




Artificial Intelligence for the Earth: Geospatial Foundation Models

Course Overview

Geospatial Foundation Models (GFM) bring the power of AI to satellite imagery, enabling a range of geospatial applications, from land use mapping to disaster response.

This course blends theory with hands-on training using two cutting-edge models: **Prithvi-2.0** (NASA-IBM) and **TerraMind** (ESA-IBM).

You Will Gain

-  A theoretical background on geographic information and earth observation
-  An understanding of the deep learning theory behind GFM
-  Practical experience with Prithvi-2.0 and TerraMind

Instructors



Prof. Maria
Antonia Brovelli



Prof. Polychronis
Kolokousis



Dr. Vasil
Yordanov



Federico Giannini;
PhD Student



Julia Leonardi;
PhD Student



Qiongjie Xu;
PhD Student



Dates

- 6.10.2025 16:00-20:00
- 16.10.2025 16:00-20:00
- 22.10.2025 16:00-20:00
- 27.10.2025 16:00-20:00



Duration

16 hours total



Prerequisites

- Good Python skills;
- Knowledge of Machine Learning fundamentals



Location

Milano Città Studi
(Politecnico di Milano;
Campus Leonardo)



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Computer Science
and Engineering

GEINFORMATICS