

Spatial Optimization and GIS

Guest Editors:

Prof. Kevin M. Curtin

Department of Geography,
Laboratory for Location Science,
College of Arts & Sciences,
University of Alabama, Box
870322, Tuscaloosa, AL 35401,
USA

Prof. Thomas J. Cova

Geography Department, College
of Social & Behavioral Science,
University of Utah, 260 S. Central
Campus Dr., Orson Spencer Hall,
Salt Lake City, UT 84112-9155,
USA

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Message from the Guest Editors

The ongoing revolutions in high-performance computing and in the collection and analysis of spatial data, combined with continued development and refinement of optimization solution procedures, are fundamentally changing the landscape for performing spatial optimization in the context of geographic information systems (GIS). The demand for spatial optimization regularly extends to new domain areas. The size of problems that can be approached with optimization grows as the bounds of tractability are pushed outward with increased computing power and sophisticated solution procedures. Taken together, these developments have altered the ways in which spatial optimization in GIS can be performed and how those analyses can contribute to both theory and practice. This Special Issue is dedicated to examining the changing practice of spatial optimization in the context of GIS, identifying the current frontier of the possible in this field, and identifying challenges and opportunities for continued development in the future. All papers—whether theoretical or applied—that address issues of spatial optimization in the context of GIS are welcomed.



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Editor-in-Chief

Prof. Dr. Wolfgang Kainz

Cartography and Geographic
Information Science, Department
of Geography and Regional
Research, University of Vienna,
Universitätsstr. 7, A-1010 Vienna,
Austria

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MDPI, St. Alban-Anlage 66
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