

The 6th International Forum on Big Data for Sustainable Development Goals (FBAS 2026)

Session Proposal

<i>Session Title</i>	AI for Climate-Resilient and Sustainable Cities	
<i>Session Chair(s)</i>	<i>Name</i>	Hongsheng Zhang ¹ ; Bin Chen ² ; Amber Ren ³ ; Yuyu Zhou ¹
	<i>Affiliation</i>	¹ The Department of Geography, The University of Hong Kong, Hong Kong SAR, China ² Division of Landscape Architecture, The University of Hong Kong, Hong Kong SAR, China ³ United Nations Environment Programme
	<i>Profile (200-word limit)</i>	This chair team combines expertise in artificial intelligence, urban systems, climate science, and sustainability policy, offering strong interdisciplinary leadership across research, applied innovation, and stakeholder engagement. The session will bridge frontier AI methodologies with pressing city-scale climate challenges, including environmental monitoring, emissions management, resilience planning, and equitable adaptation. The chairs are well positioned to facilitate dialogue among scientists, planners, government agencies, and industry partners, and to translate technical advances into actionable pathways that support city-level SDG implementation.
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<i>Preferred Topics</i>	AI Empowering Sustainable City Development; Low-carbon and Renewable Energy in Urban Environments; Urban Green Spaces and Biodiversity Conservation; Smart Cities and Digital technologies for Sustainability; Climate Resilience and Adaptation in City	

<p><i>Session Description</i> <i>(200-word limit)</i></p>	<p>Urbanization and climate change are reshaping our planet. Cities are increasingly exposed to intensifying heat stress, flooding, deteriorating air quality, infrastructure vulnerability, and unequal climate risk, creating urgent demands for improved urban monitoring and climate adaptation. Recent advances in multimodal foundation models, geospatial AI, and urban digital twins offer unprecedented opportunities for high-resolution environmental monitoring, climate risk forecasting, scenario simulation, and targeted mitigation and adaptation strategies. Building on these developments, this session will highlight transferable AI methods across key domains of urban research under climate change, including urban environment, climate, carbon emission, land use, mobility, energy systems, and socio-economic dynamics. It aims to foster cross-sector dialogue among academia, city agencies, and industry, identifying actionable pathways for mitigation, adaptation, and city-level climate action aligned with the SDGs.</p>
<p><i>Expected outcomes</i> <i>(50-word limit)</i></p>	<p>Expected outcomes include (1) state-of-the-art AI technologies for urban and climate studies, including transferable methods and foundation models; (2) insights into the latest advances in urban studies spanning the urban environment, climate, land use, carbon emission, mobility, energy systems, and socio-economic dynamics; and (3) emerging climate-related applications that support mitigation, adaptation, and sustainable development.</p>

Please submit filled session proposal to fbas@cbas.ac.cn before **April 20, 2026**