

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

Session Proposal Template

<i>Session Title</i>	Digital Intelligence-Driven Sustainable Development of Mining Eco-Remote Sensing and Resource Circularity	
<i>Session Chair(s)</i>	<i>Name</i>	Lin Mengjing
	<i>Affiliation</i>	Fuzhou University
	<i>Profile (200-word limit)</i>	Associate Professor Lin Mengjing has long been engaged in research on urban/mining ecological assessment and its relationship with human health. She has mastered technologies such as remote sensing, geographic information systems (GIS), and machine learning, and is able to use these tools to acquire and analyze spatial image data, textual data, and statistical data. She also employs multimodal data combined with different parameters for scenario simulation and prediction. In the past two years, she has led major projects of the Fujian Provincial Social Science Foundation and key scientific research projects for young and middle-aged educators in Fujian Province, relevant achievements have been published as first-author papers in authoritative domestic and international journals such as the International Journal of Sustainable Development & World Ecology and Acta Ecologica Sinica.
	<i>e-mail</i>	linmengjing@fzu.edu.cn
<i>Contact Person</i>	<i>Name</i>	Lin Mengjing
	<i>e-mail</i>	linmengjing@fzu.edu.cn

<i>Preferred Topics</i>	AI and Big Data for SDG Green Transformation
<i>Session Description</i> <i>(200-word limit)</i>	<p>This session focuses on the intersection of mining ecology, remote sensing big data, and resource circularity to address the unique challenges of sustainable development in mining-relevant regions.</p> <p>Mining activities often lead to land degradation, water stress, biodiversity loss, and social imbalances, which hinder progress toward multiple SDGs. Recent advances in satellite remote sensing, AI-based change detection offer unprecedented opportunities to assess, model, and restore mining landscapes. Meanwhile, resource circularity can transform mining waste into secondary resources, reducing environmental footprints and generating local economic value. The session will present cutting-edge research and case studies on:</p> <ol style="list-style-type: none"> (1) High-resolution ecological monitoring of abandoned and active mines using multi-source remote sensing data; (2) AI-driven prediction of mining-induced environmental risks; (3) Policy and frameworks that bridge remote sensing science with on-the-ground action. <p>We encourage contributions from early-career researchers and practitioners working in Global mining regions. The session aims to co-design actionable pathways that leverage digital technologies to turn mining challenges into sustainability opportunities.</p>
<i>Expected outcomes</i> <i>(50-word limit)</i>	<ol style="list-style-type: none"> (1) Propose a scalable "AI + remote sensing" ecological monitoring scheme for mining areas; (2) Propose circular resource indicators for SDG monitoring; (3) Generate a set of policy recommendations for integrating digital solutions into mining region sustainability plans.

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