

Special Issue

Open-Source Geoinformation Software Tools in Environmental Modelling

Message from the Guest Editors

This Special Issue invites contributions focusing on modern open-source software tools developed for displaying, processing, analysing, and validating GIS and EO data with the aim of acquiring more in-depth knowledge of the Earth's natural environment, especially concerning their relationship with data acquisition systems, like handheld, airborne, or spaceborne sensors. We also welcome contributions focusing on modern cloud GIS platforms used for spatial data analysis and cartographic purposes for a wide range of environmental applications. Special interest is allocated to tools that make use of parallel processing on high-performance computers (HPCs) and graphic processing units (GPUs). In addition, scientific contributions focusing on the validation of software tools/methods and the accuracy quantification procedures that are needed to ensure the proper use of the results produced by such software tools are welcomed.

Guest Editors

Dr. George P. Petropoulos
Dr. Prashant Srivastava
Prof. Dr. Daniela Silva-Fuzzo

Deadline for manuscript submissions

closed (31 July 2025)



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About the Journal

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.

Editor-in-Chief

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