Special Issue

Advanced GNSS Technologies: Measurement, Analysis, and Applications

Message from the Guest Editor

Global Navigation Satellite System (GNSS) technologies are pivotal to modern society due to their role in providing precise location and time synchronization. The core of GNSS technology relies on the measurement of signals transmitted by satellites and received by ground-based equipment. GNSS applications are vast, impacting fields such as navigation, location-based services, precise positioning, agriculture through precision farming, urban planning with traffic management, and scientific research in Earth sciences. The integration of GNSS into other technologies, such as inertial navigation systems, LiDAR, vision, and mobile communications, further extends its utility. As research and development continue, GNSS technologies are becoming more robust, with increased resilience to interference and jamming, ensuring their continued relevance in a rapidly evolving technological landscape.

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