



Modelling Geodetic Time Series and Applications for Earth Science and Environmental Monitoring

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Message from the Guest Editors

Dear Colleagues,

This Special Issue focuses on modelling the geodetic time series recorded by various instruments to monitor the aforementioned phenomena using modern technologies (e.g., GNSS, GRACE, InSAR, Terrestrial Laser Scanners (TLS)). We emphasize the recent advances in the detection of small amplitude transient signals, periodic signals, and long-term trends (e.g., seasonal signals, tectonic rate, etc.) that are contaminated by various types of noise (i.e., stochastic processes, correlations). We especially welcome contributions focusing on modern algorithms and statistical estimators (e.g., MLE, wavelet, machine learning, and data fusion) highlighting the recent progress in statistics applied to environmental geodesy. Potential topics include, but are not limited to, the following: Geodetic Time Series Analysis; Application of Machine Learning on Geodetic Time Series Analysis; Tectonic Activity Inferred from GNSS Velocity Field; Crustal Deformation Pattern Detection; Seasonal Hydrological/Environment Loading; Dynamic Sea Level Changes and Coastal Disaster Early Warning Based on Earth Observations; Strong Convective Weather.





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Message from the Editor-in-Chief

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