

Special Issue

Modeling Biodiversity and Landscape Conservation Planning

Message from the Guest Editors

Loss of biodiversity is one of the most serious environmental issues facing the planet. Many researchers are turning to model-based approaches to better predict the ecological effects of habitat fragmentation, climate change, and anthropogenic impacts, aiming to identify conservation strategies that are more effective at preserving biodiversity. Models play a crucial role in evaluating alternative landscape management techniques, spatial conservation prioritization, and future scenario planning in terms of their impact on biodiversity preservation. Increasingly, conservation strategies and policies for multi-use landscapes are being developed at the intersection of science and policy. There exists a gap between social research and the comprehension of the complexities of actor, stakeholder, and policy participation in landscape planning. In light of these knowledge gaps and the value of geodesign methods and technology for facilitating strategic planning, the use of spatially explicit design scenarios to strengthen the link between environmental dynamics and territorial systems is ripe for investigation.

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