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

Session Proposal Template

Session Title	AI4Science in Marine Fishery: Evolution and Forecasting	
Session Chair(s)	*Name*	Xinjun Chen （陈新军）, Bin Liu （柳彬）
	Affiliation	Shanghai Ocean University （上海海洋大学）
	Profile (200-word limit)	Professor Chen Xinjun Professor and Doctoral Supervisor at Shanghai Ocean University. As a distinguished leader in China's distant-water squid jigging fishery science and technology, Professor Chen has dedicated his career to the research and development of oceanic fishery resources. He currently serves as the Director of the National Distant-water Fishery Engineering Technology Research Center. He has led numerous major national research projects and

		has been honored with multiple national and provincial-level awards for both research and teaching. Professor Chen has achieved world-leading breakthroughs in fishery resource distribution and fishing ground forecasting, and been recognized as a “Highly Cited Chinese Researcher” for several consecutive years. He has made outstanding contributions to the high-quality development of China’s distant-water fisheries. Associate Professor Liu Bin Associate Professor and Master’s Supervisor at Shanghai Ocean University. His research focuses on AI-driven marine big data analysis and intelligent fishery forecasting algorithms. He has published over 20 high-level SCI-indexed papers in these

		specialized fields.
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Contact Person	*Name*	Bin Liu
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Preferred Topics	Physics-Informed Deep Learning for Ocean Dynamics, Interpretable AI in Habitat Suitability Index Modeling, Machine Learning Architectures in Fishery, Multi-source Marine Big Data Fusion, Marine Foundation Models, Socio-Ecological Systems and SDGs, Large Language Model and Agentic AI in Fishery, Edge-AI Applications	
Session Description (200-word limit)	This session explores the paradigm shift in marine science catalyzed by AI4Science (AI4S), focusing on the dynamic evolution of global fishery resources and advancements in intelligent forecasting systems. We invite contributions that integrate AI architectures with physical oceanography and marine ecological mechanisms to address complex challenges in Habitat Suitability Index (HSI) modeling and stock	

	assessment. By leveraging multi-source marine big data, this session emphasizes the transition from empirical models to interpretable, data-driven scientific discovery. Key discussions will center on methodological innovation, technological breakthroughs, and practical implementation. Ultimately, this session aims to provide systemic solutions for SDG 2 (Zero Hunger) and SDG 14 (Life Below Water), fostering sustainable fishery management and climate resilience through cutting-edge digital intelligence.
Expected outcomes (50-word limit)	Expected outcomes include robust HSI modeling and stock assessment frameworks, systemic solutions for SDG 2 and 14, and the integration of Agentic AI with marine big data to enhance global sustainable fishery management and climate resilience.

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