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International Beacon Satellite Symposium 2025 | (smr 4068)

Friday 14 November 2025

A7 - Data Science (Advanced Statistical and Machine Learning Techniques) Applied to Ionospheric Studies - (09:40-13:40)

For oral presentations rules please click on [THIS LINK](https://bss2025.ingv.it/authors-guidelines/).

time	title	presenter
09:40	Autonomous Detection and Characterization of Large-Scale Ionospheric Disturbances Using GNSS TEC Observations and Image Processing	MARCO GUERRA
10:00	Automated Patterns and Anomalies Detection in Ionospheric Data: Supervised and Unsupervised ML Approaches	YENCA OLIVIA MIGOYA ORUE
10:20	Deep Learning for Real-Time Identification of Ionospheric Signatures of Earthquakes and Tsunamis	MICHELA RAVANELLI
10:40	Coffee break	
11:20	Swarm-VIP-Dynamic: Models for Ionospheric Variability, Irregularities Based on the Swarm Satellite Data	JAROSLAV URBAR
11:40	Neural networks uncover an extreme two-stage response of ionospheric electron temperature overshoot to geomagnetic storms	ARTEM SMIRNOV
12:00	An Explainable Machine Learning Model for Large-Scale Travelling Ionospheric Disturbances Forecasting	VINCENZO VENTRIGLIA
12:20	Closing and Lunch	