

First call for manuscripts

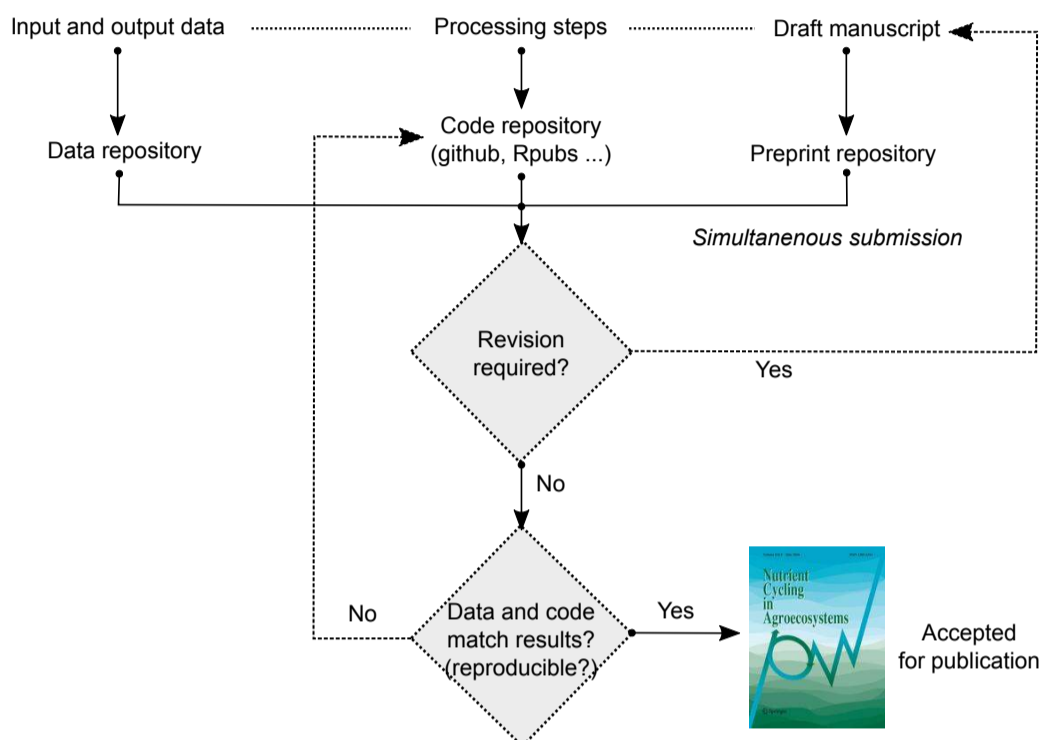
Special Issue Nutrient Cycling in Agroecosystems

Submit article for a special issue “**Technological and Methodological Advances in Measuring, Mapping and Monitoring Soil Carbon and Nutrients in Space and Spacetime**” and win **FREE** registration for the Open-GeoHub Summer School 2019!



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Who is invited? This special issue invites researchers in the field of soil science, agronomy, ecology, data science and pedometrics to submit original research work connected with development and application of novel technologies and methods that can be used to advance measurement, mapping and monitoring of soil carbon and nutrients in space and spacetime. Our special interest is in using novel technologies such as soil sensing and image recognition, automated sensor networks, unmanned aerial vehicles (UAVs) and publicly available remote sensing products (such as NASA’s Landsat 7 & 8 and ASTER missions, ESA’s Sentinel 2 and other Copernicus land products, JAXA’s Advanced Land Observing Satellite ALOS, LiDAR, TanDEMx and similar missions), in combination with statistical learning, data mining and high performance computing.

How does it work? First five (5) accepted papers for this special issue will be awarded a waived registration fees (names to be chosen by the contact author of the accepted paper) at the next Open-GeoHub Summer School 2019 (former GEOSTAT Summer School, for more info see: <https://geostat-course.org/2018>).



input data



processing workflows



manuscript



reproducibility



open access

Special issue themes: Direct-to-digital soil mapping, from soil sensing to dynamic maps of soil carbon and nutrients • Integration of regional and global soil data, incorporation of scale into soil carbon and nutrient mapping • Ensemble methods / model averages for operational mapping • Estimation of uncertainty of spatial predictions in space and spacetime • Combination of expert-based soil evaluation and numeric approaches to soil mapping including soil sensing • Development of methods for predicting soil carbon and nutrients in space and spacetime (deriving soil carbon loss and gain) • Development of sampling schemes for spatial monitoring of changes in soil carbon and nutrients possibly accounting for seasonal variation in the target soil property • Interdisciplinary developments spanning fields of pedometrics, econometrics and environmetrics

Important dates The special issue is scheduled to be released in early 2019. The provisional schedule is as follows:

- First call: 2018, June 1st.
- Manuscript submission until **2018, December 1st**.
- Manuscript evaluation until 2019, February 20th.
- Special issue publication in 2019, March.

CAN YOUR RESEARCH BE REPRODUCED? Could another independent researcher reproduce your key results without contacting anyone from the list of authors? We require that all articles submitted for this issue come with documented computational steps (code) and/or data processing tutorials which are available publicly (github, Rpubs, Launchpad and/or Bitbucket) and can be used to reproduce at least 2/3rd of key results (key tabular and graphical results). We also require that the submitted works, as much as possible, involve using or distributing Open Data (meaning that the input and/or output data is registered under some of the Open Data licenses as listed on <https://opendefinition.org/licenses/>). Authors have full freedom to specify which of the key results are provided as reproducible research materials.