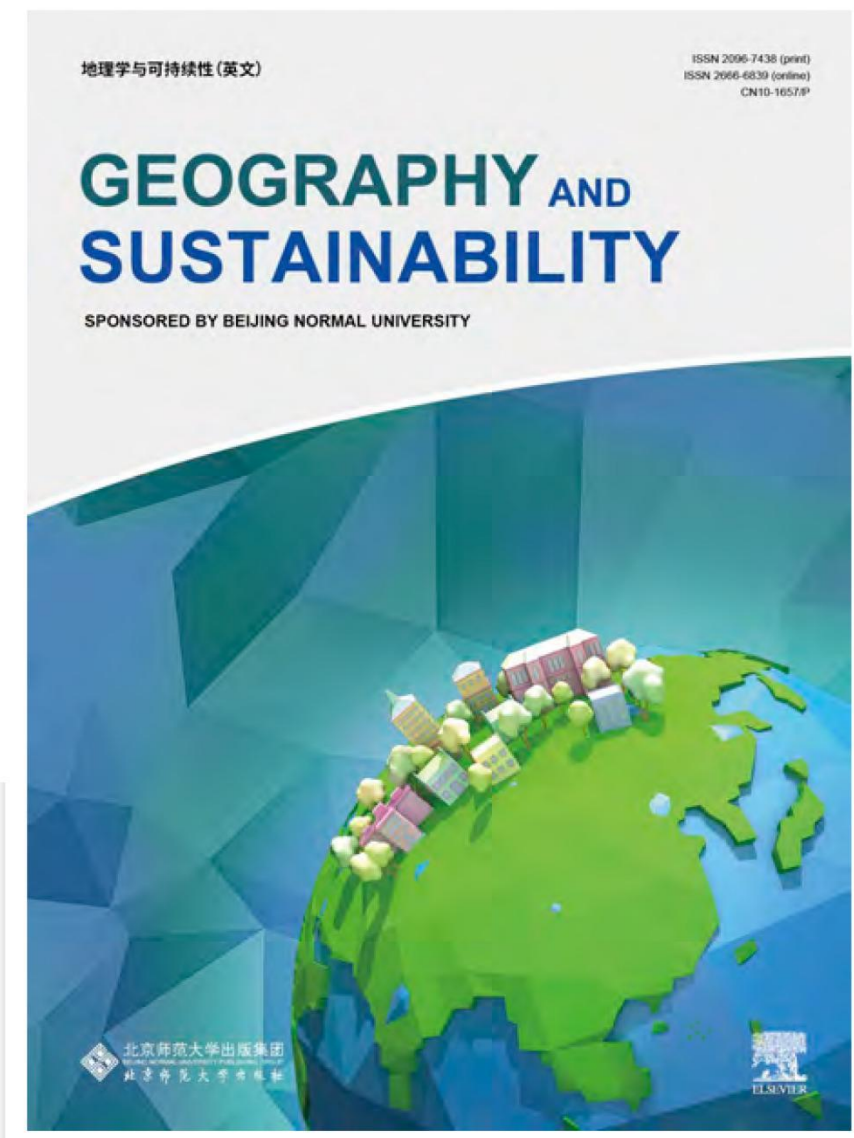
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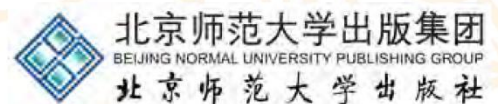
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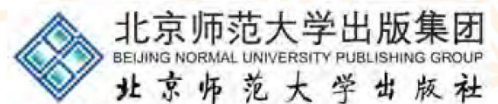
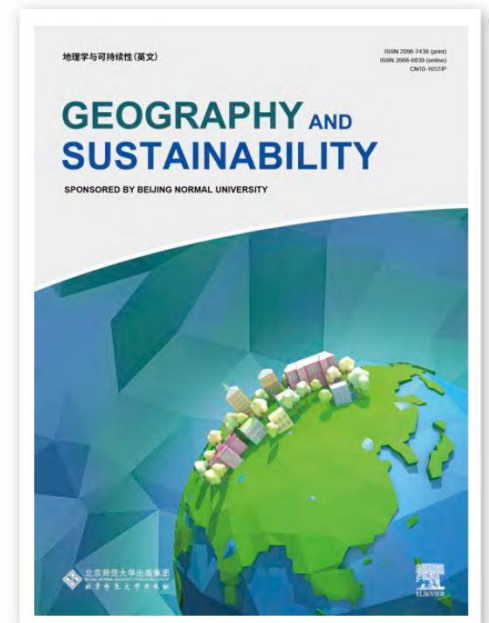
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