

Geotechnologies and the Environment

Michael Leitner *Editor*

# Crime Modeling and Mapping Using Geospatial Technologies

 Springer

# Crime Modeling And Mapping Using Geospatial Technologies Geotechnologies And The Environment

**Juan Medina Ariza,Reka Solymosi**



## **Crime Modeling And Mapping Using Geospatial Technologies Geotechnologies And The Environment:**

*Crime Modeling and Mapping Using Geospatial Technologies* Michael Leitner, 2013-01-19 Recent years in North America have seen a rapid development in the area of crime analysis and mapping using Geographic Information Systems GIS technology In 1996 the US National Institute of Justice NIJ established the crime mapping research center CMRC to promote research evaluation development and dissemination of GIS technology The long term goal is to develop a fully functional Crime Analysis System CAS with standardized data collection and reporting mechanisms tools for spatial and temporal analysis visualization of data and much more Among the drawbacks of current crime analysis systems is their lack of tools for spatial analysis For this reason spatial analysts should research which current analysis techniques or variations of such techniques that have been already successfully applied to other areas e g epidemiology location allocation analysis etc can also be employed to the spatial analysis of crime data This book presents a few of those cases [New Research in Crime Modeling and Mapping Using Geospatial Technologies](#) Michael Leitner, 2025-03-10 This edited volume offers innovative research and applications in the analysis modelling and mapping of crime using geospatial and GeoAI technologies This is a follow up publication of an edited volume by the same editor with a similar title *Crime Modeling and Mapping Using Geospatial Technologies* published by Springer in its popular *Geotechnologies and the Environment* series in 2013 The book comprises sixteen chapters authored by some of the most esteemed researchers in the field These chapters are organized into four sections big data and microspaces Part I mobility Part II drugs Part III and additional geospatial applications Part IV Part I includes five chapters focusing on interactive crime mapping by using large data sets obtained from social media and analyzing these data using AI applications a fundamental spatial problem that considers spatial properties of a crime dataset to determine an adequate areal unit size different aspects of the influence or prediction of crime in microspaces and the use of sampled surface pollen to model the search space for documented forensic cases Part II has four chapters that introduce two route generation heuristics that automate the creation of hot spots policing patrol routes discuss how to optimize police response with two different maximal covering location problems and examine how human mobility patterns impact crime trends and modelling Part III consists of three chapters addressing opioid overdose patterns using a spatial mixed methods approach spatial temporal changes in hot spots of drug related offences and how geospatial technology can be used to empower stakeholders to make informed policy decisions about alcohol related motor vehicle collisions Part IV comprises four diverse chapters that do not fit under a single theme The topics discussed include the impact of video surveillance on the spatial distribution of crime the identification of the location of missing persons outreach events with spatial clustering analysis methods an examination of the distribution patterns of all types of juvenile delinquency to investigate underlying factors and a review and comparison of GeoAI methods for detecting and mapping illegal logging This book would be useful to faculty students and research scholars from geography sociology criminal justice criminology forensic sciences and other

related disciplines as well as to crime analysts working for law enforcement agencies at the local state or federal levels from around the world

**Crime Prediction Using GIS and Statistical Modelling** Priyanka Biswas, Nilanjana Das Chatterjee, 2025-02-17 The study presented in this SpringerBrief uses GIS tools to analyze incidents of violence against women in West Bengal India identifying hotspots and offering tools and strategies to predict and prevent future violence The aim of this study is to understand the existing scenarios and the complex crime patterns committed against women in West Bengal using advanced GIS tools to map and understand the underlying socio economic and physical environmental contexts of specific crime events and critically discussed emerging criminogenic issues on the basis of theoretical understanding and immediate situations This study evaluates the effectiveness of existing legislative measures to extract the gaps that exist between policy formulation and execution and effectively applied statistical methods and GIS technologies to visualize the future potential crime areas so that possible measures might be taken The study considers four categories of violence perpetrated on women human trafficking acid attacks rape and sexual harassment Each chapter follows a self contained design to address the study objectives as each crime follows distinct crime pattern differentially affects the targets and increase risk of victimization and differential key factors are responsible for specific crime occurrences

**Environmental Criminology and Crime Analysis** Richard Wortley, Michael Townsley, 2016-11-01 Environmental criminology is a term that encompasses a range of overlapping perspectives At its core the many strands of environmental criminology are bound by a common focus on the role that the immediate environment plays in the performance of crime and a conviction that careful analyses of these environmental influences are the key to the effective investigation control and prevention of crime This new edition brings together leading theorists and practitioners in the field to provide a comprehensive integrative coverage of the field of environmental criminology and crime analysis This book is divided into three sequential parts Understanding the crime event explores routine activity approach crime pattern theory the rational choice perspective and situational precipitators of crime Analysing crime patterns discusses crime mapping offender mobility repeat victimisation geographic profiling and crime scripts Preventing and controlling crime covers topics including problem oriented policing situational crime prevention and environmental design Fully updated and including new chapters on crime scripts and offender mobility a scene setting introductory overview and critical thinking questions at the end of each chapter this text is an essential and comprehensive resource for practitioners and students taking courses on environmental criminology crime analysis and crime prevention

**The Oxford Handbook of Offender Decision Making** Wim Bernasco, Henk Elffers, Jean-Louis van Gelder, 2017-05-08 Although the issue of offender decision making pervades almost every discussion of crime and law enforcement only a few comprehensive texts cover and integrate information about the role of decision making in crime The Oxford Handbook of Offender Decision Making provide high quality reviews of the main paradigms in offender decision making such as rational choice theory and dual process theory It contains up to date reviews of empirical research on

decision making in a wide range of decision types including not only criminal initiation and desistance but also choice of locations times targets victims methods as well as large variety crimes including homicide robbery domestic violence burglary street crime sexual crimes and cybercrime Lastly it provides in depth treatments of the major methods used to study offender decision making including experiments observation studies surveys offender interviews and simulations Comprehensive and authoritative the Handbook will quickly become the primary source of theoretical methodological and empirical knowledge about decision making as it relates to criminal behavior

**Handbook of Spatial Analysis in the Social Sciences** Sergio J. Rey, Rachel S. Franklin, 2022-11-18 Providing an authoritative assessment of the current landscape of spatial analysis in the social sciences this cutting edge Handbook covers the full range of standard and emerging methods across the social science domain areas in which these methods are typically applied Accessible and comprehensive it expertly answers the key questions regarding the dynamic intersection of spatial analysis and the social sciences

**Handbook of Big Geospatial Data** Martin Werner, Yao-Yi Chiang, 2021-05-07 This handbook covers a wide range of topics related to the collection processing analysis and use of geospatial data in their various forms This handbook provides an overview of how spatial computing technologies for big data can be organized and implemented to solve real world problems Diverse subdomains ranging from indoor mapping and navigation over trajectory computing to earth observation from space are also present in this handbook It combines fundamental contributions focusing on spatio textual analysis uncertain databases and spatial statistics with application examples such as road network detection or colocation detection using GPUs In summary this handbook gives an essential introduction and overview of the rich field of spatial information science and big geospatial data It introduces three different perspectives which together define the field of big geospatial data a societal governmental and governance perspective It discusses questions of how the acquisition distribution and exploitation of big geospatial data must be organized both on the scale of companies and countries A second perspective is a theory oriented set of contributions on arbitrary spatial data with contributions introducing into the exciting field of spatial statistics or into uncertain databases A third perspective is taking a very practical perspective to big geospatial data ranging from chapters that describe how big geospatial data infrastructures can be implemented and how specific applications can be implemented on top of big geospatial data This would include for example research in historic map data road network extraction damage estimation from remote sensing imagery or the analysis of spatio textual collections and social media This multi disciplinary approach makes the book unique This handbook can be used as a reference for undergraduate students graduate students and researchers focused on big geospatial data Professionals can use this book as well as practitioners facing big collections of geospatial data

**Security Technologies and Social Implications** Garik Markarian, Ruza Karlovic, Holger Nitsch, Krishna Chandramouli, 2022-10-25 SECURITY TECHNOLOGIES AND SOCIAL IMPLICATIONS Explains how the latest technologies can advance policing and security identify threats and defend citizens from crime and terrorism Security

Technologies and Social Implications focuses on the development and application of new technologies that police and homeland security officers can leverage as a tool for both predictive and intelligence led investigations. The book recommends the best practices for incorporation of these technologies into day to day activities by law enforcement agencies and counter terrorism units. Practically it addresses legal technological and organizational challenges e.g. resource limitation and privacy concerns combined with challenges related to the adoption of innovative technologies. In contrast to classic tools, modern policing and security requires the development and implementation of new technologies using AI, machine learning, social media tracking, drones, robots, GIS, computer vision, and more. As crime and cybercrime in particular becomes more and more sophisticated, security requires a complex mix of social measures including prevention, detection, investigation, and prosecution. Key topics related to these developments and their implementations covered in *Security Technologies and Social Implications* include: New security technologies and how these technologies can be implemented in practice plus associated social, ethical, or policy issues; Expertise and commentary from individuals developing and testing new technologies and individuals using the technologies within their everyday roles; The latest advancements in commercial and professional law enforcement technologies and platforms; Commentary on how technologies can advance humanity by making policing and security more efficient and keeping citizens safe. *Security Technologies and Social Implications* serves as a comprehensive resource for defense personnel and law enforcement staff, practical security engineers and trainee staff in security and police colleges to understand the latest security technologies with a critical look at their uses and limitations regarding potential ethical, regulatory, or legal issues.

*Geographical Information System and Crime Mapping* Monika Kannan, Mehtab Singh, 2020-11-29. *Geographical Information System and Crime Mapping* features a diverse array of Geographic Information System (GIS) applications in crime analysis from general issues such as GIS as a communication process, interjurisdictional mapping, and data sharing to specific applications in tracking serial killers and predicting violence-prone zones. It supports readers in developing and implementing crime mapping techniques. The distribution of crime is explained with reference to theories of human ecology, transport network, built environment, housing, markets, and forms of urban management including policing. Concepts are supported with relevant case studies and real-time crime data to illustrate concepts and applications of crime mapping. Aimed at senior undergraduate, graduate students, professionals in GIS, Crime Analysis, Spatial Analysis, Ergonomics, and human factors, this book provides an update of GIS applications for crime mapping studies. Highlights growing potential of GIS for crime mapping monitoring and reduction through developing and implementing crime mapping techniques. Covers Operational Research, Spatial Regression model, Point Analysis, and so forth. Builds models helpful in police patrolling, surveillance, and crime mapping from a technology perspective. Includes a dedicated section on case studies including exercises and data samples.

*Risk Terrain Modeling Compendium* Joel M. Caplan, Leslie W. Kennedy, 2011-07-27. *Risk Terrain Modeling* (RTM) is an approach to risk assessment in which separate map layers representing the spatial

influence and intensity of a crime risk factor is created in a geographic information system GIS. Then all map layers are combined to produce a composite risk terrain map with values that account for all risk factors at every place throughout the landscape. RTM builds upon principles of hotspot mapping, environmental criminology, and problem-oriented policing to produce maps that show where conditions are ideal or conducive for crimes to occur given the environmental contexts. RTM is a statistically valid way to articulate and communicate crime-prone areas at the micro level according to the spatial influence of criminogenic features. The Risk Terrain Modeling Manual 2010 presented the theoretical framework and complete steps of RTM. The Risk Terrain Modeling Compendium presents applications and concepts of RTM that were not already discussed at length in the RTM Manual. Part 1 presents an overview of risk terrain modeling, explains the history of its development, and discusses techniques for operationalizing spatial influence. Part 2 is a series of literature reviews with risk factors that are known to be related to a variety of crime types. Part 3 demonstrates how RTM may be applied to different crime types and settings and how it can be used for a variety of practical endeavors such as forecasting crime or evaluating place-based interventions. Part 4 concludes the book with thought pieces about RTM's potential applications to research technologies and activities related to public safety and security.

#### **Crime Mapping and Spatial Data Analysis using R**

Juan Medina Ariza, Reka Solymosi, 2023-04-27. Crime mapping and analysis sit at the intersection of geocomputation, data visualisation, and cartography, spatial statistics, environmental criminology, and crime analysis. This book brings together relevant knowledge from these fields into a practical, hands-on guide providing a useful introduction and reference material for topics in crime mapping, the geography of crime, environmental criminology, and crime analysis. It can be used by students, practitioners, and academics alike, whether to develop a university course to support further training and development or to hone skills in self-teaching R and crime mapping and spatial data analysis. It is not an advanced statistics textbook but rather an applied guide and later useful reference books intended to be read and for readers to practice the learnings from each chapter in sequence. In the first part of this volume, we introduce key concepts for geographic analysis and representation and provide the reader with the foundations needed to visualise spatial crime data. We then introduce a series of tools to study spatial homogeneity and dependence. A key focus in this section is how to visualise and detect local clusters of crime and repeat victimisation. The final chapters introduce the use of basic spatial models which account for the distribution of crime across space. In terms of spatial data analysis, the focus of the book is on spatial point pattern analysis and lattice or area data analysis.

#### **Innovative Crime Modeling and Mapping**, 2015

*Crime Mapping and Spatial Data Analysis Using R* Juanjo Medina, Reka Solymosi, 2023. Crime mapping and analysis sit at the intersection of geocomputation, data visualisation, and cartography, spatial statistics, environmental criminology, and crime analysis. This book brings together relevant knowledge from these fields into a practical, hands-on guide providing a useful introduction and reference material for topics in crime mapping, the geography of crime, environmental criminology, and crime analysis. It can be used by students,

practitioners and academics alike whether to develop a university course to support further training and development or to hone skills in self teaching R and crime mapping and spatial data analysis It is not an advanced statistics textbook but rather an applied guide and later useful reference books intended to be read and for readers to practice the learnings from each chapter in sequence In the first part of this volume we introduce key concepts for geographic analysis and representation and provide the reader with the foundations needed to visualise spatial crime data We then introduce a series of tools to study spatial homogeneity and dependence A key focus in this section is how to visualise and detect local clusters of crime and repeat victimisation The final chapters introduce the use of basic spatial models which account for the distribution of crime across space In terms of spatial data analysis the focus of the book is on spatial point pattern analysis and lattice or area data analysis

**Crime Mapping and Spatial Aspects of Crime** Derek J. Paulsen, Matthew B. Robinson, 2009 Spatial Aspects of Crime Theory and Practice is the first book specifically designed to teach the theoretical and practical aspects of mapping for criminal justice purposes First the book provides a solid understanding of the theoretical and empirical realities of the spatial aspects of crime Second the book provides readers with the practical tools necessary to conduct effective crime mapping and spatial analyses of crime This book covers the most current state of the art uses for GIS in the criminal justice system theoretical aspects of the geography of crime and practical instruction and exercises on how to use GIS to conduct crime mapping and spatial analysis of crime

*Risk Terrain Modeling* Joel M. Caplan, Leslie W. Kennedy, 2016-06-28 Imagine using an evidence based risk management model that enables researchers and practitioners alike to analyze the spatial dynamics of crime allocate resources and implement custom crime and risk reduction strategies that are transparent measurable and effective Risk Terrain Modeling RTM diagnoses the spatial attractors of criminal behavior and makes accurate forecasts of where crime will occur at the microlevel RTM informs decisions about how the combined factors that contribute to criminal behavior can be targeted connections to crime can be monitored spatial vulnerabilities can be assessed and actions can be taken to reduce worst effects As a diagnostic method RTM offers a statistically valid way to identify vulnerable places To learn more visit <http://www.riskterrainmodeling.com> and begin using RTM with the many free tutorials and resources

Crime Mapping and Spatial Data Analysis Using R Juanjo Medina, Reka Solymosi, 2023 Crime mapping and analysis sit at the intersection of geocomputation data visualisation and cartography spatial statistics environmental criminology and crime analysis This book brings together relevant knowledge from these fields into a practical hands on guide providing a useful introduction and reference material for topics in crime mapping the geography of crime environmental criminology and crime analysis It can be used by students practitioners and academics alike whether to develop a university course to support further training and development or to hone skills in self teaching R and crime mapping and spatial data analysis It is not an advanced statistics textbook but rather an applied guide and later useful reference books intended to be read and for readers to practice the learnings from each chapter in sequence In the first part



of this volume we introduce key concepts for geographic analysis and representation and provide the reader with the foundations needed to visualise spatial crime data We then introduce a series of tools to study spatial homogeneity and dependence A key focus in this section is how to visualise and detect local clusters of crime and repeat victimisation The final chapters introduce the use of basic spatial models which account for the distribution of crime across space In terms of spatial data analysis the focus of the book is on spatial point pattern analysis and lattice or area data analysis

**Geographic Information Systems and Crime Analysis** Fahui Wang, 2005-01-01 Computerized crime mapping or GIS in law enforcement agencies has experienced rapid growth particularly since the mid 1990s There has also been increasing interests in GIS analysis of crime from various academic fields including criminology geography urban planning information science and others This book features a diverse array of GIS applications in crime analysis from general issues such as GIS as a communication process and inter jurisdictional data sharing to specific applications in tracking serial killers and predicting juvenile violence Geographic Information Systems and Crime Analysis showcases a broad range of methods and techniques from typical GIS tasks such as geocoding and hotspot analysis to advanced technologies such as geographic profiling agent based modeling and web GIS Contributors range from university professors criminologists in research institutes to police chiefs GIS analysts in police departments and consultants in criminal justice

**GIS and Crime Mapping** Spencer Chainey, Jerry Ratcliffe, 2013-04-26 The growing potential of GIS for supporting policing and crime reduction is now being recognised by a broader community GIS can be employed at different levels to support operational policing tactical crime mapping detection and wider ranging strategic analyses With the use of GIS for crime mapping increasing this book provides a definitive reference GIS and Crime Mapping provides essential information and reference material to support readers in developing and implementing crime mapping Relevant case studies help demonstrate the key principles concepts and applications of crime mapping This book combines the topics of theoretical principles GIS analytical techniques data processing solutions information sharing problem solving approaches map design and organisational structures for using crime mapping for policing and crime reduction Delivered in an accessible style topics are covered in a manner that underpins crime mapping use in the three broad areas of operations tactics and strategy Provides a complete start to finish coverage of crime mapping including theory scientific methodologies analysis techniques and design principles Includes a comprehensive presentation of crime mapping applications for operational tactical and strategic purposes Includes global case studies and examples to demonstrate good practice Co authored by Spencer Chainey a leading researcher and consultant on GIS and crime mapping and Jerry Ratcliffe a renowned professor and former police officer This book is essential reading for crime analysts and other professionals working in intelligence roles in law enforcement or crime reduction at the local regional and national government levels It is also an excellent reference for undergraduate and Masters students taking courses in GIS Geomatics Crime Mapping Crime Science Criminal Justice and Criminology

Crime Mapping Irvin B. Vann, G. David Garson, 2003 This book provides an overview of the implementation and integration of GIS technology into various aspects of law enforcement including important mapping concepts and their use in crime analysis Crime mapping basics are discussed including pin mapping mapping hot spots mapping crime density and creating briefing maps Other topics include the integration of crime mapping with police decision making the use of various forms of spatial modeling in law enforcement and integrating inter agency data as part of a regional approach to crime A list of police agencies providing real crime data and analysis tools on the World Wide Web is also included

**Analytical Crime Mapping in an Urban Environment** Youngho Kim, 2003

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