Contents

Part I  Classical Remote Sensing Applications

Remote Sensing-Based Determination of Conifer Needle Flushing Phenology over Boreal-Dominant Regions ................................. 3
Navdeep S. Sekhon, Quazi K. Hassan and Mohammad M. Kamal

Information System for Integrated Watershed Management Using Remote Sensing and GIS .......................................................... 17
P. D. Aher, J. Adinarayana, S. D. Gorantiwar and S. A. Sawant

Sensitivity Exploration of SimSphere Land Surface Model Towards Its Use for Operational Products Development from Earth Observation Data ........................................... 35
George P. Petropoulos, Hywel M. Griffiths, Pavlos Ioannou-Katidis and Prashant K. Srivastava

Remote Estimation of Land Surface Temperature for Different LULC Features of a Moist Deciduous Tropical Forest Region ............... 57
Suman Sinha, Prem Chandra Pandey, Laxmi Kant Sharma, Mahendra Singh Nathawat, Pavan Kumar and Shruti Kanga

Geospatial Strategy for Estimation of Soil Organic Carbon in Tropical Wildlife Reserve .......................................................... 69
Gargi Gupta, Jyoti Singh, Prem Chandra Pandey, Vandana Tomar, Meenu Rani and Pavan Kumar

Part II  Advanced Remote Sensing Applications

A Comparative Assessment Between the Application of Fuzzy Unordered Rules Induction Algorithm and J48 Decision Tree Models in Spatial Prediction of Shallow Landslides at Lang Son City, Vietnam ......................................................... 87
Dieu Tien Bui, Biswajeet Pradhan, Inge Revhaug and Chuyen Trung Tran
Application of Geo-Spatial Technique for Flood Inundation Mapping of Low Lying Areas ........................................ 113 Dhruvesh P. Patel and Prashant K. Srivastava

Spatial Variations in Vegetation Fires and Carbon Monoxide Concentrations in South Asia ........................................ 131 Krishna Prasad Vadrevu, Kristofer Lasko and Chris Justice

Land Use Fragmentation Analysis Using Remote Sensing and Fragstats ................................................................. 151 Sudhir Kumar Singh, Avinash Chandra Pandey and Dharamveer Singh

Chlorophyll Retrieval Using Ground Based Hyperspectral Data from a Tropical Area of India Using Regression Algorithms ...... 177 M. Gupta, Prashant K. Srivastava, S. Mukherjee and G. Sandhya Kiran

Remote Sensing Applications in Environmental Research
Srivastava, P.K.; Mukherjee, S.; Gupta, M.; Islam, T. (Eds.)
2014, XVI, 212 p. 80 illus., 66 illus. in color., Hardcover
ISBN: 978-3-319-05905-1