

## Call for Papers

# Environmental Earth Sciences

## Special Issue on Visual Data Exploration

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### Scope and Context

Research in environmental sciences has become more and more important as we are faced with increasing problems concerning climate change, water scarcity, pollution of the environment, or changes in biodiversity. Understanding complex data acquired via high-resolution monitoring or remote sensing measurement as well as results from simulation of natural phenomena such as reactive transport in groundwater or the migration of animal species under changing natural conditions, requires the use of advanced visualization methods for a better understanding of the data. This is essential for extracting the relevant information, discovering correlations and communicating research results to the public. However, as data sets are becoming larger and are highly heterogeneous, visualization becomes a complex task. There are often large differences in the spatial and temporal resolution of data sets, the quality of measurements needs to be validated, inconsistencies between data sets need to be found and suitable ways to reduce data may become necessary. The amount of data and the heterogeneity of the information are also key challenges for simulation and the subsequent understanding of research results. New advances are supported by the use of specialized hardware such as virtual or augmented reality devices or web-based techniques such as crowdsourcing or the use of cloud services.

### Topics and Themes

This special issue invites contributions with a broad application area in environmental research from both visualization and environmental sciences. Our goal is to raise awareness to the importance of visualisation to establish a forum for interdisciplinary discussions. Application areas include, but are not limited to

- Climate research
- Atmosphere modelling
- Geology, geography, geophysics
- Soil and groundwater research
- Energy resources
- Waste management
- Land use research
- Biodiversity and ecosystem services

Articles should be submitted until November 30, 2018.

Instructions for authors and paper templates [can be found on the EES website](#).

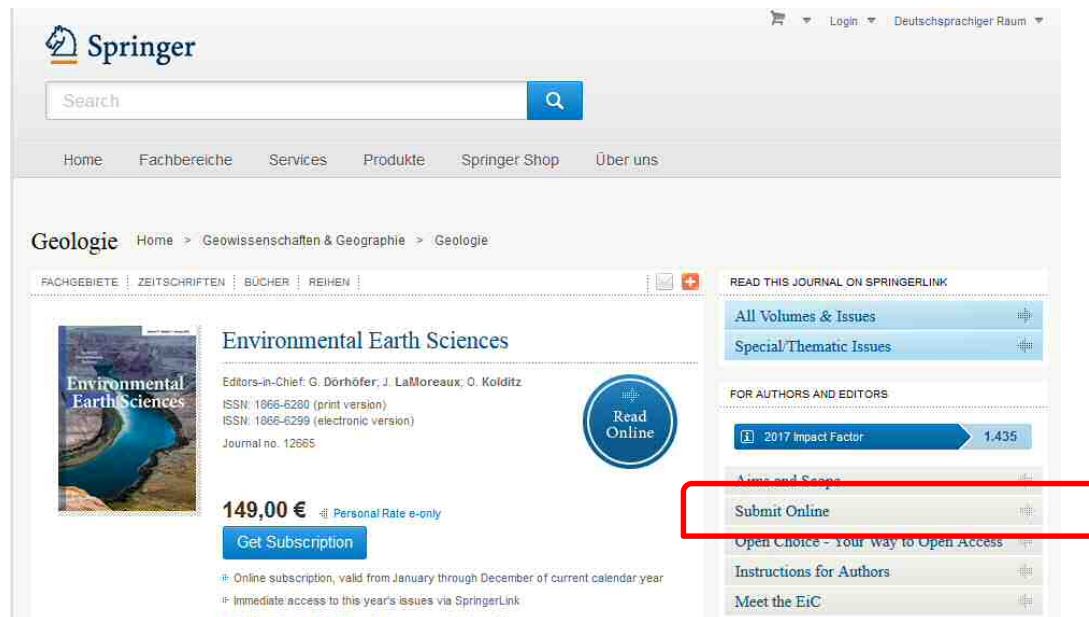
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