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Radar for Space Observation: Systems, Methods and Applications

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

This Special Issue aims to focus on all aspects of radar and related observational and data analysis techniques, applied to the observation of objects occupying any orbital regime in the near-Earth space environment. Articles geared towards, but not limited to, the following broad themes will be considered:

- the detection, tracking, and orbit determination of satellites and space debris;
- the large-scale cataloging, identification, characterization, and classification of space objects;
- radar as an enabler of effective SSA, SDA, and STM;
- detailed radar observations of individual satellites and space debris;
- radar imaging and inverse synthetic aperture radar (ISAR);
- applications of surveillance and reconnaissance in the space domain;
- new trends and novel techniques in space observation with radar systems;
- radar applications ensuring long-term sustainability in space, e.g. support in on-orbit servicing, deorbiting, or active debris removal (ADR) missions, etc.;
- synergies with passive and active sensors at different wavelengths and data fusion systems;
- radar observations of meteoroids, meteors, and asteroids.

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Message from the Editor-in-Chief

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