

## SESSION 2.9 - ADVANCED NUMERICAL MODELLING

### **Invited speech** - AN I4.0 TECHNOLOGY FOR SPACE WEATHER USING SATELLITE DATA

Space weather can be rather intriguingly interpreted as an Industry 4.0 issue. One of the most systematic attempt to deal with space weather according to I4.0 perspective is probably represented by the Horizon 2020 research and innovation action “Flare Likelihood and Region Eruption Forecasting (FLARECAST)” which realized a technological platform for machine learning algorithms with the objective of providing the space weather community with a prediction service for solar flares. FLARECAST service shows how the methods implemented in the platform allow both flare prediction and a quantitative assessment of how the information contained in the space data utilized in the analysis may impact the forecasting process.

**Michele Piana**

*(University of Genova, Dept. of Mathematics , Italy)*

piana@dima.unige.it