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SPACE WEATHER WORKSHOP

call for papers

Space Weather is a natural hazard often exposing extreme environments in the near-Earth space and at ground to additional threats. These include:

- radiation effects affecting space, aviation and, under severe geospace conditions, even ground assets;
- disturbances to radio-navigation based on Global Navigation Satellite Systems (GNSSs) and to communication systems;
- increased satellite drag resulting into enhanced probability of collisions with space debris;
- geomagnetically induced currents (GICs) impacting power grids, transports and oil/gas pipelines.

At the same time, communication systems and wireless sensing offer a cheap and persistent tool to monitor short- and long-term Space Weather phenomena, contributing to the overall understanding of the complex Earth-space system. The workshop aims at pin-pointing the state-of-the art technologies and initiative facing the Space Weather threats in extreme environments, with a particular focus on space and aviation domains.

Contributions from people involved in Space Weather are welcome, including, but not limiting to planetary Space Weather issues related to GNSS-based navigation, aviation, space radiation.

Accepted contributions (subject to [IEEE WiSEE guidelines](#) for paper and poster submissions):

- full-length research papers (up to 6 pages, included in IEEE Xplore package);
- presentation short abstracts (1 page).

A **round table** will be organized at the end of the session to bridge the efforts and the adopted solutions in the different domains.

Important dates:

- **paper submission: July 1, 2020**
- paper notification: August 15, 2020
- camera ready: September 15, 2020

Chairs:

Luca Spogli, *Istituto Nazionale di Geofisica e Vulcanologia (Italy)*, luca.spogli@ingv.it
Nicola Linty, *Finnish Geospatial Research Institute (Finland)*, nicola.linty@nls.fi