



Towards Biodiversity Conservation: Remote Sensing Applications in Ecological Modeling

Guest Editors:

Dr. Grant Hamilton

Faculty of Science, School of
Biology & Environmental Science,
Queensland University of
Technology, Brisbane, QLD,
Australia

Dr. Evangeline Corcoran

Corcoran, Evangeline Alan Turing
Institute, London, UK

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Message from the Guest Editors

Biodiversity conservation is one of the critical issues of our time. If the global trend of species loss continues, it could have devastating impacts on ecosystems and humanity, so urgent action is required. Combating the biodiversity crisis is complex, requiring deep knowledge of at-risk species and their interactions with other species and the environment. To understand this complexity, ecological models are invaluable to provide insight on factors that impact biodiversity from observed or simulated data, to predict future trends in wildlife populations, and identify potential strategies for intervention for species of conservation concern. Ecological modeling therefore plays an integral role in the management of species to safeguard future biodiversity.

Remote sensing technologies are being increasingly used to collect data on which to train and develop ecological models, to predict future trends in populations and ecosystems, and to monitor the impact of interventions. These technologies have the potential to increase the accuracy, coverage, and frequency of data collection so that more reliable, comprehensive, and timely management decisions can be made to conserve species.





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Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

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Remote Sensing Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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