



Modeling and Simulation in Geographic Information Science: A Useful Tool for Land System Science Studies

Guest Editors:

Dr. Shafique Matin

Dr. Gabriela Mihaela Afrasinei

Dr. Pulakesh Das

Dr. Mohd Yawar Ali Khan

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Message from the Guest Editors

Dear Colleagues,

This Special Issue, entitled *Modeling and Simulation in Geographic Information Science: A Useful Tool for Land System Science Studies*, provides an overview of recent advances in land system science while at the same time setting the research agenda for the land system science community. The Special Issue will focus on the different approaches to land systems science and their dynamics, current trends, research topics, and suggested ways forward. As reported by the Web of Science database, the use of geographical information system (GIS) based spatial analysis modeling for different aspects of land system science began in the early 1990s and has continued since then, with significant growth in the 21st century. GIS has been extensively used for various land system studies like to understand long-term urbanization trends, deforestation and its drivers, agricultural intensification studies, land degradation and desertification, the impact of agricultural land change on landscape and urban services, and artificialization of land surface.

Dr. Shafique Matin

Dr. Gabriela Mihaela Afrasinei

Dr. Pulakesh Das

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Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

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Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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