



# Quantitative Methods and Socio-Economic Applications in GIS, Second Edition

By Fahui Wang

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## Quantitative Methods and Socio-Economic Applications in GIS, Second Edition By Fahui Wang

The second edition of a bestseller, *Quantitative Methods and Socio-Economic Applications in GIS* (previously titled *Quantitative Methods and Applications in GIS*) details applications of quantitative methods in social science, planning, and public policy with a focus on spatial perspectives. The book integrates GIS and quantitative (computational) methods and demonstrates them in various policy-relevant socio-economic applications with step-by-step instructions and datasets. The book demonstrates the diversity of issues where GIS can be used to enhance the studies related to socio-economic issues and public policy.

See What's New in the Second Edition:

Advanced tasks now implemented in user-friendly programs or ArcGIS: centrality indices, wasteful commuting measure, p-median problem, and traffic simulation. Each chapter has one subject theme and introduces the method (or a group of related methods) most relevant to the theme. While each method is illustrated in a special case of application, it can also be used to analyze different issues. For example, spatial regression is used to examine the relationship between job access and homicide patterns; systems of linear equations are analyzed to predict urban land use patterns; linear programming is introduced to solve the problem of wasteful commuting and allocate healthcare facilities; and Monte Carlo technique is illustrated in simulating urban traffic. The book illustrates the range of computational methods and covers common tasks and major issues encountered in a spatial environment. It provides a platform for learning technical skills and quantitative methods in the context of addressing real-world problems, giving you instant access to the tools to resolve major socio-economic issues.

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Editorial Review

"The volume continues to provide a valuable steer towards the use of spatial computational techniques to address problems in different social policy contexts and one that includes material that could easily form the basis of applied spatial statistics modules at range of learning levels." - Gary Higgs, University of South Wales, Pontypridd

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