



# INTRODUCTION

On the 10th anniversary of the Belt and Road Initiative, the Chinese Association for Artificial Intelligence and IEEE China Council are to launch the 2024 IEEE Belt and Road Congress on AI for Sustainable Development, aiming at creating an international exchange and cooperation platform, implementing the eight actions of high-quality co-construction of the Belt and Road, and promoting scientific and technological innovation, accelerating intelligent transformation, and guarding intelligent security with a global co-creation model of openness, inclusiveness, connectivity, and common development in order to gather advanced achievements and broad consensus, and spread outstanding wisdom and mature experience to achieve modernization development of countries around the world.

This congress is going to be held on June 22-23, 2024 in Hangzhou, China. Government officials, heads of scientific research institutes and enterprises, and guests from social organizations in the relevant countries of the the Belt and Road will be invited to participate, establishing a cooperation network around the framework of data intelligence enabling sustainable development to promote the Belt and Road sustainable development of general AI. Meanwhile, the congress solicits academic papers from scientific professors, university scholars, and industry representatives in the fields of AI, electronic technology and information science, computer, etc. Through high-level activities such as government forums, industry-university-institute cooperation forums, and paper exchanges, the congress will strengthen industry-university-institute cooperation in AI and deepen academic exchanges and discussions at home and abroad to achieve higher quality and higher level of joint construction of the Belt and Road.

The congress recruits manuscripts from home and abroad. Both academic papers (must be written in English) and review papers are welcome. Accepted papers will be submitted for inclusion into IEEE Xplore subject to meet IEEE Xplore's scope and quality requirements. Excellent papers will be recommended to the cooperating journals of the congress.

# IEEE AICON 2024 GUIDE

## Welcome to Attend IEEE AICON 2024!

For your convenience in the congress, please read the following congress guide.

### Date

June 22–23, 2024

### Registration

14:00–22:00 June 22,  
Hangzhou Yunli Yue Hotel (Future Technology  
City Branch).  
08:00–12:00 June 23  
1st Floor of Hangzhou Future Sci–Tech City  
Academic Exchange Center

### Venue

Hangzhou Future Sci–Tech City Academic  
Exchange Center—about 100 meters from the  
northeast of Dream Village, Lixian Road, Yuhang  
District, Hangzhou, Zhejiang Province, China

### Scan QR code to watch live streaming

### Lunch

Please follow the instructions of the staff during the peak hours for dining.

*Please wear your congress card after registration which is the only valid certificate. And please take good care of it.*





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## ORGANIZATIONAL STRUCTURE

### Honorary Chairmen



#### LI Deyi

Honorary Chairman of the Eighth CAAI Council  
Academician of the Chinese Academy of Engineering  
Academician of the International Eurasian Academy of Sciences  
CAAI Fellow



#### FAN Weicheng

Academician of the Chinese Academy of Engineering, Director of the Institute of Public Safety Research at Tsinghua University, Director of the National Security Research Center



#### GUO Huadong

Academician of the Chinese Academy of Sciences, Foreign Academician of the Russian Academy of Sciences, Director of the International Research Center of Big Data for Sustainable Development Goals, Professor, ISC Fellow

### General Co-Chairs



#### MENG Xiaofeng

Director of the CAAI Social Computing and Social Intelligence Committee  
Professor of the Renmin University of China  
CCF Fellow



#### SUN Fuchun

Vice president of CAAI  
Professor of the Department of Computer Science and Technology, Tsinghua University  
Recipient of the National Science Fund for Distinguished Young Scholars  
IEEE/CAAI/CAA Fellow



#### Thorsten Jelinek

Visiting Professor, Aerospace Information Research Institute, Chinese Academy of Sciences, Europe Director, Taihe Institute, Research Fellow, Hertie School's Centre for Digital Governance



#### Manzoor H. Soomro

Winner of the 2020 Chinese Government Friendship Award, French Order of Academic Palms Laureate, Foreign Fellow of ASEAN Academy of Engineering and Technology (AAET), Founding Fellow of the Academy of Engineering and Technology for the Developing World (AETDEW)



#### LI Wenzheng

Executive Director of IEEE China Council, Chairman of the Committee on Industrial Cooperation and Innovation, Professor at Beijing University of Technology



## ORGANIZATIONAL STRUCTURE

### Program Committee Co-Chairs



#### DU Xiaoping

Professor at the Aerospace Information Research Institute, Chinese Academy of Sciences, Deputy Director of the Big Data Technology Department at the International Research Center of Big Data for Sustainable Development Goals



#### HUANG Kuangshi

Vice Director of CAAI Professional Committee of Social Computing and Social Intelligence Professor at the China Population and Development Research Center



#### ZHANG Hui

Professor and Vice Dean of the Institute of Public Safety Research, Tsinghua University, National Leading Talent



#### Shahzad Sarfraz

Professor and Director of FAST-National University of Computer and Emerging Sciences, CFD Campus, Pakistan

### Organizing Committee Co-Chairs



#### WANG Weining

Secretary-General of CAAI Research Fellow at Beijing University of Posts and Telecommunications



#### ZHANG Zike

Professor at Zhejiang University



#### HE Qing

Deputy Secretary General of CAAI Professor of Institute of Computing Technology, Chinese Academy of Sciences (CAS) CAAI Fellow

## Conference Agenda

Future Sci-Tech City Academic Exchange Center

	Time	Topics	Venue	
June 23rd	09:00-09:20	Opening Ceremony	Exchange Hall	
	09:20-12:20	Keynote		
	14:00-17:30		GAITC 2024: Artificial Intelligence and Emerging Technologies	Exchange Hall
			GAITC 2024: Opportunities and Emerging Risks for Global DRR vs AI	Conference Room 1
			GAITC 2024: Artificial Intelligence and Sustainable Population Development	Conference Room 2
			GAITC 2024: Artificial Intelligence, Health and Wellbeing	Conference Room 3
	18:30-21:30		GAITC 2024: Smart Cities and Communities for Sustainable Development	Exchange Hall
			GAITC 2024: Big Data Platforms Supporting Sustainable Development	Conference Room 1
			GAITC 2024: Sustainable Development of Oceans and Coastal Zones	Conference Room 2



June 23rd

## KEYNOTE

📍 Future Sci-Tech City Academic Exchange Center Exchange Hall

🕒 09:00–12:00

Time	Topics	Guest Speakers
<p><b>Host: SUN Fuchun</b> Vice president of CAAI, Professor of the Department of Computer Science and Technology, Tsinghua University, Recipient of the National Science Fund for Distinguished Young Scholars, IEEE/CAAI/CAA Fellow</p>		
09:00-09:10	<p><b>Address</b>  <b>Khan Muhammad Wazir</b> Science Counsellor, Embassy of Pakistan  <b>MENG Xiaofeng</b> Director of the CAAI Social Computing and Social Intelligence Committee, Professor of the Renmin University of China, CCF Fellow</p>	
09:10-09:20	<p><b>Progress on the 17 SDGs of Chinese Top Megacities, Hong Kong, and Macro 2021-2203</b>  <b>Yang Yue</b> Professor of urban informatics at Shenzhen University</p>	
09:20-10:00	<p><b>Exploration and Practice of Constructing Safety-Resilient Cities</b>  <b>FAN Weicheng</b> Academician of the Chinese Academy of Engineering, Director of the Institute of Public Safety Research at Tsinghua University, Director of the National Security Research Center</p>	
10:00-10:40	<p><b>Research and Application of Agricultural Artificial Intelligence</b>  <b>ZHAO Chunjiang</b> Vice President of CAAI, Academician of the Chinese Academy of Engineering, Director of the National Engineering Research Center for Information Technology in Agriculture, CAAI Fellow</p>	
10:40-11:20	<p><b>主题报告</b>  <b>Thorsten Jelinek</b>            Visiting Professor, Aerospace Information Research Institute, Chinese Academy of Sciences, Europe Director, Taihe Institute, Research Fellow, Hertie School's Centre for Digital Governance</p>	
11:20-12:20	<p><b>AI for Sustainable Development in the Belt and Road Countries-Need for Capacity Building</b>  <b>Manzoor H.Soomro</b> Winner of the 2020 Chinese Government Friendship Award, French Order of Academic Palms Laureate, Foreign Fellow of ASEAN Academy of Engineering and Technology (AAET), Founding Fellow of the Academy of Engineering and Technology for the Developing World (AETDEW)</p>	



## ————| About the Guests |————



**Khan  
Muhammad  
Wazir**

### .....Address Speaker

**Science Counsellor, Embassy of Pakistan, Beijing, China**

Khan Muhammad Wazir is responsible for promoting Sino-Pakistani bilateral scientific and technological cooperation and the implementation of various scientific and technological projects and initiatives between the two countries. He has served as a government advisor to the Federal Minister for Science and Technology of Pakistan and as Deputy Scientific Advisor at the Ministry of Science and Technology of the People's Republic of China. He is in charge of projects funded by the China-Pakistan Joint Research Center on Earth Sciences, the China-Pakistan Belt and Road Joint Laboratory on Smart Disaster Prevention of Major Infrastructures, and the China-Pakistan "Belt and Road" Joint Laboratory on Small Hydropower Technology. He has been invited multiple times to attend scientific, technological, and innovation summits and seminars in China as a guest speaker.



**MENG  
Xiaofeng**

### .....Address Speaker

**Director of the CAAI Social Computing and Social Intelligence Committee, Professor of the Renmin University of China, CCF Fellow**

Meng Xiaofeng has long been engaged in the research and teaching of database and data management. He has independently developed multiple data management systems and compiled years of research results into academic monographs such as "XML Data Management: Concepts and Techniques", "Mobile Data Management: Concepts and Techniques", "Web Data Management: Concepts and Techniques", and "Data Privacy and Data Governance". He has won provincial and ministerial special prizes, the Second Prize of the Beijing Science and Technology Award, and the First Prize of the CCF "Wang Xuan Award". He has also been selected for the Zhongchuang Software Talent Award, the Program for New Century Excellent Talents of the Ministry of Education, and the "Third Beijing University Teaching Excellence Award". Additionally, he has served multiple times as the Chair of ACM SIGSPATIAL China Chapter. Recently, Professor Meng Xiaofeng's main research areas include database theory and systems, data fusion and data intelligence, data privacy and data governance, and interdisciplinary fields such as social computing and social intelligence.



**Yang Yue**

### .....Keynote Speaker

**Professor of urban informatics at Shenzhen University**

Yang Yue professor of urban informatics at Shenzhen University Her research and teaching focus on innovations at the nexus of urban big data, GeoAI, and social sustainability. She is an associate editor of Computers, Environment and Urban Systems, vice-chair of the ACM SIGSPATIAL China Chapter, and co-chair of the Special Committee on Social & Remote Sensing for Computational Social Science. She was recognized as one of the top 20 female innovators by the Chinese Society for Geodesy, Photogrammetry, and Cartography (2023).



## —| About the Guests |—



**FAN Weicheng**

### .....Keynote Speaker

Academician of the Chinese Academy of Engineering, Director of the Institute of Public Safety Research at Tsinghua University, Director of the National Security Research Center

FAN Weicheng serves as the convener of the first evaluation group for the first-level discipline of "Safety Science and Engineering" under the Academic Degrees Committee of the State Council, the chairman of the Safety Industry Alliance under the Ministry of Industry and Information Technology, and a previous member of the Emergency Management Expert Group of the State Council. His research areas include public safety dynamics evolution, risk assessment, monitoring and control, as well as fire dynamics and prevention technologies. He has won the first prize and two second prizes in the National Science and Technology Progress Award, the first and second prizes of the National Teaching Achievement Award, the National Labor Medal and the first Lifetime Achievement Award of the Asia-Oceania Association for Fire Science and Technology. He is also the first Chinese recipient of the Emmons Award and the Sjölin Lifetime Achievement Award.



**ZHAO Chunjiang**

### .....Keynote Speaker

Vice President of CAAI, Academician of the Chinese Academy of Engineering, Director of the National Engineering Research Center for Information Technology in Agriculture, CAAI Fellow

ZHAO Chunjiang has been engaged in research on agricultural informatization and intelligent agriculture. He has led the implementation of the Demonstration Project of Intelligent Information Technology in Agriculture of the National High-tech R&D Program (863 Program) (as the General Group Leader), and specialized plans such as the Precision Agriculture Plan, and the Digital Agriculture Plan (as the expert who hold certain responsibilities). Academician Zhao also has made a series of innovative achievements that have been applied in 31 provinces and cities across China, including the decision-making platform for intelligent systems in agriculture, the key technologies of space-terrestrial information collection in digital agriculture, Beidou navigation control and intelligent operation equipment for precision agriculture, Internet of Things in greenhouse measurement and control for intelligent agriculture, and the agricultural cloud platform of big data.



**Thorsten Jelinek**

### .....Keynote Speaker

Visiting Professor, Aerospace Information Research Institute, Chinese Academy of Sciences, Europe Director, Taihe Institute, Research Fellow, Hertie School' s Centre for Digital Governance

Dr. Thorsten Jelinek is the Europe Director and Senior Fellow at the Taihe Institute, specializing in digital governance. He is also a Visiting Professor at the Aerospace Information Research Institute of the Chinese Academy of Sciences and a Research Fellow at the Hertie School's Center for Digital Governance. Additionally, he is a recurring member of the T20. Dr. Jelinek holds a Ph.D. in Sociology from the University of Cambridge, an M.Sc. in Organizational and Social Psychology from the London School of Economics, and a B.Sc. in Software Engineering and Business Administration from the Berlin University of Applied Sciences. Previously, he served as an Associate Director at the World Economic Forum and has many years of industry experience.

——| About the Guests |——



**Manzoor  
H.Soomro**

.....**Keynote Speaker**

Winner of the 2020 Chinese Government Friendship Award, French Order of Academic Palms Laureate, Foreign Fellow of ASEAN Academy of Engineering and Technology (AAET), Founding Fellow of the Academy of Engineering and Technology for the Developing World (AETDEW)

Manzoor H. Soomro is a renowned scientist and science popularizer in Pakistan. He has been the Founder President of the ECO Science Foundation (ECOSF) and led it since its inception in December 2011 till August 2022. He now serves the organization as an Honorary Advisor. He is also serving as the Vice President of the International Belt and Road Science Education Consortium (BRISEC), an Honorary Professor (since March 2022) of the Beijing Technology and Business University (BTBU), and an Honorary Professor at the Center of Excellence in BioEnergy of the China Agricultural University (since May 2023), Beijing China. He is a Distinguished Overseas S&T Expert of China Association for Science and Technology (CAST), a Distinguished Overseas Expert of China National S&T Press of CAST, a distinguished overseas expert of China Science and Technology Press, and a Communication Ambassador of Beijing Global Talents Exchange Association, Beijing, China. He is the Founder Member of “The Belt and Road STI Think Tank Cooperation Network” under the Chinese Academy of Science and Technology for Development (CASTED) .



**SUN Fuchun**

.....**Host**

Vice president of CAAI, Professor of the Department of Computer Science and Technology, Tsinghua University, Recipient of the National Science Fund for Distinguished Young Scholars, IEEE/CAAI/CAA Fellow

SUN Fuchun is a member of the Academic Committee of Tsinghua University, the deputy director of the Tenured Professor Committee of the Department of Computer Science and Technology, and the director of the Intelligent Robotics Center of the Institute of Artificial Intelligence at Tsinghua University. He serves as a member of the general expert group of the “Intelligent Robot” project of National Key Research and Development Plan, a supervisor of the Chinese Association of Automation and the standing director of the Chinese Society for Cognitive Science. He is also the editor-in-chief of Cognitive Computation and Systems and AI and Autonomous Systems, the executive editor of CAAI Artificial Intelligence and the associate editor of IEEE Transactions On Fuzzy Systems.



June 23rd

# GAITC 2024: Artificial Intelligence and Emerging Technologies

Sponsors: Chinese Association for Artificial Intelligence, IEEE China Council

📍 Future Sci-Tech City Academic Exchange Center Exchange Hall

🕒 14:00–16:30

Time	Topics	Guest Speakers
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**Chair:**

**LIN Feng** Professorial Scientist at Research Center for Frontier Fundamental Studies, Zhejiang Lab

**LI Jianping** Principal Engineer of Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences  
 Director of Shenzhen Engineering Laboratory for Marine Acousto-optical Detecting Technology and Equipment

**Host: LIN Feng** Professorial Scientist at Research Center for Frontier Fundamental Studies, Zhejiang Lab

14:00-14:30	<p><b>Building an Emerging AI Industry Ecosystem to Foster the Development of New Quality Productive Forces</b></p> <p><b>HOU Yong</b> Vice President of Zhejiang Huawei, Minister of the Department of Industrial Development and Ecology</p>
14:30-15:00	<p><b>AI for the Next Generation of Precision Oncology in Diagnosis and Treatment</b></p> <p><b>QIN Wenjian</b> Professorial Scientist at Research Center for Frontier Fundamental Studies, Zhejiang Lab</p>
15:00-15:30	<p><b>Empowering Precision Medicine with AI: Bridging Pathology and Spatialomics in Cancer Research</b></p> <p><b>ZHANG Qing</b> Professorial Scientist at Research Center for Frontier Fundamental Studies, Zhejiang Lab</p>

**Host: QIN Wenjian** Professorial Scientist at Research Center for Frontier Fundamental Studies, Zhejiang Lab

15:30-16:00	<p><b>Some Thoughts On World Model</b></p> <p><b>WU Zhongke</b> Professor of the School of Artificial Intelligence, Beijing Normal University</p>
16:00-16:30	<p><b>Empowering Aging with AI Technology to Prevent Falls and Injuries</b></p> <p><b>XIONG Shuping</b> Professor, Associate Vice President of International Engagement Korea Advanced Institute of Science and Technology (KAIST)</p>

—| About the Guests |—



LIN Feng

.....Chair/Host

Professorial Scientist at Research Center for Frontier Fundamental Studies, Zhejiang Lab

LIN Feng's research interests include AI+ Bioinformatics and Intelligent biomedical imaging. He has published approximately 300 papers in SCI journals such as IEEE TPAMI and in flagship international conferences, including MICCAI, and 4 monographs. Granted 20 patents, Mr. Lin is also the recipient of one National Prize for Progress in Science and Technology, four provincial and ministerial awards for progress in science and technology, and the National Science Fund for Distinguished Young Scholars (Hong Kong). He was the chairman of the Senate of the Academic Board at Nanyang Technological University, Singapore, and Executive Dean of the Research Center for Artificial Intelligence, Zhejiang Lab.



LI Jianping

.....Chair/Host

Principal Engineer of Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences  
Director of Shenzhen Engineering Laboratory for Marine Acousto-optical Detecting Technology and Equipment

LI Jianping is a member of the "Hundred Talents Program" of Chinese Academy of Sciences (CAS), and is recognized as Shenzhen High Level Talent and a leading talent at the local level. His research interests include innovative optical methods, advanced optoelectronic devices, and the application of machine vision and machine learning in ocean observations. He has led or participated in various research projects funded by the National Key R&D Programs, the National Natural Science Foundation of China, CAS, the Research Grants Council (RGC) of the University of Hong Kong, the Department of Science and Technology of Guangdong Province, and Shenzhen Science and Technology Innovation Commission, etc. He has published multiple papers and obtained eleven invention patents and six utility model patents.



HOU Yong

.....Guest Speaker

Vice President of Zhejiang Huawei, Minister of the Department of Industrial Development and Ecology

HOU Yong is responsible for industrial development of multiple industries including Kunpeng and Ascend Computing, artificial intelligence, cloud service, industrial Internet and digital energy. He has participated in more than 10 national strategic projects and published 3 books as a co-author, over 10 core papers and more than 10 white papers. He is also a member of expert panels of many organizations such as China Alliance of Intelligent Computing, the Alliance of Industrial Internet, China Association of Circular Economy, CCF, Zhejiang Digital Economy Alliance, and Zhejiang Information Technology Application Innovation Alliance.



QIN Wenjian

.....Guest Speaker/Host

Professorial Scientist at Research Center for Frontier Fundamental Studies, Zhejiang Lab

Qian Wenjian's main research areas are medical artificial intelligence and computational modeling for oncology analysis. He has been recognized as a Specially Appointed Research Technology Expert by the Chinese Academy of Sciences and a Pengcheng Peacock Distinguished High-Level Talent in Shenzhen. He has published over 80 SCI/EI papers and holds 48 authorized national invention patents. He has developed five domestically produced high-end tumor diagnostic and treatment devices and computer-aided intelligent diagnostic systems, receiving four medical device registration certificates. He has led over 20 projects, including the National Key R&D Program for Young Scientists, and has won the Provincial Science and Technology Progress First/Second Prizes twice. He serves as a guest associate editor for journals like *IEEE JBHI* and has initiated and organized CMMCA2022 and CMMCA2023.



## —| About the Guests |—



**ZHANG Qing**

.....**Guest Speaker**

**Professorial Scientist at Research Center for Frontier Fundamental Studies, Zhejiang Lab**

ZHANG Qing is a Senior Principle Investigator of Zhejiang Lab, with over 20 years of research experience in precision medicine, artificial neural networks, and smart sensing. He was selected for multiple talent programs such as the China-Australia High-Level Technology Talent Exchange Program. He has led various national research projects and acquired more than 75 million RMB in research funding. He holds several invention patents in the US and Australia that have been successfully commercialized. He has published nearly 150 journal and conference papers and has long served as the chair of the IEEE EMB Chapter of Queensland, Australia.



**WU Zhongke**

.....**Guest Speaker**

**Professor of the school of Artificial Intelligence, Beijing Normal University**

WU Zhongke has presided over and participated in more than ten national key research and development plans, national high-tech research and development plans, national natural science foundation key projects, and natural science foundation projects, involving computer graphics and computer-aided geometric design, computer animation and virtual reality, medical image processing, etc. He has published more than 300 academic papers in domestic and foreign academic journals and international academic conferences, and has won many awards including the second prize of the National Science and Technology Progress Award.



**XIONG Shuping**

.....**Guest Speaker**

**Professor, Associate Vice President of International Engagement Korea Advanced Institute of Science and Technology (KAIST)**

Xiong’s primary research areas are smart technology for healthy aging, digital human modeling, and human-computer interaction. He has led over 30 research projects, including 7 China/Korea National Natural Science Foundation projects. He has published more than 110 research papers, including over 70 SCI journal articles. He has received multiple international awards, including the 2023 Elsevier “IJIE Most Cited Articles Published in the Past 3 Years” and the “Applied Ergonomics Best Paper Award.” He serves as an editor or editorial board member for six SCI journals and is a co-chair for the International Conference on Applied Human Factors and Ergonomic



June 23rd

## GAITC 2024: Opportunities and Emerging Risks for Global DRR vs AI

Sponsors: Chinese Association for Artificial Intelligence, IEEE China Council  
Organizers: Integrated Research on Disaster Risk (IRDR)

Future Sci-Tech City Academic Exchange Center Conference Room 1

14:00–17:00

Time	Topics	Guest Speakers
<p><b>Chair:</b>  <b>CHEN Jianguo</b> Professor at the School of Safety Science, Tsinghua University                      Deputy Director of the Ministry of Education Engineering Research Center for Public Safety and Emergency Management of Tsinghua University  <b>HAN Qunli</b> Executive Director of the Integrated Research on Disaster Risk (IRDR), Distinguished Professor at the International Research Center of Big Data for Sustainable Development Goals (CBAS) supported by the Chinese Academy of Sciences</p>		
<p><b>Host: CHEN Jianguo</b> Professor at the School of Safety Science, Tsinghua University                      Deputy Director of the Ministry of Education Engineering Research Center for Public Safety and Emergency Management of Tsinghua University</p>		
14:00-14:10	<b>Opening Remarks by the Moderators</b>	
14:10-14:25	<b>Exploring the Potential of Artificial Intelligence in Disaster Risk Reduction</b>	<b>Fatmah</b> Head of the Disaster Management Master Study Program at the School of Environmental Science Universitas Indonesia
14:25-14:40	<b>Disaster Damage Analysis and Social Networking Services Research: From Statistics to AI-Driven Approach</b>	<b>Natt Leelawat</b> Faculty of Engineering, Chulalongkorn University, Thailand
14:40-14:55	<b>Using Numerical Simulation and Digital Twinning to Forecast Compound Flood Disasters</b>	<b>GAO Liang</b> State Key Laboratory of Internet of Things for Smart City, University of Macau
14:55-15:10	<b>Origin-Destination Mobility Data and Its Application in Disaster Risk Reduction</b>	<b>LIU Huan</b> Disaster Prevention Research Institute, Kyoto University, Japan
15:10-15:30	<b>Change in Global Tropical Cyclone Precipitation Footprint from 1980 to 2020</b>	<b>QIN Lianjie</b> School of Safety Sciences, Tsinghua University, China
15:30-15:50	<b>Break</b>	
<p><b>Host: HAN Qunli</b> Executive Director of the Integrated Research on Disaster Risk (IRDR), Distinguished Professor at the International Research Center of Big Data for Sustainable Development Goals (CBAS) supported by the Chinese Academy of Sciences</p>		
15:50-16:35	<b>Panel Discussions</b>	
16:35-16:55	<b>Q&amp;A and Discussion from the Audience</b>	
16:55-17:00	<b>Closing Remarks by the Moderators</b>	



## —| About the Guests |—



**CHEN  
Jianguo**

### .....Chair/Host

Professor at the School of Safety Science, Tsinghua University, Deputy Director of the Ministry of Education Engineering Research Center for Public Safety and Emergency Management of Tsinghua University

CHEN Jianguo is the director of the Urban Safety Science and Technology Center, Hefei Institute for Public Safety Research, Tsinghua University. His research interests include urban safety risk monitoring, analysis, and evaluation techniques, and theoretical and technical research on risk prevention and control for grassroots public safety. He has led or participated in four scientific and technological support projects, including the one under the “14th Five-Year Plan”, five projects funded by the National Natural Science Foundation of China, and three projects guided by the National High-tech R&D Program (863 Program). Besides, he has won one second prize in the National Prize for Progress in Science and Technology, two first prizes and one second prize in the Provincial and Ministerial Science and Technology Progress Award, and one third prize. In addition, Mr. Chen has published over 120 papers in domestic and international journals. Also, he obtained 8 scientific and technological achievements recognized by the Ministry of Education of the PRC, more than 20 software copyrights, and 18 patents.



**HAN Qunli**

### .....Chair/Host

Executive Director of the Integrated Research on Disaster Risk (IRDR), Distinguished Professor at the International Research Center of Big Data for Sustainable Development Goals (CBAS) supported by the Chinese Academy of Sciences

HAN Qunli serves as a director of the New Agenda on the Global Disaster Reduction Research developed by IRDR, the International Science Council (ISC), and the United Nations Office for Disaster Risk and Reduction (UNDRR) in 2021. The agenda promotes disaster reduction and safe development through science and technology. He worked for the United Nations Educational, Scientific and Cultural Organization (UNESCO) from 1990 to 2017. He has served as the organization’s environmental scientist, representative to Iran and Turkmenistan, Director of the Division of Ecological and Earth Sciences, and the Secretary of the Man and the Biosphere (MAB) Programme.



**Fatmah**

### .....Guest Speaker

Head of the Disaster Management Master Study Program at the School of Environmental Science Universitas Indonesia

Fatmah is the head of the Disaster Management Master Study Program at the School of Environmental Science Universitas Indonesia. Fatmah has five years of experience in teaching and conducting research in disaster management. Specializing in Disaster Information, Technology and Communication, Public Health Disasters, and Nutrition in Emergency Situations, Fatmah mainly uses that experience to undertake her research. Some articles on disaster management areas have been published in Scopus Journal i.e. Frontier in Sustainable System, Frontiers in Nutrition, Jamba Journal of Disaster Risk Studies, Plos One, etc. Fatmah developed an emergency food product in terms of a food bar made from mangrove flour mixed with broccoli, and potatoes almond cookies for vulnerable groups following disasters.

————| About the Guests |————



Natt Leelawat

.....Guest Speaker

Faculty of Engineering, Chulalongkorn University, Thailand

Natt Leelawat is an associate professor in Industrial Engineering at the Faculty of Engineering, Chulalongkorn University. He is also the assistant dean of the Faculty of Engineering and the Head of the Disaster and Risk Management Information Systems Research Unit. Dr. Leelawat received his B.Sc. (First Class Honours) in Information Technology from the Sirindhorn International Institute of Technology, Thammasat University, Thailand; and M.Eng. and D.Eng. in Industrial Engineering and Management from Tokyo Institute of Technology, Japan. He is an IEEE Senior Member, and a Member of BCI, and the Earthquake Research Center of Thailand. He was awarded the SakIntania's Young Lecturer Award in 2018, as well as Best Paper Awards from the SUSTAIN in 2015, the ICA-SYMP in 2021, and the IE-NETWORK in 2022. His research areas include Disaster and Risk Management, Business Continuity Management, Management Information Systems, etc.



GAO Liang

.....Guest Speaker

State Key Laboratory of Internet of Things for Smart City, University of Macau

GAO Liang is currently an assistant professor of the University of Macau. Her research interests focus on numerical modelling of multi-hazards in coastal mountainous area, including slope failure, flood, and debris flows. She has published over 60 SCI papers with 34 as first/corresponding authors (JCR:Q1, 28) on top-tier journals including the Journal of Hydrology, Journal of Climate, Engineering Geology and Landslides, etc. She serves as the reviewer of many journals such as JH, RSE, WRR, and so on. She is the editorial board member of Georisk (Q1, IF 4.8), Underground Space (Q1, IF 6.2), and Journal of Intelligent Construction. She was invited to conduct oral presentations at 17 conferences or double first-class universities.



LIU Huan

.....Guest Speaker

Disaster Prevention Research Institute, Kyoto University, Japan

LIU Huan holds the Ph.D. degree from Kyoto University and currently serves as an Assistant Professor at the Disaster Prevention Research Institute, Kyoto University. Her research focuses on disaster risk management and resilience assessment, with particular interests in economic loss assessment, economic resilience, and intelligent disaster risk prevention. Over the past five years, she has published over 20 papers, with 6 research achievements being awarded for outstanding presentations at international conferences. Dr. LIU has led 2 projects and contributed as a CO-PI or core member to 4 projects, such as the NSF-JST Joint International Collaborative project and projects funded by the MEXT of Japan. Additionally, she serves as a junior editor for the Earthquake Engineering and Resilience Journal and acts as a reviewer for several international journals.



QIN Lianjie

.....Guest Speaker

School of Safety Sciences, Tsinghua University, China.

QIN Lianjie is an associate professor at the School of Safety Sciences, Tsinghua University. Dr. Qin received his B.S. degree from the School of Information Engineering, China University of Geosciences, and his M.S. and Ph.D. degrees from the Academy of Disaster Reduction and Emergency Management, Ministry of Emergency Management and Ministry of Education, Beijing Normal University. Dr. QIN has published several research papers in journals such as Nature Communications, npj Natural Hazards, Water Resources Research, Geomatic Natural Hazards & Risk, and Injury Prevention. His research areas include risk assessment of economic losses from tropical cyclones and optimization of disaster shelter location and allocation.



June 23rd

# GAITC 2024: Artificial Intelligence and Sustainable Population Development

Sponsors: Chinese Association for Artificial Intelligence, IEEE China Council  
 Organizers: CAAI Professional Committee of Social Computing and Social Intelligence

📍 Future Sci-Tech City Academic Exchange Center Conference Room 2

🕒 14:00–17:00

Time	Topics	Guest Speakers
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**Chair:**

**HUANG Kuangshi** Vice Director of CAAI Professional Committee of Social Computing and Social Intelligence, Professor at the China Population and Development Research Center  
**Kirk Scott** Professor, School of Economics and Management, Lund University

**Host: HUANG Kuangshi** Vice Director of CAAI Professional Committee of Social Computing and Social Intelligence, Professor at the China Population and Development Research Center

14:00-14:30	<b>A Study on High-Quality Population Development Based on Artificial Intelligence</b> <b>HE Dan</b> Director-General and Research Fellow of China Population and Development Research Center
14:30-15:00	<b>Demographic Challenges in an Uncertain Future</b> <b>Kirk Scott</b> Professor, School of Economics and Management, Lund University
15:00-15:30	<b>The Innovation of Two-Sex Population Model and the Development of Generalized Demography</b> <b>MI Hong</b> Professor of the Department of Social Security and Risk Management, School of Public Affairs, Zhejiang University, Director of the Research Base of Population Big Data and Policy Simulation (Workshop), Zhejiang University

**Host: Kirk Scott** Professor, School of Economics and Management, Lund University

15:30-16:00	<b>The Use of Artificial Intelligence (AI) and Agent-Based Modeling (ABM) to Simulate the Impact of Different Policies on Future Population Dynamics</b> <b>Jarosław Przeperski</b> Director of the Centre for Family Research at Nicolaus Copernicus University in Torun, Assistant Professor of the Faculty of Philosophy and Social Sciences at NCU
16:00-16:30	<b>The Problems, Needs, and Ideas of Infant and Toddler Care Insurance</b> <b>ZHU Hailong</b> Professor of the School of Public Administration, Hangzhou Normal University, Dean of the Institute of Population Development and Health
16:30-17:00	<b>Smart Childcare: Application and Talent Cultivation</b> <b>PAN Jianming</b> General Manager of JINZHIWEIYE Group Co.

————| About the Guests |————



**HUANG Kuangshi**

.....Chair/Host

Vice Director of CAAI Professional Committee of Social Computing and Social Intelligence, Professor at the China Population and Development Research Center

HUANG Kuangshi's primary research focuses on population forecasting and modeling, as well as digital and computational demography. He has led or been responsible for key projects funded by the National Social Science Fund, major projects of the National Social Science Fund, and completed multiple projects for the National Health Commission and the National Development and Reform Commission, providing strong support for scientific decision-making of the central government. He has published dozens of papers in journals such as People's Daily, Population Research, Chinese Journal of Population Science, and Journal of Family Issues. Huang has been awarded the First Prize of the Seventh China Population Science Outstanding Achievement Award.



**Kirk Scott**

.....Chair/Guest Speaker/Host

Professor, School of Economics and Management, Lund University

Kirk Scott research lies primarily in the intersection between immigrant integration and demography, with focuses on labor market integration in general, and its impact on demographic behavior in particular. To this end, interest has been both on the economic and demographic integration of immigrants themselves, as well as the pathways through which the children of immigrants integrate into the host society. Parallel with these studies, he has become increasingly interested in the economic impacts of population ageing, and potential policy answers to the challenges caused by an ageing population. He is a past president of the Swedish Demographic Association and the Nordic Demographic Association, and served as Dean of the European Doctoral School of Demography 2009–2011. He recurrently serves the profession in a number of ways. He is a member of: the Council of Advisors for Population Europe, the Scientific Board for the European Doctoral School of Demography, the Scientific Advisory Board of the Division of Ageing and Social Change, Linköping University.



**HE Dan**

.....Guest Speaker

Director-General and Research Fellow of China Population and Development Research Center

HE Dan With a dedicated focus on population and development research and policy support, she has actively contributed to the drafting of several crucial national documents. Ms. HE has undertaken numerous projects funded by the National Social Science Foundation of China, key S&T research programs, and major research initiatives of national high-end think tanks. Her research findings are featured in over 70 academic papers and commentary articles published in journals such as Population Research and Economic Daily. Furthermore, she has taken on the role of editor-in-chief for 15 publications, including China Population Prospects, Research Report on Health Poverty Alleviation in China, etc.



## —| About the Guests |—



**MI Hong**

.....**Guest Speaker**

Professor of the Department of Social Security and Risk Management, School of Public Affairs, Zhejiang University, Director of the Research Base of Population Big Data and Policy Simulation (Workshop), Zhejiang University

MI Hong is the Chairman of Ma Yinchu Research Association of Zhejiang Province. His research interests include mathematical demography, policy simulation, and emergency management methods and techniques. He has presided over the completion of 16 major projects funded by National Natural Science Foundation of China and 8 international cooperation projects. He has led the research and development of 8 software and obtained 2 patents. He has published more than 20 monographs and over 200 Chinese and English papers in multiple authoritative journals at home and abroad. He has received 22 awards at the provincial and ministerial levels.



**Jarosław Przeperski**

.....**Guest Speaker**

Director of the Centre for Family Research at Nicolaus Copernicus University in Torun, Assistant Professor of the Faculty of Philosophy and Social Sciences at NCU

Jarosław Przeperski’ research interests include studies of family transitions and risk, family policies, demographic processes, child and family social work, decision-making processes, and behavioral public policies. He is the author of more than a dozen publications in international scientific journals. He is also the editor of publications and book series in publishers such as Oxford University Press, Routledge, and Springer. He is also the expert and principal researcher in projects conducted for the Ministry of Family, Labor and Social Policy, the Ministry of Justice, the Presidential Chancellery, and the Ombudsman for Children.



**ZHU Hailong**

.....**Guest Speaker**

Professor of the School of Public Administration, Hangzhou Normal University, Dean of the Institute of Population Development and Health

ZHU Hailong’ s research interests include social security and social policy. He has undertaken nearly 10 projects supported by the National Social Science Fund and published 2 monographs and over 50 papers reproduced by Xinhua Digest, China Social Sciences Digest, and China Social Sciences Excellence on Sociology and Politics. He has won multiple awards such as the 15th Outstanding Sociological Achievement Award of Hunan Province, the First Excellent Article for Journal Promotion Theme by the Propaganda Department of Hunan Provincial Committee, and the Excellent Master’ s Degree Thesis (Instructor) by the Provincial Academic Degree Committee three times.



**PAN Jianming**

.....**Guest Speaker**

General Manager of JINZHIWEIYE Group Co.

PAN Jianming is a member of the National Teaching Instruction Committee of Civil Affairs Vocational Education, Deputy Director of the Specialized Committee on Healthcare and Wellness Education of the Chinese Society for Technical and Vocational Education, Head of the National Enterprise Practice Base for Teachers of Vocational Education in the field of Public Administration and Service, Master’s supervisor of the Central South University of Forestry and Technology, Head of the National 1+X Early Child Care Occupational Skill Level Certificate Program, and President of the Nursery Teachers Association of Hunan. He is mainly engaged in research and work on the specialty construction, talent training, vocational skills training and evaluation of early child care.

June 23rd

## GAITC 2024: Artificial Intelligence, Health and Wellbeing

Sponsors: Chinese Association for Artificial Intelligence, IEEE China Council

Future Sci-Tech City Academic Exchange Center Conference Room 3

14:00–17:30

Time	Topics	Guest Speakers
<p><b>Chair:</b>  <b>SONG Limin</b> Professor, the School of Public Administration, Liaoning University, Director of the Center for Population, Resources and Environment of Liaoning University  <b>Meirong Liu</b> Associate Professor, Director of Research, Howard University School of Social Work, Chair of Council on Social Work Asian American/Pacific Islander Track</p>		
<p><b>Host: SONG Limin</b> Professor, the School of Public Administration, Liaoning University, Director of the Center for Population, Resources and Environment of Liaoning University</p>		
14:00-14:30	<p><b>Digitally-enabled Medical Testing in the AIGC Era</b>  <b>LI Yinghua</b> Vice President of Guangzhou KingMed Group, General Manager of Digital Management Center of Guangzhou KingMed Group, Professor at Guangzhou Medical University</p>	
14:30-15:00	<p><b>Evaluating and Addressing Bias in Generative AI in the Health of Underrepresented Communities</b>  <b>Meirong Liu</b> Associate Professor, Director of Research, Howard University School of Social Work, Chair of Council on Social Work Asian American/Pacific Islander Track</p>	
15:00-15:30	<p><b>The Comparative Analysis and Policy Responses on Lifelong Infertility of Women at Home and Abroad</b>  <b>SONG Limin</b> Professor, the School of Public Administration, Liaoning University, Director of the Center for Population, Resources and Environment of Liaoning University</p>	
<p><b>Host: Meirong Liu</b> Associate Professor, Director of Research, Howard University School of Social Work, Chair of Council on Social Work Asian American/Pacific Islander Track</p>		
15:30-16:00	<p><b>Embodied AI Improve Surgical Accessibility</b>  <b>LIU Yue</b> Associate Researcher of Zhejiang Urban Governance Studies Center</p>	
16:00-16:30	<p><b>Assisted Reproduction and High-Quality Population Development</b>  <b>LIANG Yichao</b> Director, Market Access&amp; Pricing Department, Merck Serono Co.,Ltd</p>	
16:30-17:00	<p><b>Living Longer, But Whether Living Healthier?</b>  <b>QIAO Xiaochun</b> Professor of Peking University, President of Beijing Jingmin Social Welfare Research Institute</p>	



## —| About the Guests |—



**SONG Limin**

### .....Chair/Guest Speaker

**Professor, the School of Public Administration, Liaoning University, Director of the Center for Population, Resources and Environment of Liaoning University**

Song Limin has been engaged in research in the fields of population urbanization and labor employment, population change and regional development for a long time. She has published 30 academic papers and 2 academic monographs, presided over 2 National Social Science Fund projects, and led 30 provincial and municipal level horizontal projects such as the National Health Commission. She has received 18 leadership instructions and decisions, and won 24 provincial and ministerial level awards. Her research results provide decision-making basis and public opinion guidance for local governments to clarify population development goals and formulate population development strategies.



**Meirong Liu**

### .....Chair/Guest Speaker

**Associate Professor, Director of Research, Howard University School of Social Work, Chair of Council on Social Work Asian American/Pacific Islander Track**

Meirong Liu research focuses on how public programs and private assistance help vulnerable children meet their basic needs and health disparities experienced by racial/ethnic minorities. She has obtained over \$7 million grants from organizations such as the National Institutes of Health, the Health Resources and Services Administration, the Bezos Earth Foundation, and various foundations. Dr. Liu currently serves as the Principal Investigator for a study titled “Improving the Health of Asthmatic Children in Public Housing,” funded by the Princeton Alliance for Collaborative Research and Innovation, and Co-Principal Investigator on Evaluating and Addressing Biases in Generative AI for Minority Health at the Human-Centered Artificial Intelligence at Howard University. Her work has been widely published in leading international social policy and public health journals. She serves on the editorial boards of several esteemed publications, as well as NIH R01 grant review panels. Dr. Liu is also the lead editor of the forthcoming book, “Addressing Anti-Asian Racism with Social Work Advocacy and Action” (Liu & Chan, eds., forthcoming Fall 2024) by the Oxford University Press.



**LI Yinghua**

### .....Guest Speaker

**Vice President of Guangzhou KingMed Group, General Manager of Digital Management Center of Guangzhou KingMed Group, Professor at Guangzhou Medical University**

LI Yinghua has led and participated in a number of national, provincial and municipal major scientific research projects, and won a number of awards. He has led the “Artificial Intelligence Open Innovation Platform for Clinical Testing and Pathological Diagnosis” awarded by the Science and Technology Department of Guangdong Province. He led the team to make major scientific breakthroughs in medical AI (AI diagnosis of cervical cancer, AR medical microscope, pathological knowledge atlas, etc.) and achieved results. Now, he serves as a member of the Standing Committee of Ethics Committee of the Chinese Medical Information and Big Data Association, a member of the Information Committee of the Chinese Non-government Medical Institution Association, and an expert in the think tank of data quality management.

——| About the Guests |——



LIU Yue

.....Guest Speaker

Associate Researcher of Zhejiang Urban Governance Studies Center

LIU Yue Associate Researcher of Zhejiang Urban Governance Studies Center Dr Yue Liu is Deputy Secretary General of Population Platform in Hangzhou International Urbanology Research Center, Associate Researcher of Zhejiang Urban Governance Studies Center. Her research interests include population aging, elderly health, and elderly care. She presided over one project funded by the National Social Science Foundation of China, participated in the application and authorization of four invention patents, and published four academic papers.



LIANG Yichao

.....Guest Speaker

Director, Market Access& Pricing Department, Merck Serono Co.,Ltd

LIANG Yichao is responsible for leading Merck Serono's central Health insurance and health access team, developing Merck's access strategy in China, and engaging in health insurance policy research. He supports product market access in China, including pharmacoeconomics, new product evaluation, domestic and foreign health insurance policy analysis and interpretation, chronic disease management project evaluation, human assisted reproductive technology and policy research. He has more than 10 years of experience in the pharmaceutical industry, and previously worked in the government affairs and market access teams of Bayer and Pfizer. He has rich experience in medical insurance and health policy research in the fields of diabetes, hypertension, oncology, autoimmunity, and assisted reproduction.



QIAO Xiaochun

.....Guest Speaker

Professor of Peking University, President of Beijing Jingmin Social Welfare Research Institute

QIAO Xiaochun is a professor at the Institute of Population Research, Peking University and vice president of the China Population Association. His research interests include demographic techniques, quantitative methods in social sciences, population and social policies, population health and healthy life expectancy, etc. He served as the editor-in-chief of Population Research and the executive editor-in-chief of Population and Development. He has published many papers, including the Positioning of “Big Health” From the Oerspective of Health Measurement, Social Policy Research and Comparison of Changes and Differences in Healthy Life Expectancy among the Elderly Nationwide and in Various Provinces, Population and Economy.



June 23rd

# GAITC 2024: Smart Cities and Communities for Sustainable Development

Sponsors: Chinese Association for Artificial Intelligence, IEEE China Council

📍 Future Sci-Tech City Academic Exchange Center Exchange Hall

🕒 18:30–21:30

Time	Topics	Guest Speakers
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**Chair:**

**ZHANG Hui** Professor and Vice Dean of the Institute of Public Safety Research, Tsinghua University , National Leading Talent

**GUO Danhuai** Professor of the College of Information Science and Technology at Beijing University of Chemical Technology

**Host: GUO Danhuai** Professor of the College of Information Science and Technology at Beijing University of Chemical Technology

18:30-19:00	<p><b>The Crucial Role of Internet of Things (IoT) in Transforming from Urbanisation to Smart Cities</b></p> <p><b>Muhammad Arif Khattak</b> Assistant Professor of the US-Pak Center for Advanced Studies in Energy (USPCASE) at the University of Engineering &amp; Technology (UET), Peshawar PAKISTAN</p>
19:00-19:30	<p><b>Methodology for the Formation of A System-Forming Factor in the Construction and Operation of an Artificial Intelligence System in Security Theory</b></p> <p><b>Vyacheslav Burlov</b> Professor of the Peter the Great St. Petersburg Polytechnic University</p>
19:30-20:00	<p><b>Cities in Transition: Towards Resilience and Sustainability Some Experiences in Chile</b></p> <p><b>Waldo Bustamante</b> Professor of the School of Architecture Universidad Católica de Chile</p>

**Host: ZHANG Hui** Professor and Vice Dean of the Institute of Public Safety Research, Tsinghua University , National Leading Talent

20:00-20:30	<p><b>Deep Learning Based Urban Scene Similarity Assessment</b></p> <p><b>GUO Danhuai</b> Professor of the College of Information Science and Technology at Beijing University of Chemical Technology</p>
20:30-21:00	<p><b>Redefining Community: Is a "Sense of Community" a Catalyst for or a Deterrent to Community Participation</b></p> <p><b>Samaddar Subhajyoti</b> Associate Professor of the Disaster Prevention Research Institute, Kyoto University, Japan</p>
21:00-21:30	<p><b>Resilient-Smart City: Technologies and Governance</b></p> <p><b>ZHANG Hui</b> Professor and Vice Dean of the Institute of Public Safety Research, Tsinghua University , National Leading Talent</p>

————| About the Guests |————



ZHANG Hui

.....Chair/Guest Speaker/Host

Professor and Vice Dean of the Institute of Public Safety Research, Tsinghua University , National Leading Talent

ZHANG Hui is a member of the Advisory Committee of the ISO Technical Committee on Public Safety (ISO/TC292) and holds the position of Distinguished Professor appointed by the World Health Organization (WHO).



GUO Danhuai

.....Chair/Guest Speaker/Host

Professor of the College of Information Science and Technology at Beijing University of Chemical Technology

GUO Danhuai is a member of the Expert Committee on Big Data, China Computer Federation (CCF). He has led more than 10 sub-projects, including general programs funded by the National Natural Science Foundation of China, major research incubation programs funded by the National Natural Science Foundation of China. In addition, he has chaired sub-projects of the Torch Program implemented by the Ministry of Science and Technology and Informationization Projects supported by Chinese Academy of Sciences. He has published over 100 academic papers in international journals such as Lancet, Nature Communication, and Transaction in GIS, and top international conferences, including DASFAA, PAKDD, MDM, and ACM SIGSPATIAL.



Muhammad Arif Khattak

.....Guest Speaker

Assistant Professor of the US-Pak Center for Advanced Studies in Energy (USPCASE) at the University of Engineering & Technology (UET), Peshawar PAKISTAN

Muhammad Arif Khattak is a distinguished electrical engineer with significant contributions to the smart devices domain. His research is centered on creating advanced smart devices that integrate smoothly into everyday life, aiming to innovate across sectors and increase efficiency. Dr. Khattak's expertise includes a broad spectrum of electrical engineering fields, such as embedded systems, IoT, energy, and power system devices. He is particularly recognized for his work in intelligent systems that employ AI and machine learning to enhance user experience and system performance.



Vyacheslav Burlov

.....Guest Speaker

Professor of the Peter the Great St. Petersburg Polytechnic University

Vyacheslav Burlov received the degrees of specialist in flight theory (1972), Doctor of Technical Sciences in cybernetics and systems analysis (1979), and Professor of technical sciences in cybernetics and systems analysis (1999). Burlov is a well-known scientist in the fields of management, systems research, artificial intelligence systems, security, and modeling of processes of various physical natures. He is the author of more than 15 peer-reviewed books and 350 articles in various publishing houses in Russia and abroad. He is guided by the principle of "The goal of science is the search for unity." Burlov developed a theory of systems synthesis based on the law of preserving the integrity of an object. He is a certified expert in the quality of professional education of international class.



## —| About the Guests |—



**Waldo  
Bustamante**

### .....Guest Speaker

#### **Professor of the School of Architecture Universidad Católica de Chile**

Waldo Bustamante is a civil mechanical engineer from the University of Chile. He received a master's degree in Urban Development from the Catholic University of Chile and a PhD in Applied Sciences from the Université catholique de Louvain, Belgium. Waldo Bustamante is a Full Professor at the School of Architecture of the Pontifical Catholic University of Chile and Principal Professor and Director of the Center for Sustainable Urban Development, CEDEUS, at the Catholic University of Chile and the University of Concepción. His research is primarily dedicated to developing architectural design strategies that enhance the thermal and visual comfort of building occupants, considering energy efficiency criteria. Recently, he has been actively involved in assessing these strategies to facilitate the achievement of net zero energy buildings across diverse climatic conditions, as well as spearheading efforts to rehabilitate existing social housing in Chile. Concurrently, he collaborates with a research team focused on developing nature-based solutions for integration into buildings, including innovations like green roofs & walls and green urban areas to mitigate urban heat islands and heat waves.



**Samaddar  
Subhajyoti**

### .....Guest Speaker

#### **Associate Professor of the Disaster Prevention Research Institute, Kyoto University, Japan**

Samaddar Subhajyoti is an Associate Professor of the Disaster Prevention Research Institute (DPRI), Kyoto University, Japan. Due to his academic background and interests spanning a wide range of disciplines and sciences, Samaddar considers himself an undisciplined researcher. He is deeply interested in participatory implementation science, which examines how knowledge becomes practiced, what implementation means, and what its parameters are, as well as how we can develop tools and frameworks that can reduce disaster risks effectively and democratically. Local communities were actively engaged in his extensive, systematic, field-based empirical study in Ghana, Bangladesh, Japan, India, and other parts of Asia and Africa. His work was recognized with the “International Award Hazards 2000” in 2016. He is an Associate Editor of the IDRI International Journal. Samaddar teaches UG and PG courses on DRR, risk communication, and community planning.



June 23rd

## GAITC 2024: Big Data Platforms Supporting Sustainable Development

Sponsors: Chinese Association for Artificial Intelligence, IEEE China Council

Organizers: Aerospace Information Research Institute, Chinese Academy of Sciences

International Research Center of Big Data for Sustainable Development Goals, Zhejiang University

Future Sci-Tech City Academic Exchange Center Conference Room 1

18:30–21:50

Time	Topics	Guest Speakers
<p><b>Chair:</b>  <b>DU Xiaoping</b> Professor at the Aerospace Information Research Institute, Chinese Academy of Sciences, Deputy Director of the Big Data Technology Department at the International Research Center of Big Data for Sustainable Development Goals  <b>DU Zhenhong</b> Dean and Qiushi Distinguished Professor of School of Earth Sciences, Zhejiang University (ZJU), Recipient of the National Science Fund for Distinguished Young Scholars</p> <hr/> <p><b>Host: DU Xiaoping</b> Professor at the Aerospace Information Research Institute, Chinese Academy of Sciences, Deputy Director of the Big Data Technology Department at the International Research Center of Big Data for Sustainable Development Goals</p>		
18:30-19:00	<p><b>Platform and Applications for Geoscience Knowledge Graph</b>  <b>WANG Xinbing</b> Distinguished Professor at Shanghai Jiao Tong University                      Recipient of the National Science Fund for Distinguished Young Scholars</p>	
19:00-19:30	<p><b>Exploration on the Construction and Application of Large-scale Models in the Field of Ecological Environment</b>  <b>HUANG Mingxiang</b> Director and Professor of the Big Data Development Department at the Information Center of the Ministry of Ecology and Environment</p>	
19:30-20:00	<p><b>Technologies and Practices for the Deep-time Digital Earth Platform</b>  <b>DU Zhenhong</b> Dean and Qiushi Distinguished Professor of School of Earth Sciences, Zhejiang University (ZJU), Recipient of the National Science Fund for Distinguished Young Scholars</p>	
<p><b>Host: DU Zhenhong</b> Dean and Qiushi Distinguished Professor of School of Earth Sciences, Zhejiang University (ZJU), Recipient of the National Science Fund for Distinguished Young Scholars</p>		
20:00-20:30	<p><b>New-Generation Development and Practices of Big Data Storage Technology for the AI Era</b>  <b>YANG Zesheng</b> Chief Big Data Planner at Huawei</p>	
20:30-21:00	<p><b>The Blockchain Based Industrial IoT and Hyperspectral Data Using Deep Learning for Sustainable Development</b>  <b>Shahzad Sarfraz</b> Professor and Director of FAST-National University of Computer and Emerging Sciences, CFD Campus, Pakistan</p>	
21:00-21:30	<p><b>Big Earth Data Platform for Sustainable Development Applications</b>  <b>DU Xiaoping</b> Professor at the Aerospace Information Research Institute, Chinese Academy of Sciences, Deputy Director of the Big Data Technology Department at the International Research Center of Big Data for Sustainable Development Goals</p>	
21:30-21:50	<p><b>From Data to Data+AI: Observations and Reflections on the third Evolution of Data Infrastructure</b>  <b>LI Ruibo</b> Technical Partner of Yunqi Tech</p>	



## —| About the Guests |—



**DU Xiaoping**

### .....Chair/Guest Speaker/Host

Professor at the Aerospace Information Research Institute, Chinese Academy of Sciences, Deputy Director of the Big Data Technology Department at the International Research Center of Big Data for Sustainable Development Goals

DU Xiaoping serves as a council member of the Marine Big Data and High Performance Computing Branch of the Pacific Society of China (PSC). His research focuses on Digital Earth, Big Earth Data, and remote sensing image intelligent interpretation. He led the site selection and optimization system technology for the Five-hundred-meter Aperture Spherical Radio Telescope (FAST) and has been awarded the United Nations’ “Global Pulse Award,” the Special Prize for Scientific and Technological Progress in Surveying and Mapping in China, and the Second Prize in the First Air Force Aviation Creative Challenge Competition. Du has directed over 10 projects including the Strategic Priority Research Program of Chinese Academy of Sciences and the National Key R&D Program. He has published over 80 papers and co-authored four monographs.



**DU Zhenhong**

### .....Chair/Guest Speaker/Host

Dean and Qiushi Distinguished Professor of School of Earth Sciences, Zhejiang University (ZJU)  
Recipient of the National Science Fund for Distinguished Young Scholars

DU Zhenhong is the director of the Key Laboratory of Resources and Environmental Information System of Zhejiang Province. He has long been engaged in teaching and research in geoscience big data and Earth systems, remote sensing and geographic information systems, spatiotemporal big data and artificial intelligence. He has led more than 10 national scientific research projects and has attained 4 Scientific and Technological Progress Awards as the principal investigator at the provincial and ministerial levels. In addition, DU has won the second prize (3/10) of the National Prize for Progress in Science and Technology , etc.



**WANG  
Xinbing**

### .....Guest Speaker

Distinguished Professor at Shanghai Jiao Tong University  
Recipient of the National Science Fund for Distinguished Yong Scholars

WANG Xinbing serves as the chairman of the ACM China Council. He was the former vice dean of the School of Electronic Information and Electrical Engineering, and the former executive director of the John Hopcroft Center for Computer Science at Shanghai Jiao Tong University. He is an editor for several international journals, including IEEE Transactions on Information Theory and IEEE/ACM Transactions on Networking. He has received awards such as the China Computer Federation Young Scientist Award, the IEEE ComSoc Asia Pacific Outstanding Paper Award, the IEEE ComSoc Asia Pacific Best Young Researcher Award, the IEEE ComSoc Distinguished Service Award, the 12th recipient of the Henry Fok Foundation, Shanghai Pujiang Talent Award, and the first IT Rising Star of the Shanghai Chapter of the China Computer Federation YOCSEF.

——| About the Guests |——



**HUANG**  
Mingxiang

.....Guest Speaker

**Director and Professor of the Big Data Development Department at the Information Center of the Ministry of Ecology and Environment**

HUANG Mingxiang has been engaged in the research on the ecological environment big data, ecological environment information technology, and digital ecological civilization applications. He has led more than 10 national-level scientific research projects and has undertaken several major information technology projects for the Ministry of Ecology and Environment. He has published over 40 papers, and 4 books, and has been granted 2 invention patents and registered 8 software copyrights. He has received several awards including two first prizes and two third prizes of minister-level science and technology awards.



**YANG**  
Zesheng

.....Guest Speaker

**Chief Big Data Planner at Huawei**

YANG Zesheng has been extensively involved in cloud computing, big data platforms, and big data storage product planning and solution design. He has led or participated in big data construction, consulting, and planning for customers in various industries, including telecommunications, finance, and government. With over a decade of industry practice, he has accumulated rich experience and is familiar with the current state of big data business and development. Yang has a profound understanding of big data technology trends and the planning and construction of enterprise big data platforms.



**Shahzad**  
Sarfraz

.....Guest Speaker

**Professor and Director of FAST-National University of Computer and Emerging Sciences, CFD Campus, Pakistan**

Shahzad Sarfraz is engaged in Computer Science and Geospatial Technologies, where he worked on core thematic areas encompassing ICT tools for Health, Agriculture, and associated GIS-based applications. His research interests extend to leveraging remote sensing and GIS-based application development using machine learning and other blended technologies. His academic contributions are substantial, encompassing 60+ journal and conference papers. His global exposure extends to his tenure as a visiting professor in the Digital Image Processing lab at the National Institute of Informatics (NII), Tokyo, Japan. He has actively participated in seminars and workshops, both nationally and internationally, fostering collaborative research in more than ten countries. He is a member of esteemed international societies such as IEEE, ACM, ISPRS, Canadian Remote Sensing, International Association of Chinese Professionals in GIS, and more. Dr. Shahzad also serves as a resource person for the WHO Pakistan, facilitating capacity-building workshops.



**LI**  
Ruibo

.....Guest Speaker

**Technical Partner of Yunqi Tech**

LI Ruibo is a member of the Open Source Technical Committee of the China Institute of Communications. He has been dedicated to R & D work of distributed systems and big data platforms for more than 10 years. He has been responsible for promoting the company's ecological construction of products Lakehouse, real-time upgrades of the Studio, and other R & D work. He was a senior technical expert of Alibaba Cloud and led the R&D work of Lakehouse.



June 23rd

# GAITC 2024: Sustainable Development of Oceans and Coastal Zones

Sponsors: Chinese Association for Artificial Intelligence, IEEE China Council  
Organizers: Fuzhou University, The University of Hong Kong

📍 Future Sci-Tech City Academic Exchange Center Conference Room 2

🕒 18:30–21:30

Time	Topics	Guest Speakers
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**Chair:**

**SU Hua** Professor and Assistant Dean at the Academy of Digital China, Fuzhou University  
Deputy Director of the National Engineering Research Center of Satellite Spatial Information Technology and Applications

**ZHANG Hongsheng** Assistant Professor at the University of Hong Kong, Recipient of the National Science Fund for Excellent Young Scholars (Hong Kong and Macau)

**Host: ZHANG Hongsheng** Assistant Professor at the University of Hong Kong, Recipient of the National Science Fund for Excellent Young Scholars (Hong Kong and Macau)

18:30-19:00	<b>New Methods in Coastal and Riverine Vulnerability</b> <b>Komali Kantamaneni</b> Senior Research Fellow at the University of Central Lancashire (UCLan) in the United Kingdom
19:00-19:30	<b>Digital Arctic Environment and Information Services</b> <b>QIU Yubao</b> Research professor, Aerospace Information Research Institute, Chinese Academy of Sciences (AIR-CAS)
19:30-20:00	<b>Intelligent Detection Method for Typical Marine Objects in Coastal Remote Sensing Images</b> <b>HUANG Zhanchao</b> Assistant Professor, The Academy of Digital China, Fuzhou University

**Host: SU Hua** Professor and Assistant Dean at the Academy of Digital China, Fuzhou University  
Deputy Director of the National Engineering Research Center of Satellite Spatial Information Technology and Applications

20:00-20:30	<b>Remote Sensing of Coastal Environments</b> <b>ZHANG Hongsheng</b> Assistant Professor at the University of Hong Kong, Recipient of the National Science Fund for Excellent Young Scholars (Hong Kong and Macau)
20:30-21:00	<b>Mapping Global Mangrove Forests</b> <b>JIA Mingming</b> Associate Professor of Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences
21:00-21:30	<b>Relative Sea Level Changes and Coastal Flood Risks: Uncertainty and Adaptation</b> <b>FANG Jiayi</b> Associate Professor, School of Information Science and Technology, Hangzhou Normal University

————| About the Guests |————



SU Hua

.....Chair/Host

Professor and Assistant Dean at the Academy of Digital China, Fuzhou University  
 Deputy Director of the National Engineering Research Center of Satellite Spatial Information Technology and Applications  
 SU Hua serves as IEEE Senior Member, deputy secretary-general of the Fujian Remote Sensing Society, and recipient of the Fujian Provincial Science Fund for Distinguished Young Scholars. His primary research focuses on Ocean Remote Sensing and Spatio-Temporal Data Mining. He has published nearly 60 academic papers and has been authorized 5 national invention patents. SU has led over 10 national and provincial-level research projects. His achievements have been included in the Ministry of Foreign Affairs’ “Earth Big Data Supporting Sustainable Development Goals Report”, which was adopted by the IPCC Sixth Assessment Report. He serves as a youth editorial board member, guest editor for multiple international academic journals, and reviewer for over 30 SCI journals.



ZHANG Hongsheng

.....Chair/Guest Speaker/Host

Assistant Professor at the University of Hong Kong, Recipient of the National Science Fund for Excellent Young Scholars (Hong Kong and Macau)  
 ZHANG Hongsheng’s research and teaching primarily focus on coastal remote sensing and sustainable coastal development. He has published over 70 SCI/SSCI papers and led over 20 projects funded by the National Natural Science Foundation of China and the University Grants Committee of Hong Kong. He is vice chair of the IEEE Geoscience and Remote Sensing Society (GRSS) Hong Kong Chapter and associate editor for IEEE Transactions on Geoscience and Remote Sensing (TGRS) and Journal of Applied Remote Sensing (JAG), among other international journals in the field of remote sensing. In addition, he is the winner of multiple awards, including the ACM SIGSPATIAL China Chapter Rising Star Award and the Remote Sensing Youth Award from the National Remote Sensing Center of the Ministry of Science and Technology of China.



Komali Kantamaneni

.....Guest Speaker

Senior Research Fellow at the University of Central Lancashire (UCLan) in the United Kingdom  
 Komali Kantamaneni is a co-director of UN-SPIDER (United Nations Platform for Space-based Information for Disaster Management and Emergency Response) and UK-RSO (United Kingdom Regional Support Office). She is a senior coastal scientist and currently works as a senior research fellow at the University of Central Lancashire (UCLan) in the United Kingdom. She is a theme lead of GRACE (an interdisciplinary research center). Her research focuses mainly on coastal vulnerability, natural disasters, natural hazards, climate change, water infrastructure, and GIS mapping. Dr. Kantamaneni completed her PhD at the University of Wales Trinity Saint David in Swansea, UK. She engages in interdisciplinary and multidisciplinary projects such as coastal and water infrastructures, natural disasters, and risk assessment and management. She is a principal investigator for several international projects funded by the British Council, Newton Fund, and GCRF (Global Challenges Research Fund). She is widely published and has been an invited speaker and presenter at many major and prestigious international conferences.



## —| About the Guests |—



**QIU Yubao**

### .....Guest Speaker

**Research professor, Aerospace Information Research Institute, Chinese Academy of Sciences (AIR-CAS)**  
QIU Yubao is engaged in research like microwave remote sensing, snow and Arctic environment remote sensing, and digital environment and sustainable development. He has undertaken many national key research and development projects and Important National Science and Technology Specific Projects, etc. He has published more than 100 papers and obtained and applied for more than 10 invention patents. He was awarded the first prize of the Tibet Meteorological Bureau, the second prize of the Scientific and Technological Progress of the Tibet Autonomous Region, and the Individual Achievement Award of the ScienceDB Scientific Data Award. He is also the director of the Digital Environment Research Office of the International Research Center of Big Data for Sustainable Development Goals and a member of the Arctic Sustainable Observation Network (ASON) in China.



**HUANG Zhanchao**

### .....Guest Speaker

**Assistant Professor, The Academy of Digital China, Fuzhou University**  
HUANG Zhanchao is an assistant professor at the Academy of Digital China, Fuzhou University. His research focuses on intelligent interpretation of remote sensing images and object detection and recognition. Dr. Huang has published 17 academic papers, including 8 high-impact journal and conference papers as the first author or corresponding author (which includes 4 ESI highly cited papers and 1 hot paper). He also holds 7 granted invention patents. His research achievements were recognized with the First Prize for Technical Invention by the Chinese Institute of Command and Control(CICC) in 2023.



**JIA Mingming**

### .....Guest Speaker

**Associate Professor of Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences**  
JIA Mingming conducts remote sensing research on coastal wetlands and has been selected for the Youth Innovation Promotion Association, Chinese Academy of Sciences and the Hong Kong Special Administrative Region Government's Plan to Attract and Support Young Talents from Overseas. She serves as an associate editor for Frontiers in Marine Science and an editorial board member for the Journal of Remote Sensing(Chinese). She has published over 50 papers as the first or corresponding author, including 32 SCI papers. Her research has been highly cited, with six papers included in ESI Highly Cited Papers and two papers included in ESI Hotspot Papers. She has also been granted a first prize in the Jilin Provincial Natural Science Awards.



**FANG Jiayi**

### .....Guest Speaker

**Associate Professor, School of Information Science and Technology, Hangzhou Normal University**  
FANG Jiayi specializes in research on the mechanisms of natural disasters, disaster risk assessment, and sustainable development. She visited the International Institute for Applied Systems Analysis (IIASA) and the University of Southampton, UK for nearly two years. Dr. Fang has published over 40 papers in renowned journals such as Science, Nature Climate Change, and Nature Communications. Additionally, Dr. Fang serves as a member of the Natural Disaster Risk and Integrated Disaster Reduction Professional Committee of the China Geographical Society, and has been recognized with the title of "Sailing Talent" in Shanghai and the designation of Advanced Worker by the Zhejiang Geographical Society. Her research was also honored with the inclusion of "Outstanding Paper by Young Science and Technology Workers in Zhejiang Province for the year 2023."