

SEMINAR

RECENT ADVANCES IN ARTIFICIAL INTELLIGENCE OCEANOGRAPHY



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Xiaofeng Li is an IEEE Fellow, Fellow of the Asia-Pacific Artificial Intelligence Association, and Fellow of the Electromagnetics Academy. He received his bachelor's degree from Zhejiang University and his Ph.D. degree from North Carolina State University.

Dr. Li worked at the National Oceanic and Atmospheric Administration (NOAA) in the USA for more than 20 years, where his research focused on satellite oceanography, big data, and artificial intelligence. He is currently a Research Professor at the Institute of Oceanology, Chinese Academy of Sciences, serving as Chief Scientist of Artificial Intelligence Oceanography and Chief Engineer of the Big Data Center.

He also serves as Associate Editor of IEEE Transactions on Geoscience and Remote Sensing (TGRS), Editor of JGR: Machine Learning and Computation, and Executive Editor-in-Chief of Journal of Remote Sensing. He has edited and published three books and authored more than 300 SCI-indexed journal papers.

ABOUT THE SEMINAR

Artificial intelligence (AI) has become a major driving force behind the new wave of scientific and technological innovation, particularly through its close integration with big data technologies. In oceanography, AI offers significant advantages for analyzing and understanding the complex ocean environment. Traditional oceanographic modeling has often relied heavily on prior knowledge and empirical assumptions. In contrast, data-driven approaches now enable researchers to transform massive volumes of observational data into more reliable and efficient scientific information. This transformation is opening new opportunities for deeper investigations into oceanic phenomena and processes. This lecture will introduce recent advances in the application of AI technologies in oceanography, including developments in AI-based ocean forecasting, remote sensing, data reconstruction, and the emerging field of large ocean models.



**ON TUESDAY,
12 MAY**



<https://meet.google.com/vea-bkkv-msy>



11:00 - 12:00 AM CEST



South Chapter - Italy Section