

## Special Issue

# Novel GIS Tool for Soil Research

### Message from the Guest Editors

GIS techniques are becoming progressively more important in tackling challenging soil research issues and promoting more sustainable and informed management of soil resources, which includes mapping soil and analyzing the physical, chemical, biological, and fertility characteristics of soils. Potential topics include, but are not limited to, the following:

- Applications in land use planning and precision agriculture;
- Digital soil mapping (DSM);
- Artificial intelligence and machine learning applications for soil management;
- Drone soil analysis and mapping;
- Ground penetrating radar (GPR) applications to investigate underground features or soil substrates;
- GIS applications for monitoring soil loss and erosion;
- GIS applications for soil contamination;
- GIS applications for soil moisture;
- GIS applications for crop production and grassland management;
- GIS in soil surveying;
- GIS-based geostatistical analysis for soil characteristics.

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### Guest Editors

Dr. Sanda Roşca

Dr. Paul Sestras

Dr. Ştefan Bilaşco

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### Deadline for manuscript submissions

closed (20 February 2025)



## Applied Sciences

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### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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