

LSGI & RCAIG RESEARCH SEMINAR

AI for Climate-Environment Prediction and Modeling

 **20 MAR 2025 (THU)**

 **4:00 - 5:00 PM**

 **Z211, POLYU**

 **ENGLISH**

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Professor

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ABSTRACT

With the increasing popularity and rapid advancements in artificial intelligence (AI), numerous research fields have integrated AI techniques to enhance scientific understanding and practical applications. Climate and environmental sciences, in particular, have benefited significantly from AI-driven approaches in data analysis, predictive modeling, and decision-making support. This talk presents an overview of various AI applications aimed at predicting and modeling critical climate and environmental parameters. Furthermore, this talk explores the role of AI in remote sensing and its expanding applications across different Earth system components, including the atmosphere, land, and ocean. The discussion highlights recent advancements, emerging trends, and challenges in applying AI to remote sensing data for environmental monitoring and climate prediction.

BIOGRAPHY

Prof. Im is a professor and the director of Intelligent Remote sensing and geospatial Information Science (IRIS) Lab in the Department of Civil, Urban, Earth, and Environmental Engineering at UNIST, South Korea. He is also affiliated with the Graduate School of Artificial Intelligence and Graduate School of Carbon Neutrality. He also worked as an assistant professor at State University of New York College of Environmental Science and Forestry, NY, USA between 2007-2012. His research includes environmental remote sensing and artificial intelligence modeling focusing on disaster monitoring and prediction to broaden and deepen the understanding of the Earth systems under climate variability and change.

Moderator: Prof. Qihao WENG, Chair Professor of Geomatics and Artificial Intelligence, LSGI

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