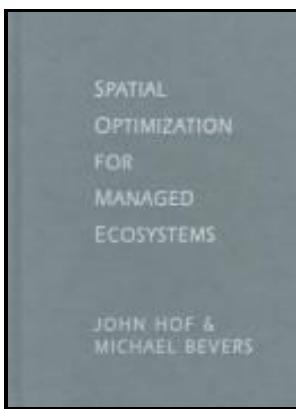


Spatial optimization for managed ecosystems

Columbia University Press - Integration of biophysical connectivity in the spatial optimization of coastal ecosystem services



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Spatial Optimization for Managed Ecosystems : John Hof : 9780231106375

To tackle spatial optimization problems, there have been many different kinds of models, ranging from linear programming LP models to heuristic models, weighted-sum models to Pareto front-based models, depending on the different contexts of different projects. However, other layout rules of landscape ecology, such as ecological corridor Liu et al. De Tijdschriftenlijst biedt een overzicht van tijdschriften waaruit de artikelen voor Groenekennis worden geselecteerd.

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Individuals with high fitness values have a high chance to be selected by the GA to participate in an operation called crossover, where the two individuals selected mix their contents to create two new individuals. Weber showed how this model could be solved geometrically for certain problems.

Spatial Optimization for Managed Ecosystems

For example, not every index of landscape ecology is suitable for the establishment of the model of landscape ecology. Results show it is unnecessary to relocate existing management areas, as increasing no-take areas by 10% could maximise ecosystem service provision, while improving the spatial representativeness of protected areas and minimizing social conflicts. Suitability evaluation can be described to be the ancestor of the spatial optimization model, but not the suitability evaluation model nor the spatial causality layout model nor the CA simulation model with complex spatial evolving behavior Liu et al.

Spatial Optimization for Managed Ecosystems

The motivation behind the integrated approach is that one can achieve a synergistic effect by integrating the two modeling frameworks Ligmann-Zielinska and Jankowski, 2010; Bone et al. The normative results recommendations of multiobjective optimization can be strengthened by a complementary multiagent, process-oriented modeling of the decision-making process. Cao and Ye 2013 tried to employ a parallel genetic algorithm to solve a land use optimization problem.

Spatial Optimization in Ecological Applications

Characteristics of the Discrete Reaction-Diffusion Model 7. The two modeling paradigms complement each other. We may impose spatial constraints on these selected spatial units.

Integration of biophysical connectivity in the spatial optimization of coastal ecosystem services

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Spatial Optimization

A spatial optimization model is introduced to maximise the potential provision of ecosystem services in coastal areas by accounting for the role of dispersal and larval connectivity. The first of four parts treats static spatial relationships that reflect the importance of shape, size, and proximity within an ecosystem.

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