

# Crime Mapping and Analysis Using GIS

C.P. JOHNSON

*Geomatics Group, C-DAC, Pune University Campus, Pune 411007*

*johnson@cdac.ernet.in*

## 1. Introduction

The traditional and age-old system of intelligence and criminal record maintenance has failed to live up to the requirements of the existing crime scenario. Manual processes neither provide accurate, reliable and comprehensive data round the clock nor does it help in trend prediction and decision support. It also results in lower productivity and ineffective utilisation of manpower. The solution to this ever-increasing problem lies in the effective use of Information Technology.

Geographic Information System (GIS) uses geography and computer-generated maps as an interface for integrating and accessing massive amounts of location-based information. GIS allows police personnel to plan effectively for emergency response, determine mitigation priorities, analyse historical events, and predict future events. GIS can also be used to get critical information to emergency responders upon dispatch or while en route to an incident to assist in tactical planning and response. GIS helps identify potential suspects to increase investigators suspect base when no leads are evident.

GIS plays an important role in crime mapping and analysis. Response capabilities often rely on a variety of data from multiple agencies and sources. The ability to access and process information quickly while displaying it in a spatial and visual medium allows agencies to allocate resources quickly and more effectively. In the 'mission-critical' nature of law enforcement, information about the location of a crime, incident, suspect, or victim is often crucial to determine the manner and size of the response. GIS software helps co-ordinate vast amounts of location-based data from multiple sources. It enables the user to layer the data and view the data most critical to the particular issue or mission. It is used world over by police departments, both large and small, to provide mapping solutions for crime analysis, criminal tracking, traffic safety, community policing, Intranet/Internet mapping, and numerous other tasks.

GIS helps crime officers determine potential crime sites by examining complex seemingly unrelated criteria and displaying them all in a graphical, layered, spatial interface or map. It also helps them map inmate populations, fixtures, and equipment to provide for the safety of inmates by separating gang members, identifying high-risk or potentially violent inmates, and identifying hazardous locations in an area. It reduces the potential for internal violence by providing better command and control. GIS functions, when combined with capabilities of location identification devices such as GPS facilitate tracking the movement of high-risk inmates or at-risk personnel throughout an area. It is more cost-effective for the crime analyst to come up with the information than for patrol officers to do it themselves.

# Crime Mapping And Analysis Using Gis C Dac

**Juan Medina Ariza,Reka Solymosi**



## **Crime Mapping And Analysis Using Gis C Dac:**

Proceedings of UASG 2021: Wings 4 Sustainability Kamal Jain,Vishal Mishra,Biswajeet Pradhan,2023-03-15 This volume gathers the latest advances innovations and applications in the field of geographic information systems and unmanned aerial vehicle UAV technologies as presented by leading researchers and engineers at the 2nd International Conference on Unmanned Aerial System in Geomatics UASG held in Roorkee India on April 2 4 2021 It covers highly diverse topics including photogrammetry and remote sensing surveying UAV manufacturing geospatial data sensing UAV processing visualization and management UAV applications and regulations geo informatics and geomatics The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists **Annual Report** India. Department of Information Technology,2008 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 Dataquest ,1999 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

*GIS Tutorial for Crime Analysis* Wilpen L. Gorr, Kristen S. Kurland, 2012 A computer workbook to teach crime mapping and analysis skills using ArcGIS Desktop software Includes a 180 day trial version of ArcGIS Desktop 10 software and exercise data

**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

*Crime Analysis With Crime Mapping* Rachel Boba Santos, 2012-02-29 In this text Santos criminal justice Florida Atlantic U covers theories practice data and analysis techniques associated with crime mapping and crime analysis The first two parts of the text describe the field s theoretical foundations and detail the crime analysis process Part 3 describes the data techniques and products of tactical crime analysis and part 4 explains techniques used in analyzing long term crime and disorder problems offering case examples Part 5 considers administrative crime analysis Revised to reflect current research and methods this third edition provides a new typology that categorizes crime analysis results by the type of problem examined the purpose of the analysis and the type of audience for which the results are produced Also new are profiles of professionals The text is illustrated with b w and two color charts maps and aerial photos The student website provides police reports links to journal articles and a link to ATAC software which allows students to conduct crime analysis themselves The instructor website offers tests slides syllabi and assignments Annotation 2012 Book News Inc Portland OR booknews com

*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

**Introduction to Crime Analysis and Mapping** Jeffrey Strickland, 2014-05-15 Crime analysis is both a profession and a set of techniques The professionals who perform crime analysis and the techniques they use are dedicated to helping a police department become more effective through better information Crime mapping is used by analysts in law enforcement agencies to map visualize and analyze crime incident patterns It is a key component of crime analysis and the CompStat policing strategy Mapping crime using Geographic Information Systems GIS allows crime analysts to identify crime hot spots along with other trends and patterns This book focuses mostly on crime analysis mapping but includes a discussion of predictive modeling a special handling of modeling terrorism and appendices which include a review of probability and statistics and possible board questions The book is not intended to be all inclusive nor does it handle the subjects in depth Rather it is more of a survey of a few crime analysis topics that are dealt with more rigorously by other authors

**Mapping Crime** Keith D. Harries, 1995

**Fundamentals of Crime Mapping: Principles and Practice** Rebecca Paynich, Bryan Hill, 2009-04-16 Fundamentals of

Crime Mapping introduces the topic of crime mapping and the history of GIS in law enforcement This valuable text includes a workbook for hands on instruction Special topics discussed include an up to date discussion of the current crime trends in rural and urban areas the major ecological theories of crime the notion of geographic profiling empirical research using crime mapping tools basic mapping terminology and more *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 *Mapping and Analysing Crime Data* Alex Hirschfield,Kate Bowers,2001-04-26 One of the key methods of reducing and dealing with criminal activity is to accurately gauge and then analyse the geographical distribution of crime from small scale to large scale areas Once the police and government know what areas suffer most from criminal activity they can assess why this is the case and then deal with it in the most effecti *Mapping Crime in Its Community Setting* Michael Maltz,Andrew C. Gordon,Warren Friedman,1991 Gathering accurate data probably constitutes one of the most important aspects of crime investigation and prevention How do we put the data to use How can we improve our methods of handling the information we collect By describing a project for the development and implementation of a computerized crime mapping system in the Chicago area this book makes a significant contribution toward a more efficient and intelligent use of crime data to understand and prevent crime in a community setting *Crime Analysis and Crime Mapping* Rachel Boba,Rachel Boba Santos,2005-07-08 Crime analysis is an emerging profession in policing and a growing topic of interest in the criminal justice field This book offers a thorough introduction to the field as well as guidelines for its practice making it a useful asset for current and future crime analysts and police practitioners as well as for students **Crime Analysis with Crime Mapping** Rachel Boba,Rachel Boba Santos,2009 *Crime Analysis with Crime Mapping* 2nd Edition provides a basic introduction to crime analysis with crime mapping data and techniques for students and practitioners Instead of focusing on specific technology or the use of it the text focuses on concepts and practical examples of the concepts As the only introductory core text book for crime analysis and mapping this comprehensive text is one that every crime analyst should read and have on his or her shelf for review and reference Book Jacket **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     Fundamentals of Crime Mapping Rebecca Paynich,Bryan Hill,2013-03-18 The Second Edition of the popular Fundamentals of Crime Mapping Principles and Practice walks readers through the research theories and history of GIS in law enforcement This accessible text explains the day to day practical application of crime analysis for mapping Factual data from real crime analysis is included to reflect actual crime patterns trends series and what an officer or analyst can expect to see when he or she sits down to analyze and apply concepts learned Special topics discussed include an up to date discussion of the current crime trends in rural and urban areas the major ecological theories of crime the notion of geographic profiling empirical research using crime mapping tools basic mapping terminology and more New to the Second Edition All exercises and examples have been updated to reflect ArcGIS 10 0 and Excel 2010 Includes a workbook with engaging exercises to offer hands on application of the material All exercises and graphics have been updated to account for ArcGIS 10 0 and Excel 2010 though all exercises and examples for Excel 2007 remain Contains a NEW chapter discussing the various types of policing with an emphasis on the Compstat process intelligence led policing and problem oriented policing     **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

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