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Integrating GIS and Remote Sensing in Soil Mapping and Modeling

Edited by: Dimitris Triantakonstantis and Panagiotis Tziachris

The aim of this book is to publish original contributions or review articles that evaluate the integration of GIS and remote sensing in agricultural practice by improving soil quality and environmental health. The complexity of spatial data and modeling methods in soil science imposes the need for combined integrated approaches using robust methods, leading to more accurate and reliable outcomes in sustainable soil management. More specifically, we are interested in studies that investigate the impact of widely applied geographical approaches in everyday soil research and activities. This book addresses many aspects, including soil mapping and the spatial modeling of soil characteristics, precision agriculture, geostatistics, machine learning, and the development of software tools for data collection and processing. Work that directly addresses the response of anthropogenic interventions to ecosystems and climate change is particularly welcome. Theoretical approaches and lab and/or field experimentation cases are equally welcome to this Special Issue, "Integrating GIS and Remote Sensing in Soil Mapping and Modeling".

