Special Issue

Sustainable Agro-Ecosystem Management: Mechanisms, Measurements and Modelling Strategies with Special Emphasis to the Soil Properties

Message from the Guest Editors

In the present Special Issue, we aim at collecting contributions focused on highlighting mechanisms, measurements, and modeling strategies of the agro-ecosystem, with special emphasis on soil fertility, soil organic and inorganic carbon stocks and their dynamics (AgroEco4M), as well as other soil physical and chemical properties to better understand soil dynamics. Studies on the modeling of plant yield, with special emphasis on root growth and root biomass, are also welcome, along with their relationship with soil microbial populations. In particular, submitted studies can aim toward a wealth of topics, including soil fertility assessment in laboratory and field experiments, provision of ecosystem services, and their changes, and the implication for economy, policy, and decision making. Discussion about the proxies to measure and model these variables, with special emphasis on cropping systems and natural/semi-natural areas, is encouraged. These proxies should be approached with varying soil and environment data, including, e.g., soil texture, rainfall, temperature, bulk density, land use and land management, or proximal and remote sensing properties.

Guest Editors

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Dr. Viktoria Hetmanenko

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Deadline for manuscript submissions

closed (28 February 2021)

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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