

# Geoscientific Instrumentation, Methods and Data Systems

An interactive open-access journal of the European Geosciences Union

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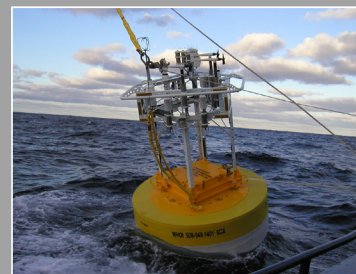
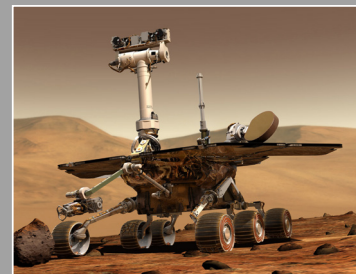
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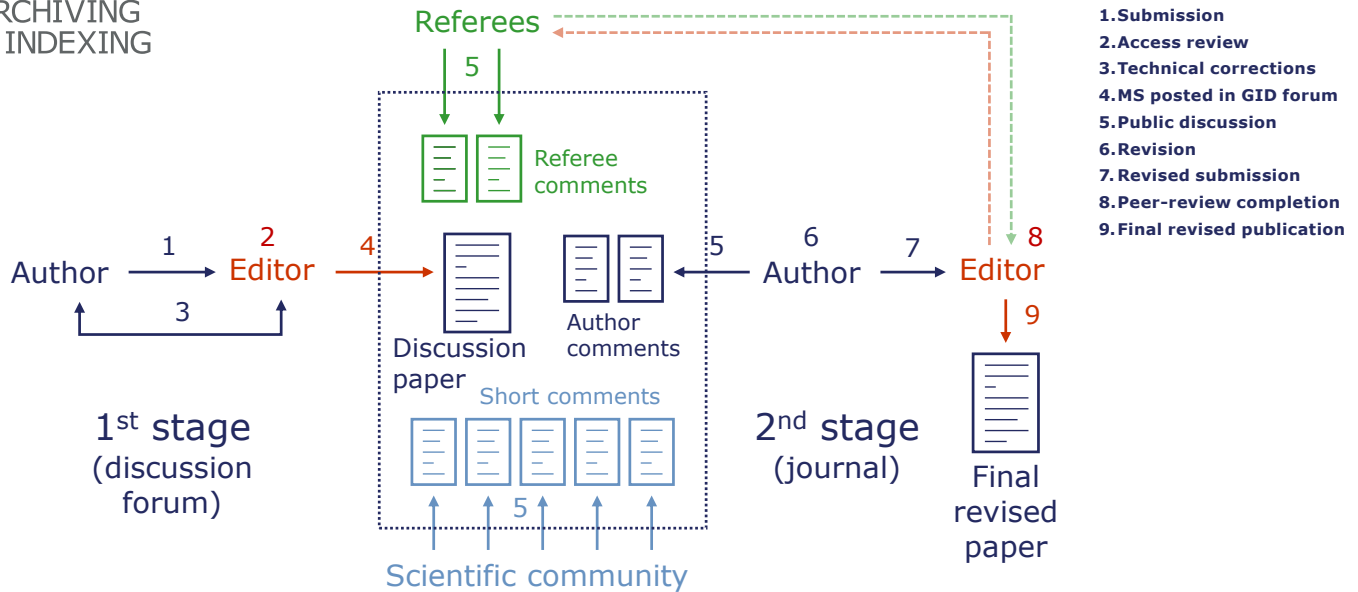


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## Aims and scope

Geoscientific Instrumentation, Methods and Data Systems (GI) is a not-for-profit open-access interdisciplinary electronic journal for swift publication of original articles and short communications in the area of geoscientific instruments. It covers four main areas: (i) atmospheric and geospace sciences, (ii) Earth science, (iii) ocean science, and (iv) urban environmental monitoring. A unique feature of the journal is the emphasis on the synergy between science and technology that facilitates advances in GI. These advances include but are not limited to the following:

- concepts, design, and description of instrumentation and data systems;
- retrieval techniques of scientific products from measurements;
- calibration and data quality assessment;
- uncertainty in measurements;
- newly developed and planned research platforms and community instrumentation capabilities;

- major national and international field campaigns and observational research programmes;
- new observational strategies to address societal needs in areas such as monitoring climate change, preventing natural disasters, and urban health monitoring;
- networking of instruments for enhancing high temporal and spatial resolution of observations;
- urban instrumentation and remote sensing;
- model-calibrated remote sensing;
- advanced data analytics and assimilation methods;
- multi-scale and multi-physical sensing;
- new concept in measurements system architecture;
- Internet of things (IoT) and massive low-cost instrumentation;
- citizen science data management;
- human sensing.