



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: NexTus Youth Innovation: Deploy Satellite and AI to Connect and Generate Future Cities

Session Organizer: CBAS and Institute of New Economic Development (INED)

Short Description

In 2023, AIGC once again set off a wave of global digital technology innovation; LLMs and various kinds of vertical models continue to emerge, which significantly improves productivity. Meanwhile, new digital infrastructures such as satellite internet, are making the world more connected and expand the scale of digitalization ranging from individuals, industries, and cities to earth planet, where SDGs provide broad application prospect. Combining released productivity and application scenarios, new products and models are springing up and in urgent need to be verified and deployed. This session will focus on the Youth-Led SDGs innovations deploying digital technologies, especially satellite and AI. Representative young scholars and entrepreneurs would be invited to share their thinking, experiments and practices. The primary goal is to connect, present, and empower young innovators by building the bridge between academia and industries as well as promoting SDGs via sci-tech innovations and cross-disciplines cooperation.

Objectives

This session mainly includes three objectives: (1) share youth-led experiences and best practices deploying satellite, AI and other digital technologies to promote SDGs; (2) discuss future trends, opportunities and risks of the emerging technologies and their impact on the sustainable agenda; (3) call for actions from public and private sectors to encourage and support youth-led innovations.

Expected Results

Through this cross-field sharing and dialogue, we aim to:

1. Reaching out SDGs young innovators' community and make youth-led innovations to be seen;
2. Discovering and documenting SDGs experiments and best practices by sending out an invitation to young innovators and following activities;
3. Discuss the difficulties facing youth innovation and call for academia and industries to empower young innovators.



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Agenda

Time 15:15-16:45, September 7th, 2023 Room: 305 D

Moderators:



SUN Zhongchang

Division Head, Cooperation and Development Office,

International Research Center of Big Data for Sustainable Development Goals (CBAS)

Dr. SUN Zhongchang is a professor at Aerospace Information Research Institute (AIR), Chinese Academy of Sciences (CAS). He also serves as deputy director of the Key Laboratory of Digital Earth Science, CAS, as well as head of the Cooperation & Development Office at the International Research Center of Big Data for Sustainable Development Goals (CBAS). He received his Ph.D. from the Center for Earth Observation and Digital Earth (CEODE), CAS in 2011. From 2016-2017, he visited the Department of Geography at the University of South Carolina as a CSC (China Scholarship Council) scholar. He had been a visiting researcher at the German Aerospace Center (DLR) in 2013 supported by the DAAD scholarship. He was honored as Nanhai Young Talent in 2020 and CAS Distinguished Core Researcher in 2022. Recently, his research interests include urban remote sensing and urban sustainability. He has published more than 80 papers in different academic journals, including more than 40 SCI papers, as well as 6 books as an associate editor. He also presided over more than 10 projects funded by agencies including the National Natural Science Foundation of China, the National Key R&D Program, and the Strategic Priority Research Program of the Chinese Academy of Sciences.



ZHAO Mingxiao

Vice Dean

Institute of New Economic Development, Chengdu

ZHAO Mingxiao is the vice dean of Institute of New Economic Development, based in Chengdu. She ranks among 2020 Forbes China 30 Under 30 listees and gets the May 4TH Youth Award by Chengdu Municipal Government. She is the co-initiator and editor of the UNHABITAT "Future Cities and the New Economy" publication series. She used to work for top international consulting agencies and has rich experiences in industrial transformation and urban consulting, including industrial planning, digital transformation, and policy suggestions. She is the cofounder of iNED. Now, she is committed to help local governments



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to adapt to the digital trend, upgrade business environment, build city brand and foster new growth drivers. She is actively engaged in researches and activities to encourage innovations for sustainable development agenda and worked with UN agencies, such as UNIDO, UN Habitat, UNDP and UN WOMEN.

Event 1 (15:15-15:20) Opening Address

AI for Sustainable Development (via video)



Marco Kamiya

Chief

Division of Digital Transformation and Artificial Intelligence Strategies, UNIDO

Dr. Marco Kamiya is Chief of the Division of Digital Transformation and Artificial Intelligence Strategies at UNIDO, the United Nations Industrial Development Organization. The Division works on frontier technologies, innovation ecosystems, and digital transformation, including intangibles and branding as major components. Marco Kamiya was the Chief of the Urban Economy and Finance Branch at UN-HABITAT in Kenya. Previously a senior officer at CAF Development Bank for Latin America in Caracas, the Inter-American Development Bank in Washington DC. Earlier, as senior economist of PADECO Co., Ltd., in Tokyo, implemented projects globally funded by JICA and JBIC, and briefly was with the World Bank at the Private Sector Development Department as an exchange professional.

Event 2 (15:20-15:35) New economy and future cities publication recommendation and youth special edition call for papers

The “New Economy and Future Cities” publication series joint-initiated by iNED and UN Habitat deliver an interdisciplinary approach from professionals and scholars working in government, the United Nations, academia, scientific research, and private sector. The purpose of the publications is (1) to raise awareness on new technological innovations and how these changes affect urban infrastructure and the quality of living of urban dwellers; (2) to enhance collective knowledge on different user cases of new technologies in cities and the potential benefits and risks; and (3) to call for collaboration and collective actions from all cities to smartly use and govern new tech solutions for a safer, more inclusive, and more prosperous urban environment. We would invite the editors’ team, CBAS, and potential partners of the Youth Special Edition to share the experiences and launch the 3rd publication invitation.

Potential Partner Sharing

Embracing digitalization in urban life: challenges and adaptations



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CHEN Tianhao

Associate professor

School of Public Policy & Management, Tsinghua University

Dr. CHEN Tianhao is an associate professor of School of Public & Management, Tsinghua University, China. He is also an associate professor of School of Law, Tsinghua University, Zhongying Youth Scholar of Tsinghua University, the Fourth "Legal Research Scholars" of the Supreme People's Court. Dr. Chen received a Ph.D of public law in the university of Bordeaux, France. His research interests include administrative law, French and European Union law, administrative agreement law, social science law and data law. Dr. Chen has published articles in authoritative Chinese and foreign journals, including Chinese Journal of Law, China Legal Science, Law Science, Revue française de droit administratif and so forth. Dr. Chen offers the course 'Digital Governance: Law, Policy, and Practice' at Tsinghua University. In terms of social engagements, Dr.Chen is a council member in China Law Society Cyber and Information Law Society, and a committee member within the Central Committee of the Rule of Law of the China Zhi Gong Party. He actively participates in legislative endeavors with various ministry agencies such as the Ministry of Justice, Ministry of Science and Technology, and the Cyberspace Administration of China."

Event 3 (15:35-15:50) Keynote Speech

Ubiquitous computing in Urban Development



WANG Leye

Assistant Professor

School of Computer Science, Peking University

Dr. WANG Leye is an assistant professor at Key Lab of High Confidence Software Technologies, School of Computer Science, Peking University, China. His research interests include ubiquitous computing, mobile crowdsensing, and urban computing. Wang received a Ph.D. in computer science from the Institut Telecom SudParis and University Paris 6, France, in 2016, and was a postdoc researcher with Hong Kong University of Science and Technology. He has published 80+ papers and received 5500+ citations according to Google Scholar. her mainstream journals at home and abroad.



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Event 4 (15:50-16:05) Keynote Speech

Climate change's impact on human health and well-being



ZHANG Chi

Professor, School of Management and Economics, Beijing Institute of Technology

Deputy Director, the Lancet Countdown Asia Center

Dr. ZHANG Chi is a professor of School of Management and Economics, Beijing Institute of Technology. She is also the deputy director of the Lancet Countdown Asia Center. She was enrolled in the 2019 Overseas High-level Talent Introduction Program Youth Program. Her research interests include climate change and health economy, energy and environmental economy and management, sustainable development and global governance, and digital economy.

Event 5 (16:05-16:20) Keynote Speech

Digital twin cities and smart transportation innovative public-private partnership



ZENG Hui

Former Vice Curator of Global Shapers Community under World Economic Forum

ZENG Hui is the director of policy and strategy research for autonomous driving at Meituan. He was selected by Global Shapers Community under World Economic Forum and obtained Tsinghua MPA-CityU EMBA dual degree. He successively served as a senior expert in Strategic Investment at Meituan, a senior researcher of the AI Department at Webank, Director of Technology Development at CAUPD-Alibaba UrbanX Lab, involved in AI CITY solutions and digital platform development for Shanghai, Sanya, Chongqing, Chengdu, and Hangzhou. He was also awarded the Excellent Scholar of Vigorous Water Program by Alibaba Research Institute, joined the Alibaba CIO College, and acted as the research head and chief editor of the Future Cities and New Economy research project for UN-Habitat. He has participated in AI-ESG platform design and AI city solutions and digital platforms in Shanghai, Sanya, Chongqing, Chengdu, Hangzhou, etc. Before that, he worked for the Cisco Strategic Consulting Department, UNDP, and Tsinghua University Institute of Financial Engineering and contributed to China Development Bank's "Green Smart Town Development Guidelines and Cases", and exchanged in Stanford and LSE.



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Event 6 (16:20-16:35) Keynote Speech

AIGC for cultural heritage



HUO Ran

Senior Engineer

Tencent

HUO Ran is a senior engineer of Tencent Group. She is former Wechat data analyst and Tencent Academy lecturer. She served as a reviewer of the International Information and Knowledge Management Conference (CIKM) for two consecutive years, and published a technical patent. She graduated from the University of Hong Kong and has worked in international sustainable development organizations. She is engaged in AIGC research and practices nowadays and published the book "How to Become a super Individual in the Era of Large Models".

Event 7 (16:35-16:45) Panel Discussion and Call for Actions



WANG Meng

Executive Secretary, the World Young Scientists Summit, President, the World Union of Young Earth Scientists, Senior engineer

Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences

Dr. WANG Meng studies tectonic structure and paleoclimate at the Chinese Academy of Sciences. He has participated in several international scientific research and collaborative projects and has extensive experience in the field of international cooperation and innovation. Since the first World Young Scientists Summit, he has served as the executive Secretary, leading the establishment of the World Young Scientists π community, guiding the young generation of scientists to engage in dialogue with senior scientists, entrepreneurs, and innovators, and exchanging results, and actively promoting the incubation of talent innovation at home and abroad and the implementation and transformation of international scientific and technological achievements.