



New Advances in GNSS-R Signal Processing

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Message from the Guest Editor

The GNSS signal is a source of opportunity for several remote sensing applications, such as GNSS reflectometry and radio occultation. This signal of high quality is broadcast on several frequency bands by several satellite constellations. The global covering of the GNSS system allows remote sensing observations everywhere in the world.

This Special Issue focuses on signal processing methods used to extract from the GNSS signal the parameters to process remote sensing observations (SNR, phase, Doppler). GNSS observations have a low signal-to-noise ratio. This is why a number of research works focus on the joint use of the signals of the bi-static radar system and on the joint use of the different bandwidths and constellations of the GNSS system.

In this context, applicative or methodological contributions to this Special Issue may include:

- Open loop phase processing;
- Assisted tracking;
- Coherence of phase measurement;
- Precise pseudo-range estimation;
- Carrier-to-noise estimation;
- Modern and multiband GNSS signal processing.





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Message from the Editor-in-Chief

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