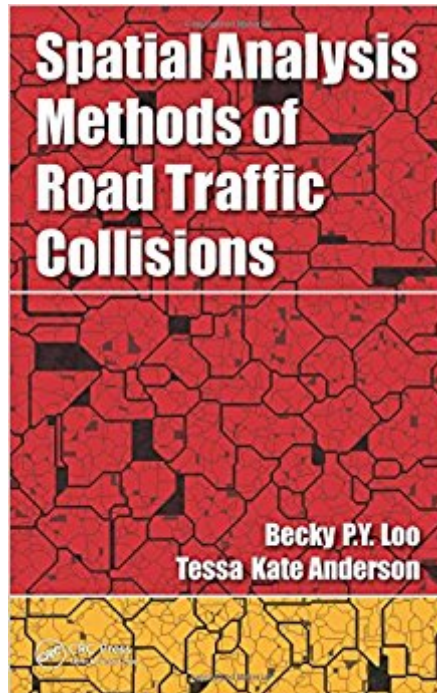




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# Spatial Analysis Methods Of Road Traffic Collisions



## Synopsis

Examine the Prevalence and Geography of Road Collisions Spatial Analysis Methods of Road Traffic Collisions centers on the geographical nature of road crashes, and uses spatial methods to provide a greater understanding of the patterns and processes that cause them. Written by internationally known experts in the field of transport geography, the book outlines the key issues in identifying hazardous road locations (HRLs), considers current approaches used for reducing and preventing road traffic collisions, and outlines a strategy for improved road safety. The book covers spatial accuracy, validation, and other statistical issues, as well as link-attribute and event-based approaches, cluster identification, and risk exposure. The book provides a brief summary of the evolution of road safety in the twentieth century, explores current road safety problems, and establishes road safety as a public health issue. The authors discuss risk and socioeconomic factors, lifestyle and behavior, and the impact of urban development. They consider road engineering, signage, vehicle design, the education of road users, and the enforcement of traffic safety measures. They also factor in the overall impact of road traffic collisions on transportation systems, economic systems, health systems, and society as a whole. Combines theoretical methodology with empirical data Bridges research and practice in road safety Includes case studies from around the world Spatial Analysis Methods of Road Traffic Collisions takes a look at spatial methods and their role in analyzing road traffic collisions to improve road safety. A great addition to transportation safety practice and research, this book serves as a reference for spatial analysis researchers and postgraduate students in traffic and transportation engineering, transport, and urban transport planning.

## Book Information

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"The spatial organization of road accidents is not only an ideal topic for illustrating and understanding spatial statistics, but also for helping road safety practitioners to improve road safety. I'm looking forward to read[ing] this book written by a well recognised researcher, a book that will for sure interest a broad and diversified audience." •Isabelle Thomas, Université catholique de Louvain, Belgium "We have a number of books in traffic safety, but this is the first one •to the best of my knowledge •with a spatial focus | Well-written by knowledgeable road safety experts." •Fred Wegman, Professor of Traffic Safety, Delft University of Technology, The Netherlands " | timely and useful and necessary | We are talking about world class researchers taking on a compelling topic that is buzzing around the research world. This book will be as seminal as the book on discrete choice model by Ben-Akiva and Lerman. | The writing is flawless and is a pleasure, not surprising when you are familiar with their previous work! I would like the book, now!" •Carlo Giacomo Prato, DTU Transport, Denmark " | an excellent book that is well structured and easy to read. It has a very clear focus on a very important and useful methodological approach. | The spatial analysis methods are presented clearly and simply but with sufficient details for both students and researchers to acquire the necessary knowledge to appreciate and perform similar analyses. Overall, it is an essential text for students and researchers in spatial analysis, transportation and traffic safety." •Richard Tay, RMIT University, Australia

Becky P.Y. Loo is professor of geography and director of the Institute of Transport Studies at the University of Hong Kong. Her research interests are transportation, e-technologies, and society. In particular, she is interested in applying spatial analysis, surveys, and statistical methods in analyzing pertinent issues related to sustainable transportation. She is editor-in-chief of Travel Behaviour and Society and associate editor of the Journal of Transport Geography. She is also on the editorial boards of Asian Geographer, Injury Epidemiology, International Journal of Shipping and Logistics, International Journal of Sustainable Transportation, Journal of Urban Technology, and Transportmetrica A: Transport Science. Tessa Kate Anderson is a researcher at the Technical University of Denmark in Copenhagen. She has previously worked at the University of Hong Kong, the University of Queensland, and the University of Canterbury. She completed her Ph.D at the Centre for Advanced Spatial Analysis in London. Her research interests are transportation, road

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