

# Crime Data Mining: An Overview and Case Studies

Hsinchun Chen, Wingyan Chung, Yi Qin, Michael Chau, Jennifer Jie Xu, Gang Wang, Rong Zheng,  
Homa Atabakhsh

{hchen, wchung, yiqin, mchau, jsxu, gang, rong, homa}@bpa.arizona.edu

Artificial Intelligence Lab, Department of Management Information Systems, University of Arizona,  
Tucson, AZ 85721, USA

<http://ai.bpa.arizona.edu/>

**Abstract.** The concern about national security has increased significantly since the 9/11 attacks. However, information overload hinders the effective analysis of criminal and terrorist activities. Data mining applied in the context of law enforcement and intelligence analysis holds the promise of alleviating such problems. In this paper, we review crime data mining techniques and present four case studies done in our ongoing COPLINK project.

## 1. Introduction

The concern about national security has increased significantly since the terrorist attacks on September 11, 2001. Intelligence agencies such as the CIA and FBI are actively collecting and analyzing information to investigate terrorists' activities. Local law enforcement agencies have also become more alert to criminal activities in their own jurisdictions. One challenge to law enforcement and intelligence agencies is the difficulty of analyzing large volumes of data involved in criminal and terrorist activities. Data mining holds the promise of making it easy, convenient, and practical to explore very large databases for organizations and users. In this paper, we review data mining techniques applied in the context of law enforcement and intelligence analysis, and present four case studies done in our ongoing COPLINK project (Hauck et al., 2002).

## 2. An Overview of Crime Data Mining

It is useful to review crime data mining in two dimensions: (1) crime types and security concerns and (2) crime data mining approaches and techniques.

### 2.1 Crime Types and Security Concerns

*Crime* is defined as "an act or the commission of an act that is forbidden, or the omission of a duty that is commanded by a public law and that makes the offender liable to punishment by that law" (Webster Dictionary). An act of crime encompasses a wide range of activities, ranging from simple violation of civic duties (e.g., illegal parking) to internationally organized crimes (e.g., the 9/11 attacks). Table 1 summarizes the different types of crimes in increasing degree of public influence. Note that both local and national law enforcement and security agencies are facing many similar challenges.

### 2.2 Crime Data Mining Approaches and Techniques

Data mining is defined as the identification of interesting structure in data, where structure designates patterns, statistical or predictive models of the data, and relationships among parts of the data (Fayyad & Uthurusamy, 2002). Data mining in the context of crime and intelligence analysis for national security is still a young field. The following describes our applications of different techniques in crime data mining. *Entity extraction* has been used to automatically identify person, address, vehicle, narcotic drug, and personal properties from police narrative reports (Chau et al., 2002). *Clustering techniques* such as "concept space" have been used to automatically associate different objects (such as persons, organizations, vehicles) in crime records (Hauck et al., 2002). *Deviation detection* has been applied in fraud detection, network intrusion detection, and other crime analyses that involve tracing abnormal activities. *Classification* has been used to detect email spamming and find authors who send out unsolicited emails (de Wel et al., 2001). *String comparator* has been used to detect deceptive information

# Crime Data Mining An Overview And Case Studies

**Leo P. Chall**



## **Crime Data Mining An Overview And Case Studies:**

INTRODUCTION TO DATA MINING WITH CASE STUDIES GUPTA, G.K.,2014-06-28 The field of data mining provides techniques for automated discovery of valuable information from the accumulated data of computerized operations of enterprises This book offers a clear and comprehensive introduction to both data mining theory and practice It is written primarily as a textbook for the students of computer science management computer applications and information technology The book ensures that the students learn the major data mining techniques even if they do not have a strong mathematical background The techniques include data pre processing association rule mining supervised classification cluster analysis web data mining search engine query mining data warehousing and OLAP To enhance the understanding of the concepts introduced and to show how the techniques described in the book are used in practice each chapter is followed by one or two case studies that have been published in scholarly journals Most case studies deal with real business problems for example marketing e commerce CRM Studying the case studies provides the reader with a greater insight into the data mining techniques The book also provides many examples review questions multiple choice questions chapter end exercises and a good list of references and Web resources especially those which are easy to understand and useful for students A number of class projects have also been included

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the conferencing system allowed for an unlimited number of participants which in turn granted CISSE the opportunity to allow all participants to attend all presentations as opposed to limiting the number of available seats for each session

**Fraud Detection in White-Collar Crime** Rohan Ahmed,2018-06-28 Bachelor Thesis from the year 2017 in the subject Computer Science Commercial Information Technology grade 1 3 Heilbronn University language English abstract White collar crime is and has always been an urgent issue for the society In recent years white collar crime has increased dramatically by technological advances The studies show that companies are affected annually by corruption balance sheet manipulation embezzlement criminal insolvency and other economic crimes The companies are usually unable to identify the damage caused by fraudulent activities To prevent fraud companies have the opportunity to use intelligent IT approaches The data analyst or the investigator can use the data which is stored digitally in today s world to detect fraud In the age of Big Data digital information is increasing enormously Storage is cheap today and no longer a limited medium The estimates assume that today up to 80 percent of all operational information is stored in the form of unstructured text documents This bachelor thesis examines Data Mining and Text Mining as intelligent IT approaches for fraud detection in white collar crime Text Mining is related to Data Mining For a differentiation the source of the information and the structure is important Text Mining is mainly concerned with weak or unstructured data while Data Mining often relies on structured sources At the beginning of this bachelor thesis an insight is first given on white collar crime For this purpose the three essential tasks of a fraud management are discussed Based on the fraud triangle of Cressey it is showed which conditions need to come together so that an offender commits a fraudulent act Following some well known types of white collar crime are considered in more detail Text Mining approach was used to demonstrate how to extract potentially useful knowledge from unstructured text For this purpose two self generated e mails were converted into struc tured format Moreover a case study will be conducted on fraud detection in credit card da taset The dataset contains legitimate and fraudulent transactions Based on a literature research Data Mining techniques are selected and then applied on the dataset by using various sampling techniques and hyperparameter optimization with the goal to identify correctly pre dicted fraudulent transactions The CRISP DM reference model was used as a methodical procedure *Data Mining Techniques in Grid Computing Environments* Werner Dubitzky,2008-12-22 Based around eleven international real life case studies and including contributions from leading experts in the field this groundbreaking book explores the need for the grid enabling of data mining applications and provides a comprehensive study of the technology techniques and management skills necessary to create them This book provides a simultaneous design blueprint user guide and research agenda for current and future developments and will appeal to a broad audience from developers and users of data mining and grid technology to advanced undergraduate and postgraduate students interested in this field *A Data Mining Approach to Identify Perpetrators* Li Ding,2010 Data mining and social network analysis have been widely used in law enforcement to solve crimes Research questions such as strength of

ties in social networks crime pattern discovery and prioritizing offenders have been studied in this area However most of those studies failed to consider the noisy nature of the data The techniques they proposed only have been applied to small scale data sets Therefore it is an important task to design a framework that can work on large scale data sets and tolerance noisy data In this dissertation we built an integrated crime detection framework that combined two data mining techniques decision tree and genetic algorithm and graph theories to solve the problems we pointed out Our crime pattern analysis is based on all offenders of the state of Alabama in the past 50 years Our constructed social network contains all Alabama residents It allows us to fully evaluate the proposed models Two case studies have been conducted to evaluate the framework One is based on 625 inmates released from Madison county jail in 2004 Our experimental results show that our recommended risk level has strong correlation in predicting future offense Another case study is based on the 100 real police reports The experimental results show that the median ranking of arrestees remains at the top 3% of the return list

*American Book Publishing Record* ,2007 Managing Local Government Services Carl W. Stenberg,Susan Lipman Austin,2007 *Studies and Reports* ,1928 Government Reports Announcements & Index ,1980 **The American Historical Association's Guide to Historical Literature** American Historical Association,1995 Contains nearly 2 000 annotated citations primarily English language works divided into forth eight sections citations refer chiefly to works published between 1961 and 1992 **The Social Impact Assessment in Integrated Rural Development Projects** Gloria Azul Agas,1984 **The Next War Zone** James F. Dunnigan,2002 This is a shocking and provocative foray into the next battleground in the war on terrorism from ex CIA consultant and military consultant James F Dunnigan now a news analyst for three major television networks Exposing the truth about Cyberwarfare the battle for control of the Internet and the large part of our economy that now depends on this network of computers this book delves into the history of this very new and very real threat explains the full extent of our vulnerability and explains what our governments can and must do to prevent this insidious attack **University Studies** ,1924 **Encyclopedia of Social Measurement: P-Y, Index** Kimberly Kempf Leonard,2005 The Encyclopedia of Social Measurement captures the data techniques theories designs applications histories and implications of assigning numerical values to social phenomena Responding to growing demands for transdisciplinary descriptions of quantitative and qualitative techniques measurement sampling and statistical methods it will increase the proficiency of everyone who gathers and analyzes data Covering all core social science disciplines the 300 articles of the Encyclopedia of Social Measurement not only present a comprehensive summary of observational frameworks and mathematical models but also offer tools background information qualitative methods and guidelines for structuring the research process Articles include examples and applications of research strategies and techniques highlighting multidisciplinary options for observing social phenomena The alphabetical arrangement of the articles their glossaries and cross references and the volumes detailed index will encourage exploration across the social sciences Descriptions of

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## Whispering the Secrets of Language: An Mental Journey through **Crime Data Mining An Overview And Case Studies**

In a digitally-driven world wherever screens reign great and instant conversation drowns out the subtleties of language, the profound strategies and mental subtleties concealed within phrases usually get unheard. Yet, nestled within the pages of **Crime Data Mining An Overview And Case Studies** a interesting literary value pulsating with natural feelings, lies a fantastic quest waiting to be undertaken. Composed by a talented wordsmith, that charming opus encourages visitors on an introspective trip, softly unraveling the veiled truths and profound influence resonating within ab muscles material of every word. Within the psychological depths of this touching review, we will embark upon a genuine exploration of the book is primary styles, dissect its fascinating writing fashion, and yield to the powerful resonance it evokes strong within the recesses of readers hearts.

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### **Table of Contents Crime Data Mining An Overview And Case Studies**

1. Understanding the eBook Crime Data Mining An Overview And Case Studies
  - The Rise of Digital Reading Crime Data Mining An Overview And Case Studies
  - Advantages of eBooks Over Traditional Books
2. Identifying Crime Data Mining An Overview And Case Studies
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Crime Data Mining An Overview And Case Studies
  - User-Friendly Interface
4. Exploring eBook Recommendations from Crime Data Mining An Overview And Case Studies

- Personalized Recommendations
  - Crime Data Mining An Overview And Case Studies User Reviews and Ratings
  - Crime Data Mining An Overview And Case Studies and Bestseller Lists
5. Accessing Crime Data Mining An Overview And Case Studies Free and Paid eBooks
    - Crime Data Mining An Overview And Case Studies Public Domain eBooks
    - Crime Data Mining An Overview And Case Studies eBook Subscription Services
    - Crime Data Mining An Overview And Case Studies Budget-Friendly Options
  6. Navigating Crime Data Mining An Overview And Case Studies eBook Formats
    - ePub, PDF, MOBI, and More
    - Crime Data Mining An Overview And Case Studies Compatibility with Devices
    - Crime Data Mining An Overview And Case Studies Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Crime Data Mining An Overview And Case Studies
    - Highlighting and Note-Taking Crime Data Mining An Overview And Case Studies
    - Interactive Elements Crime Data Mining An Overview And Case Studies
  8. Staying Engaged with Crime Data Mining An Overview And Case Studies
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Crime Data Mining An Overview And Case Studies
  9. Balancing eBooks and Physical Books Crime Data Mining An Overview And Case Studies
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Crime Data Mining An Overview And Case Studies
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Crime Data Mining An Overview And Case Studies
    - Setting Reading Goals Crime Data Mining An Overview And Case Studies
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Crime Data Mining An Overview And Case Studies

- Fact-Checking eBook Content of Crime Data Mining An Overview And Case Studies
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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