

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

Session Proposal Template

<i>Session Title</i>	<p>大数据与人工智能赋能的可持续发展方法与路径</p> <p>Methods and Pathways for Sustainable Development Empowered by Big Data and Artificial Intelligence</p>	
<i>Session Chair(s)</i>	<i>Name</i>	Xiaowei Nie Xiaoduo Pan
	<i>Affiliation</i>	Institute of Tibetan Plateau Research, Chinese Academy of Sciences
	<i>Profile (200-word limit)</i>	<p>Prof. Dr. Xiaowei Nie is a professor at the Institute of Tibetan Plateau Research, Chinese Academy of Sciences., and closely focuses the region sustainability of AI data obtain and assessment, proposing the ecosystem services theory around the sustainable development goals SDG, conducting research on ecological monitoring technology based on bionic eyes, and carrying out multi-point observations of wide-area high-precision monitoring in the wetlands of the Qinghai-Tibet Plateau and the Yarlung Tsangpo River Basin. He has generated data products through the National Tibet Plateau Science Data Center to support the ecological civilization, highland construction, and high-quality development of Tibet. He has undertaken more than 10 national and provincial-level projects, published three monographs in the past five years, and more than 30 papers in academic journals such as Stoten, Journal of Cleaner Production, and Frontiers in Plant Science, of which 17 have been included in SCI, SSCI, CSSCI, etc. (12 as the first author/corresponding author). As the lead writer, he has composed over 20 policy research reports on topics such as scientific and technological cooperation under the Belt and Road Initiative, ecological protection of the Qinghai - Tibet Plateau, epidemic prediction, and ecological protection of the cryosphere. These reports have received instructions from central leaders and leaders</p>

		<p>of the Tibet Autonomous Region more than 10 times. Prof. Dr. Xiaoduo Pan is a distinguished research fellow and doctoral supervisor at the Institute of Tibetan Plateau Research, Chinese Academy of Sciences. Her research focuses on regional climate change, data assimilation, data integration, and big data analysis. She has established a framework for assimilating regional climate model precipitation remote sensing products, used for assimilating precipitation and snow products from multiple sources of passive and active microwave remote sensing, such as Doppler radar data, FY-series, GPM, and MODIS. She has also developed high spatiotemporal resolution long-term near-surface atmospheric data for the Heihe River Basin, which is used to provide driving data for the model development and operation of the "Integrated Simulation and Prediction of Water-Ecology-Economy System in the Heihe River Basin" project funded by the National Natural Science Foundation of China. Dr. Pan has integrated characteristic data sets in the fields of remote sensing, cryosphere, hydrology, and ecology for the Tibetan Plateau and even the terrestrial Earth's surface, providing data services for Earth system science and regional sustainable development on the Tibetan Plateau. Her research results have been published in international mainstream journals such as BAMS and JGR, with over 100 publications to date. Has participated in the compilation of 6 academic works and the drafting of 9 consulting suggestions. Three of these consulting suggestions received instructions from national or local leaders, and one was selected for the information digest of the General Office of the Central Committee and the General Office of the State Council. In the past five years, has chaired 7 projects, such as research topics of national key R & D programs.</p>
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<i>Preferred Topics</i>	大数据与 AI 赋能的脆弱环境区域文化遗产保护与智慧文旅/Big Data and AI-Driven Cultural Heritage Conservation and Smart Tourism in Environmentally Fragile Regions
<i>Session Description</i> <i>(200-word limit)</i>	<p>This session brings together researchers and practitioners to examine how data and AI can advance sustainable development , particularly in fragile environments and cultural heritage protection, amid global digital transformation. Recent breakthroughs in AI and big data create unprecedented opportunities to accelerate the achievement of the Sustainable Development Goals (SDGs).</p> <p>The session focuses on data- and AI-driven methods for SDG monitoring, evaluation, and decision-making, with applications in environmental, socioeconomic, and urban systems, as well as cultural heritage conservation and smart tourism development. We welcome contributions addressing data collection and integration, advanced analytical methods, and practical solutions that improve the efficiency and timeliness of sustainability assessments, especially in data-scarce and environmentally sensitive regions.</p> <p>We welcome studies from diverse regions and domains, encouraging cross-regional lessons and transferable methodologies—with particular emphasis on fragile environmental regions, including ecosystem conservation, water resource management, cultural heritage protection, and smart tourism development—with no geographic limitations.</p> <p>The session will advance interdisciplinary collaboration and global partnerships, address challenges including data fragmentation, interoperability, and capacity gaps, and explore pathways toward inclusive, coordinated sustainable development in the post-2030 era, with a focus on supporting heritage preservation and sustainable tourism in vulnerable regions.</p>
<i>Expected outcomes</i> <i>(50-word limit)</i>	The session will promote knowledge exchange, strengthen collaboration and partnerships, and highlight data- and AI-enabled approaches for improving SDG monitoring, evaluation, and implementation, as well as cultural heritage protection and smart tourism practices.

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