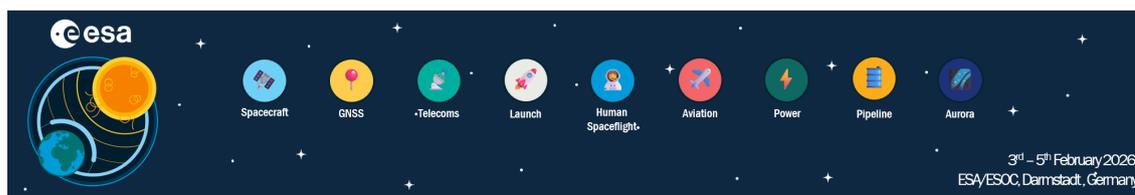


Session Program

3-5 Feb 2026



ESA Space Weather Service Network Workshop 2026

Machine learning in the ESA Space Weather Service Network

ESOC
Robert-Bosch-Strasse 5, 64293 Darmstadt, Germany

Tuesday 3 February

11:00

Machine learning in the ESA Space Weather Service Network

Session | **Location:** ESOC, VIGIL room (HIV-HV-HVI)

11:00-11:05 **Welcome and Introduction**

Speakers

CONTARINO, Lidia, SUSINO, Roberto

11:05-11:20

Evaluating Transformer Models for Solar Flare Forecasting across Data Modalities

Speaker

RIGGI, Simone

11:20-11:35

SunSCC: Segmenting, Grouping and Classifying Sunspots from Ground-Based Observations Using Deep Learning

Speaker

DELOUILLE, V.

11:35-11:50

Bridging Data and Operational Prediction in Space Weather: Machine-Learning Models, Data Pre-Processing, and Evaluation

Speaker

BERNOUX, G.

11:50-12:05

Physics-Based Artificial Intelligence for Operational Space Weather Forecasting: The May 2024 Superstorm

Speaker

GUASTAVINO, Sabrina

12:05-12:20

AI-Based Prediction and Reconstruction of Solar Surface Magnetic Field Data and Their Applications

Speaker

JEONG, Hyun-jin

12:20-12:30

General Discussion

12:30