



## 第三届可持续发展大数据国际论坛

The 3rd International Forum on Big Data for Sustainable Development Goals

2023年9月6日-8日 中国 北京

### **Session title: Spatiotemporal Intelligence and Remote Sensing of the Environment Towards Sustainable Development Goals**

**Session Organizer: Peking University**

#### **Short Description**

Achieving sustainable development goals (SDGs) on adapting to and mitigating climate change, urban sustainable development, water resources safety, biodiversity, etc. all requires powerful tools in RS/GIS/GNSS and spatiotemporal intelligence for a comprehensive assessment of these goals. This session invites contributions from the above topics to address SDG 6, 11, 13, and will facilitate discussions and frontiers on these topics.

#### **Objectives**

This session brings together expertise in remote sensing, GIS, GNSS, and other digital techniques, and their in-depth applications in monitoring climate change, urban informatics, biodiversity, water resources management, and land use land cover changes.

#### **Expected Results**

Audience of 50; promoting discussions and frontiers on digital techniques empowering SDGs.



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## Agenda

Time 10:30 – 12:00, September 7th 2023 Room: 305 E

### Moderators:

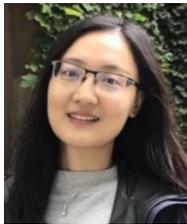


**DONG Lei**

**Assistant Professor**

**Peking University**

Dr. DONG Lei is an Assistant Professor at the School of Earth and Space Sciences, Peking University, focusing on urban science and complex systems. He develops empirical and theoretical methods in urban systems, especially on human mobility, scaling laws, and geospatial big data. His research has been published in prestigious journals such as Nature, Nature Communications, and PNAS, and featured in major media outlets.



**LIN Peirong**

**Assistant Professor**

**Peking University**

Dr. LIN Peirong is an Assistant Professor at the School of Earth and Space Sciences, Peking University. Her research focuses on leveraging geospatial big data, remote sensing, and hydroclimate models to understand the fundamentals of the river-climate and river-human relationships. She receives the CBAS Young Scientist Award, and her research has been published in Nature Sustainability, Remote Sensing of Environment, Geophysical Research Letters, Water Resources Research, etc.

### Participants

**Event 1 (10:50 am – 11:10 am, 20 minutes)**

**Spatiotemporally refined understanding of global supply chains in a green transition**



**LIU Gang**



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### Professor

#### University of Southern Denmark

Dr. LIU Gang is currently working as Associate Professor at University of Southern Denmark, Denmark. He has completed his Ph.D. in Environmental Science from Norwegian University of Science and Technology, Norway. His main area of interest focuses on Environmental Sciences. His area of expertise includes Environmental System Analysis, Material Flow Analysis, Industrial Ecology, Urban Metabolism, and Resources Management. He has published 20 research articles in journals contributed as author/co-author. Gang Liu from SDU Life Cycle Engineering has received 'The Laudise Young Researcher Prize'. Gang Liu has been awarded this Robert A. Laudise medal in recognition of his outstanding contributions to the field of industrial ecology.

### Event 2 (11:10 am – 11:30 am, 20 minutes)

#### Digital Arctic Environment (to revise)



### QIU Yubao

#### Professor

#### International Research Center of Big Data for Sustainable Development Goals

Dr. QIU Yubao, Research Professor at the International Research Center of Big Data for Sustainable Development Goals (CBAS), and the Aerospace Information Research Institute Chinese Academy of Sciences (AIR-CAS). His research interest are remote sensing of snow and ice, Arctic environment research, digital environment, and data science; He won the first "ScienceDB Scientific Data Award", He is currently the co-lead (PoC) of the Group on Earth Observations Cold Regions Initiative (GEOCRI) and co-chair to the High Mountain and Cold Regions (HiMAC WG) Working Group of the "Digital Belt and Road" Program.

### Event 3 (11:30 am – 11:50 am, 20 minutes)

#### Energy-Environment nexus from the coupled human-natural system perspective



### QIN Yue

#### Associate Professor (tenure-track)

#### Peking University



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Dr. QIN Yue is currently a tenure-track associate professor at the College of Environmental Science and Engineering at Peking University. Before that, she worked as a tenure-track assistant professor at the Department of Geography and Sustainability Institute at the Ohio State University. She holds a Ph.D. degree in Science, Technology, and Environmental Policy (STEP Program) from Princeton University. Her research focuses on the modeling the coupled human system and the natural environment on characterizing 1) the multi-aspect impacts of human activities on the natural environment, and 2) unraveling the feedbacks of the natural system on human society (e.g., food, energy, and water system vulnerability under climate change and carbon neutrality).

**Event 4 (11:50 am – 12:10 am, 20 minutes)**

**Can the photovoltaic potential of urban roads meet energy consumption for inner-city traffic?**



**FEI Teng**

**Associate Professor**

**Wuhan University**

Dr. FEI Teng, Associate Professor of the School of Resource and Environmental Sciences, Wuhan University. He obtained his Ph.D from University of Twente, the Netherlands, and has published more than 100 academic papers in the journals of geographic information science (GIS), urban sciences, and remote sensing technology. His main research interests include spatial big data analysis and representation, remote sensing application on urban ecology, health geography, and social geocomputing