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Behavioural Characterisation of Resident Space Objects for Space Situational Awareness

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Message from the Guest Editors

This Special Issue aims at addressing a wide spectrum of technical issues in space tracking, object detection, orbit/attitude determination, manoeuvring detection and estimation for residential space objects, which connect the fields of measurements, modelling, dynamics for space situational awareness applications. Topics may cover anything from ground tracking capabilities to space-based detection and estimation, from single orbit determination to multiple target tracking, etc.

Articles may address, but are not limited, to the following topics:

- Space object detection from optical sensors
- Initial orbit determination and orbit determination
- Intelligent attitude determination and control
- Data aggregation and fusion, e.g., angular/range/doppler measurements
- Robust manoeuvre detection and estimation techniques
- Space tracking and data correlation
- Cislunar space situational awareness



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Special Issue



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