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Geomatics

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Message from the Editor-in-Chief

Geomatics is the modern adaptation of traditional surveying, mapping, and their related skills. In geomatics, Information and Communication Technology (ICT) and digitization play a focal role. Geomatics is the discipline that integrates the tasks of gathering, storing, processing, modeling, analyzing, and delivering georeferenced information. Geomatics produces, validates, and represents georeferenced data that helps to provide services that meet the needs of society.

Geomatics journal is not intended for focusing on case studies but, conversely, is interested in the methodological and theoretical aspects related to error minimization, robustness maximization, the generalization capability of proposed approaches, data/products/services testing and validation, the definition and proposal of guidelines for processing, qualifying, structuring and integrating geographical data, and the evaluation of new software and instruments.

Geomatics journal offers a new forum to promote multi-disciplinary research over broad ranges of geomatics innovative research and applications. Original contributions in the form of research papers, communications, letters, short notes, and reviews on all aspects of geomatics are invited.

Aims

Geomatics (ISSN 2673-7418) is an international and interdisciplinary peer-reviewed open access journal, published quarterly online by MDPI. Geomatics is a modern, technology-driven discipline that integrates data acquisition, processing, analysis, and visualization of geo-referenced information to support a wide range of applications in land, water, atmospheric, and extraterrestrial environments. Evolving from traditional surveying and mapping, Geomatics combines digital tools, sensor technologies, spatial algorithms, and geoinformatics to produce accurate 2D, 2.5D, and 3D representations essential for environmental monitoring, resource management, and informed decision-making. By providing validated spatial data and services, *Geomatics* serves as a vital foundation for scientific research, policy development, and sustainable solutions across diverse environmental and societal domains. Our aim is to publish papers on the latest advances, as well as review articles, concerning all aspects of the geomatic sciences and applications.

Editor-in-Chief

Prof. Dr. Enrico Corrado Borgogno Mondino

Scope

- Geodesy and gravimetry
- Technical and thematic cartography production
- Aerial and close range photogrammetry
- Topographic surveys
- Satellite-based positioning (GNSS) and navigation
- SLAM (Simultaneous Localization and Mapping) and mobile mapping
- Aerial and terrestrial LiDAR
- Ground and structure/infrastructure deformation monitoring
- Hydrography and bathymetry
- Optical and radar remote sensing techniques, methods and data quality evaluations
- Odometry
- Extra-terrestrial geomatics
- Digital twins
- Indoor positioning, navigation and mapping
- The standardization of workflows for the acquisition, processing and validation of geographical data and spatial measures
- The officiality and legal value of spatial information
- Crowdsourcing/volunteered geographic information and citizen science
- The frontiers of geomatics applications, like human and animal health, epidemiological modeling, risk analysis and spatially based simulation
- Geovisualization

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A first decision is provided to authors approximately 20 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025)

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