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Exposing Fraud: Skills, Process and Practicalities is a working resource book, containing practical advice on how to conduct a fraud investigation, combined with a solid background of essential theories, the law, and related definitions. Highly-regarded anti-fraud expert and trainers Ian Ross and Jose Chacko go beyond the basic techniques of fraud investigation, and show the reader how to apply those techniques effectively in real-life situations. Fraud investigators will be given the tools to investigate criminals who may be running multiple scams at the same time; they will find out how to manage an investigation and gather evidence to achieve the best possible outcome; finally, they will be shown how to take into consideration the cultural and psychological factors which influence fraudsters, as well as those factors which may represent a stumbling block to their own effectiveness. Topics covered include: key fraud definitions key types and variants of fraud, including cyber fraud concepts of fraud behaviour: the psychology of fraud, impulsive fraud, systemic fraud, organised fraud conducting investigations: aims and objectives, essential skills, effective resourcing, ethical conduct, overcoming personal or cultural barriers, and appraising the corporate culture the importance of data analysis in fraud detection techniques in data analysis for fraud detection responses to fraud: dealing with fraud behaviour rather than type, handling intelligence and assessing evidence, dealing with different levels of fraud, from 'one-hit' cases through to complex investigations investigative interviewing: objectives, information capture, overcoming problems such as relevance filtering and confirmation bias, the PEACE model of interviewing, and avoiding false confessions prioritising and presenting the evidence: avoiding 'bad duplication', promoting data integrity, and reporting effectively

case outcome and disposal; recovery of losses, civil and/or criminal proceedings managing the business risk of fraud

A powerful new tool for all forensic accountants, or anyone whoanalyzes data that may have been altered Benford's Law gives the expected patterns of the digits in thenumbers in tabulated data such as town and city populations orMadoff's fictitious portfolio returns. Those digits, in unaltereddata, will not occur in equal proportions; there is a large biastowards the lower digits, so much so that nearly one-half of allnumbers are expected to start with the digits 1 or 2. Thesepatterns were originally discovered by physicist Frank Benford inthe early 1930s, and have since been found to apply to alltabulated data. Mark J. Nigrini has been a pioneer in applyingBenford's Law to auditing and forensic accounting, even before hisgroundbreaking 1999 Journal of Accountancy article introducing thisuseful tool to the accounting world. In Benford's Law, Nigrinishows the widespread applicability of Benford's Law and itspractical uses to detect fraud, errors, and other anomalies. Explores primary, associated, and advanced tests,

all describedwith data sets that include corporate payments data and electiondata Includes ten fraud detection studies, including vendor fraud,payroll fraud, due diligence when purchasing a business, and taxevasion Covers financial statement fraud, with data from Enron, AIG,and companies that were the target of hedge fund short sales Looks at how to detect Ponzi schemes, including data on Madoff,Waxenberg, and more Examines many other applications, from the Clinton tax returnsand the charitable gifts of Lehman Brothers to tax evasion andnumber invention Benford's Law has 250 figures and uses 50 interestingauthentic and fraudulent real-world data sets to explain boththeory and practice, and concludes with an agenda and directionsfor future research. The companion website adds additionalinformation and resources.

Discover how to detect fraud, biases, or errors in your data using Access or Excel With over 300 images, Forensic Analytics reviews and shows how twenty substantive and rigorous tests can be used to detect fraud, errors, estimates, or biases in your data. For each test, the original data is shown

with the steps needed to get to the final result. The tests range from high-level data overviews to assess the reasonableness of data, to highly focused tests that give small samples of highly suspicious transactions. These tests are relevant to your organization, whether small or large, for profit, nonprofit, or government-related. Demonstrates how to use Access, Excel, and PowerPoint in a forensic setting Explores use of statistical techniques such as Benford's Law, descriptive statistics, correlation, and time-series analysis to detect fraud and errors Discusses the detection of financial statement fraud using various statistical approaches Explains how to score locations, agents, customers, or employees for fraud risk Shows you how to become the data analytics expert in your organization Forensic Analytics shows how you can use Microsoft Access and Excel as your primary data interrogation tools to find exceptional, irregular, and anomalous records.

Detect fraud earlier to mitigate loss and prevent cascading damage Fraud Analytics Using Descriptive, Predictive, and Social Network Techniques is an authoritative guidebook for setting up a compre-

hensive fraud detection analytics solution. Early detection is a key factor in mitigating fraud damage, but it involves more specialized techniques than detecting fraud at the more advanced stages. This invaluable guide details both the theory and technical aspects of these techniques, and provides expert insight into streamlining implementation. Coverage includes data gathering, preprocessing, model building, and post–implementation, with comprehensive guidance on various learning techniques and the data types utilized by each. These techniques are effective for fraud detection across industry boundaries, including applications in insurance fraud, credit card fraud, anti–money laundering, healthcare fraud, telecommunications fraud, click fraud, tax evasion, and more, giving you a highly practical framework for fraud prevention. It is estimated that a typical organization loses about 5% of its revenue to fraud every year. More effective fraud detection is possible, and this book describes the various analytical techniques your organization must implement to put a stop to the revenue leak. Examine fraud patterns in historical

data Utilize labeled, unlabeled, and networked data Detect fraud before the damage cascades Reduce losses, increase recovery, and tighten security The longer fraud is allowed to go on, the more harm it causes. It expands exponentially, sending ripples of damage throughout the organization, and becomes more and more complex to track, stop, and reverse. Fraud prevention relies on early and effective fraud detection, enabled by the techniques discussed here. Fraud Analytics Using Descriptive, Predictive, and Social Network Techniques helps you stop fraud in its tracks, and eliminate the opportunities for future occurrence.

"When people ask me what they can do to better utilize ACL, I tellthem, 'Take an instructor lead course, participate in the ACLForum, and study (not read, study) David Coderre's Fraud AnalysisTechniques Using ACL.' I studied this book, and would not be whereI am today without it. Even without the anti-fraud material, thebook is worth the investment as a tool to learning ACL!" —Porter Broyles, President and founder of the TexasACL User Group, Keynote

Speaker at ACL's 2009 San FranciscoConference, Official ACL Super User "For individuals interested in learning about fraud analysistechniques or the art of ACL scripting, this book is a must-read.For those individuals interested in learning both, this book is atreasure." —Jim Hess, Principal, Hess Group, LLC Your very own ACL Fraud Toolkit—at yourfingertips Fraud Analysis Techniques Using ACL offers auditors andinvestigators: Authoritative guidance from David Coderre, renowned expert onthe use of computer-assisted audit tools and techniques in frauddetection A website containing an educational version of ACL from theworld leader in fraud detection software An accompanying website containing a thorough Fraud Toolkitwith two sets of customizable scripts to serve your specific audit-needs Case studies and sample data files that you can use to try outthe tests Step-by-step instructions on how to run the tests A self-study course on ACL script development with exercises,data files, and suggested answers The toolkit also contains 12 'utility scripts' and a self-studycourse on ACL scripting which includes exercises, data files, andpro-

posed answers. Filled with screen shots, flow charts, example data files, anddescriptive commentary highlighting and explaining each step, aswell as case studies offering real--world examples of how thescripts can be used to search for fraud, Fraud Analysis TechniquesUsing ACL is the only toolkit you will need to harness the power ofACL to spot fraud.

Forensic Accounting provides comprehensive coverage of fraud detection and deterrence and includes the broader educational material of the forensic accounting field with all the necessary accompaniments. The text follows the model curriculum for education in fraud and forensic funded by the U.S. national Institute of Justice and developed by a Technical Working Group of experts in the field. The text serves as a comprehensive and authoritative resource for teaching forensic accounting concepts and procedures that is also and appropriate and pedagogically ready for class room use. This easy to read, comprehensive textbook includes case study examples to clearly explain technical concepts and bring the material to life. Proven guidance for ex-

pertly using analytics in fraud examinations, financial analysis, auditing and fraud prevention Fraud Analytics thoroughly reveals the elements of analysis that are used in today's fraud examinations, fraud investigations, and financial crime investigations. This valuable resource reviews the types of analysis that should be considered prior to beginning an investigation and explains how to optimally use data mining techniques to detect fraud. Packed with examples and sample cases illustrating pertinent concepts in practice, this book also explores the two major data analytics providers: ACL and IDEA. Looks at elements of analysis used in today's fraud examinations Reveals how to use data mining (fraud analytic) techniques to detect fraud Examines ACL and IDEA as indispensable tools for fraud detection Includes an abundance of sample cases and examples Written by Delena D Spann, Board of Regent (Emeritus) for the Association of Certified Fraud Examiners (ACFE), who currently serves as Advisory Board Member of the Association of Certified Fraud Examiners, Board Member of the Education Task Force of the Association of Cer-

tified Anti-Money Laundering Specialists ASIS International (Economic Crime Council) and Advisory Board Member of the Robert Morris University (School of Business), Fraud Analytics equips you with authoritative fraud analysis techniques you can put to use right away.

Insider Threats in Cyber Security is a cutting edge text presenting IT and non-IT facets of insider threats together. This volume brings together a critical mass of well-established worldwide researchers, and provides a unique multidisciplinary overview. Monica van Huystee, Senior Policy Advisor at MCI, Ontario, Canada comments "The book will be a must read, so of course I'll need a copy." Insider Threats in Cyber Security covers all aspects of insider threats, from motivation to mitigation. It includes how to monitor insider threats (and what to monitor for), how to mitigate insider threats, and related topics and case studies. Insider Threats in Cyber Security is intended for a professional audience composed of the military, government policy makers and banking; financing companies focusing on the Secure Cyberspace industry. This

book is also suitable for advanced-level students and researchers in computer science as a secondary text or reference book.

This highly regarded reference is relied on by a considerable part of the accounting profession in their day-to-day work. This handbook is the first place accountants, auditors, bankers, lawyers, financial analysts, and other preparers and users of accounting information look to find answers to questions on accounting and financial reporting. The new edition will be updated to reflect the new FASB Codification, as well as including expanded coverage of fair value and guidance on developing fair value estimates, fraud risk and exposure, healthcare, and IFRS.

"Mesmerizing & fascinating..." —The Seattle Post-Intelligencer "The Freakonomics of big data." —Stein Kretsinger, founding executive of Advertising.com Award-winning | Used by over 30 universities | Translated into 9 languages An introduction for everyone. In this rich, fascinating — surprisingly accessible — introduction, leading expert Eric Siegel reveals how predictive analytics (aka machine learn-ing) works, and how it affects everyone every day. Rather than a "how to" for hands-on techies, the book serves lay readers and experts alike by covering new case studies and the latest state-of-the-art techniques. Prediction is booming. It reinvents industries and runs the world. Companies, governments, law enforcement, hospitals, and universities are seizing upon the power. These institutions predict whether you're going to click, buy, lie, or die. Why? For good reason: predicting human behavior combats risk, boosts sales, fortifies healthcare, streamlines manufacturing, conquers spam, optimizes social networks, toughens crime fighting, and wins elections. How? Prediction is powered by the world's most potent, flourishing unnatural resource: data. Accumulated in large part as the by-product of routine tasks, data is the unsalted, flavorless residue deposited en masse as organizations churn away. Surprise! This heap of refuse is a gold mine. Big data embodies an extraordinary wealth of experience from which to learn. Predictive analytics (aka machine learning) unleashes the power of data. With this technology, the com-puter literally learns from data how to predict the future behavior of individuals. Perfect prediction is not possible, but putting odds on the future drives millions of decisions more effectively, determining whom to call, mail, investigate, incarcerate, set up on a date, or medicate. In this lucid, captivating introduction — now in its Revised and Updated edition — former Columbia University professor and Predictive Analytics World founder Eric Siegel reveals the power and perils of prediction: What type of mortgage risk Chase Bank predicted before the recession. Predicting which people will drop out of school, cancel a subscription, or get divorced before they even know it themselves. Why early retirement predicts a shorter life expectancy and vegetarians miss fewer flights. Five reasons why organizations predict death — including one health insurance company. How U.S. Bank and Obama for America calculated the way to most strongly persuade each individual. Why the NSA wants all your data: machine learning supercomputers to fight terrorism. How IBM's Watson computer used predictive modeling to answer questions and beat the human

champs on TV's Jeopardy! How companies ascertain untold, private truths — how Target figures out you're pregnant and Hewlett-Packard deduces you're about to quit your job. How judges and parole boards rely on crime-predicting computers to decide how long convicts remain in prison. 182 examples from Airbnb, the BBC, Citibank, ConEd, Facebook, Ford, Google, the IRS, LinkedIn, Match.com, MTV, Netflix, PayPal, Pfizer, Spotify, Uber, UPS, Wikipedia, and more. How does predictive analytics work? This jam-packed book satisfies by demystifying the intriguing science under the hood. For future hands-on practitioners pursuing a career in the field, it sets a strong foundation, delivers the prerequisite knowledge, and whets your appetite for more. A truly omnipresent science, predictive analytics constantly affects our daily lives. Whether you are a consumer of it — or consumed by it — get a handle on the power of Predictive Analytics.

Help your students understand the growing significance of fraud in today's accounting world as the latest edition of this engaging text teaches how to identify, detect, investigate, and prevent financial fraud. FRAUD EXAMINATION 4E closely examines the nature of fraud using memorable business examples and captivating actual fraud including recent developments in e-business fraud. Students explore how technology is increasingly involved in fraud and how it can be used to detect fraud as well as what the legal options are for victims of fraud. Significant new discussion of forensic analysis expands students' understanding of the field, while a fresh, clean design increases readability and student appeal. New learning features and strong end-of-chapter exercises draw attention to the most important information and drive critical thinking. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. – How to measure your organization's fraud risks – Detecting fraud before it's too late – Little-known frauds that cause major losses – Simple but powerful anti-fraud controls Proven guidance for fraud detection and prevention in a practical workbook format An excellent primer for developing and implementing an anti-fraud program, Anti-Fraud Risk and Control Workbook engages readers in an absorbing self- paced learning experience to develop familiarity with the practical aspects of fraud detection and prevention. Whether you are an internal or external auditor, accountant, senior financial executive, accounts payable professional, credit manager, or financial services manager, this invaluable resource provides you with timely discussion on: Why no organization is immune to fraud The human element of fraud Internal fraud at employee and management levels Conducting a successful fraud risk assessment Basic fraud detection tools and techniques Advanced fraud detection tools and techniques Written by a recognized expert in the field of fraud detection and prevention, this effective workbook is filled with interactive exercises, case studies, and chapter quizzes and shares industry-tested methods for detecting, preventing, and reporting fraud. Discover how to become more effective in protecting your organization against financial fraud with the essential techniques and tools in Anti-Fraud Risk and Control Workbook.

Get the latest tools in fraud auditing and get rid of fraud in your organization With the responsibility of detecting and preventing fraud placed directly on the accounting profession, you are responsible for recognizing fraud and learning the tools and strategies necessary to stop it. Fraud Auditing and Forensic Accounting, Third Edition shows you how to develop an investigative eye toward both internal and external fraud and provides crucial information on how to deal with it when discovered. This authoritative, timely book equips auditors, investigators, corporate attorneys, and accountants to identify the signs of financial fraud and successfully investigate it. This new edition will enable you to: Recognize the characteristics of organizations in which fraud is likely to occur Detect and deter accounting fraud, using the most recently developed techniques Conduct an efficient, systematic fraud investigation Use the latest methods for documenting fraud and preparing evidence-and much more PRAISE FOR Fraud Auditing and Forensic Accounting, Third Edition "An excellent primer for developing and implementing an antifraud program as part

of a SOX 404, fraud prevention and detection process. A clear and concise history of fraud and the methods needed to deter it now and for the future. It is like having a professor on call and in your office when you need one. Well written with easy-to-understand definitions and examples, this is a must-read for anyone who is putting a financial investigation unit in place." —George Mullins, CFE, HealthSouthInternal Audit Manager and Project Manager, Antifraud Program "The book is an excellent anti-fraud resource for those professionals charged with the responsibility of detecting, investigating, and preventing fraud. I also highly recommend it to educators as a prospective textbook for a semester-long course in macro fraud examination." —Thomas Buckhoff, PhD, CPA, CFE, Associate Professor of Forensic Accounting, Georgia Southern University, and Principal, FraudWise, LLC "This book, better than any other in print, hits the subject areas I cover in my fraud examination and forensic accounting class. The authors have done a great job of presenting complicated terms and techniques in a manner for students to unders-

tand. I particularly like the presentation of a fraud's endgame, namely the court case that recovers assets and puts these creeps in jail." —Douglas E. Ziegenfuss, Professor and Chair, Department of Accounting,Old Dominion University
Delve into the mind of a fraudster to beat them at their own game Corporate Fraud Handbook details the many forms of fraud to help you identify red flags and prevent fraud before it occurs. Written by the founder and chairman of the Association of Certified Fraud Examiners (ACFE), this book provides indispensable guidance for auditors, examiners, managers, and criminal investigators: from asset misappropriation, to corruption, to financial statement fraud, the most common schemes are dissected to show you where to look and what to look for. This new fifth edition includes the all-new statistics from the ACFE 2016 Report to the Nations on Occupational Fraud and Abuse, providing a current look at the impact of and trends in fraud. Real-world case studies submitted to the ACFE by actual fraud examiners show how different scenarios play out in practice, to help you build an effective an-

ti-fraud program within your own organization. This systematic examination into the mind of a fraudster is backed by practical guidance for before, during, and after fraud has been committed; you'll learn how to stop various schemes in their tracks, where to find evidence, and how to quantify financial losses after the fact. Fraud continues to be a serious problem for businesses and government agencies, and can manifest in myriad ways. This book walks you through detection, prevention, and aftermath to help you shore up your defenses and effectively manage fraud risk. Understand the most common fraud schemes and identify red flags Learn from illustrative case studies submitted by anti-fraud professionals Ensure compliance with Sarbanes-Oxley and other regulations Develop and implement effective anti-fraud measures at multiple levels Fraud can be committed by anyone at any level—employees, managers, owners, and executives—and no organization is immune. Anti-fraud regulations are continually evolving, but the magnitude of fraud's impact has yet to be fully realized. Corporate Fraud Hand-

book provides exceptional coverage of schemes and effective defense to help you keep your organization secure.

Myth-busting guidance for fraud preventionin a practical workbook format An excellent primer for developing and implementing an anti-fraud program that works, Financial Services Anti-Fraud Risk and Control Workbook engages readers in an absorbing self-paced learning experience to develop familiarity with the practical aspects of fraud detection and prevention at banks, investment firms, credit unions, insurance companies, and other financial services providers. Whether you are a bank executive, auditor, accountant, senior financial executive, financial services operations manager, loan officer, regulator, or examiner, this invaluable resource provides you with essential coverage of: How fraudsters exploit weaknesses in financial services organizations How fraudsters think and operate The tell-tale signs of different types of internal and external fraud against financial services companies Detecting corruption schemes such as bribery, kickbacks, and conflicts of interest, and the many in-

novative forms of financial records manipulation Conducting a successful fraud risk assessment Basic fraud detection tools and techniques for financial services companies, auditors, and investigators Fraud prevention lessons from the financial meltdown of 2007-2008 Written by a recognized expert in the field of fraud detection and prevention, this effective workbook is filled with interactive exercises, case studies, and chapter quizzes, and shares industry-tested methods for detecting, preventing, and reporting fraud. Discover how to mitigate fraud risks in your organization with the myth-busting techniques and tools in Financial Services Anti-Fraud Risk and Control Workbook.

Analyzing data sets has continued to be an invaluable application for numerous industries. By combining different algorithms, technologies, and systems used to extract information from data and solve complex problems, various sectors have reached new heights and have changed our world for the better. The Handbook of Research on Engineering, Business, and Healthcare Applications of Data Science and Analytics is a collection of innovative re-

search on the methods and applications of data analytics. While highlighting topics including artificial intelligence, data security, and information systems, this book is ideally designed for researchers, data analysts, data scientists, healthcare administrators, executives, managers, engineers, IT consultants, academicians, and students interested in the potential of data application technologies.

Provide today's learners with a solid understanding of how to audit accounting information systems with the innovative INFORMATION TECHNOLOGY AUDITING, 4E. New and expanded coverage of enterprise systems and fraud and fraud detection topics, such as continuous online auditing, help learners focus on the key topics they need for future success. Readers gain a strong background in traditional auditing, as well as a complete understanding of auditing today's accounting information systems in the contemporary business world. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This textbook provides an overview of the major types of fraud and corrupt activities found in private and public agencies, as well as the various methods used to prevent fraud and corruption. It explores where opportunities for fraud exist, the personal characteristics of those who engage in fraud, as well as their prevention and control. This work covers fraud in the financial sector, insurance, health care, and police organizations, as well as cybercrime. It covers the relationship between fraud, corruption, and terrorism; criminal networks; and major types of personal scams (like identity theft and phishing). Finally, it covers the prevention and control of fraud, through corporate whistle blowing, investigative reporting, forensic accounting, and educating the public. This work will be of interest to graduate-level students (as well as upper-level undergraduates) in Criminology & Criminal Justice, particularly with a focus on white collar and corporate crime, as well as related fields like business and management.

Internal Audit: Efficiency Through Automation teaches state-of-the-art computer-aided audit techniques, with practical guidelines on how to get much needed data, overcome organizational roadblocks, build data analysis skills, as well as address Continuous Auditing issues. Chapter 1 CAATTs History, Chapter 2 Audit Technology, Chapter 3 Continuous Auditing, Chapter 4 CAATTs Benefits and Opportunities, Chapter 5 CAATTs for Broader Scoped Audits, Chapter 6 Data Access and Testing, Chapter 7 Developing CAATT Capabilities, Chapter 8 Challenges for Audit,

The Definitive Guide to File System Analysis: Key Concepts and Hands-on Techniques Most digital evidence is stored within the computer's file system, but understanding how file systems work is one of the most technically challenging concepts for a digital investigator because there exists little documentation. Now, security expert Brian Carrier has written the definitive reference for everyone who wants to understand and be able to testify about how file system analysis is performed. Carrier begins with an overview of investigation and computer foundations and then gives an authoritative, comprehensive, and illustrated overview of contemporary volume and file systems: Crucial information for discover-

ing hidden evidence, recovering deleted data, and validating your tools. Along the way, he describes data structures, analyzes example disk images, provides advanced investigation scenarios, and uses today's most valuable open source file system analysis tools—including tools he personally developed. Coverage includes Preserving the digital crime scene and duplicating hard disks for "dead analysis" Identifying hidden data on a disk's Host Protected Area (HPA) Reading source data: Direct versus BIOS access, dead versus live acquisition, error handling, and more Analyzing DOS, Apple, and GPT partitions; BSD disk labels; and Sun Volume Table of Contents using key concepts, data structures, and specific techniques Analyzing the contents of multiple disk volumes, such as RAID and disk spanning Analyzing FAT, NTFS, Ext2, Ext3, UFS1, and UFS2 file systems using key concepts, data structures, and specific techniques Finding evidence: File metadata, recovery of deleted files, data hiding locations, and more Using The Sleuth Kit (TSK), Autopsy Forensic Browser, and related open source tools When it comes to file system analysis, no other book offers this much detail or expertise. Whether you're a digital forensics specialist, incident response team member, law enforcement officer, corporate security specialist, or auditor, this book will become an indispensable resource for forensic investigations, no matter what analysis tools you use.

There are many webinars and training courses on Data Analytics for Internal Auditors, but no handbook written from the practitioner's viewpoint covering not only the need and the theory, but a practical hands-on approach to conducting Data Analytics. The spread of IT systems makes it necessary that auditors as well as management have the ability to examine high volumes of data and transactions to determine patterns and trends. The increasing need to continuously monitor and audit IT systems has created an imperative for the effective use of appropriate data mining tools. This book takes an auditor from a zero base to an ability to professionally analyze corporate data seeking anomalies.

Annotation A comprehensive and broad introduction to computer and intrusion forensics, covering the areas of law enforcement, national security and corporate fraud, this practical book helps professionals understand case studies from around the world, and treats key emerging areas such as stegoforensics, image identification, authorship categorization, and machine learning.

This book constitutes the refereed proceedings of the 14th International Baltic Conference on Databases and Information Systems, DB & IS 2020, held in Tallinn, Estonia, in June 2020.* The 22 revised papers presented were carefully reviewed and selected from 52 submissions. The papers are centered around topics like architectures and quality of information systems, artificial intelligence in information systems, data and knowledge engineering, enterprise and information systems engineering, security of information systems. *The conference was held virtually due to the COVID-19 pandemic.

Can a mathematical theory first conceived by Dr. Frank Benford over sixty years ago really help you detect fraud? Amazingly, the answer is yes! This workbook will provide you with an understanding of the history behind Ben-

ford's Law and give you the tools needed to apply Benford's Law while undertaking a fraud audit or fraud examination.

Praise for Computer-Aided Fraud Prevention and Detection: A Step-by-Step Guide "A wonderful desktop reference for anyone trying to move from traditional auditing to integrated auditing. The numerous case studies make it easy to understand and provide a how-to for those?seeking to implement automated tools including continuous assurance. Whether you are just starting down the path or well on your way, it is a valuable resource." -Kate M. Head, CPA, CFE, CISA Associate Director, Audit and Compliance University of South Florida "I have been fortunate enough to learn from Dave's work over the last fifteen years, and this publication is no exception. Using his twenty-plus years of experience, Dave walks through every aspect of detecting fraud with a computer from the genesis of the act to the mining of data for its traces and its ultimate detection. A complete text that first explains how one prevents and detects fraud regardless of technology and then shows how by automating such procedures, the examiners' powers become superhuman." -Richard B. Lanza, President, Cash Recovery Partners, LLC "Computer-Aided Fraud Prevention and Detection: A Step-by-Step Guide helps management and auditors answer T. S. Eliot's timeless question, 'Where is the knowledge lost in information?' Data analysis provides a means to mine the knowledge hidden in our information. Dave Coderre has long been a leader in educating auditors and others about Computer Assisted Audit Techniques. The book combines practical approaches with unique data analysis case examples that compel the readers to try the techniques themselves." -Courtenay Thompson Jr. Consultant, Courtenay Thompson & Associates

As the Internet becomes increasingly interconnected with modern society, the transition to online business has developed into a prevalent form of commerce. While there exist various advantages and disadvantages to online business, it plays a major role in contemporary business methods. Improving E-Commerce Web Applications Through Business Intelligence Techniques provides emerging research on the core areas of e-commerce web applications. While highlighting the use of data mining, search engine optimization, and online marketing to advance online business, readers will learn how the role of online commerce is becoming more prevalent in modern business. This book is an important resource for vendors, website developers, online customers, and scholars seeking current research on the development and use of e-commerce.

Text analytics (TA) covers a very wide research area. Its overarching goal is to discover and present knowledge — facts, rules, and relationships — that is otherwise hidden in the textual content. The authors of this book guide us in a quest to attain this knowledge automatically, by applying various machine learning techniques.This book describes recent development in multilingual text analysis. It covers several specific examples of practical TA applications, including their problem statements, theoretical background, and implementation of the proposed solution. The reader can see which preprocessing techniques and text representation mod-

els were used, how the evaluation process was designed and implemented, and how these approaches can be adapted to multilingual domains.

This book is a collection of chapters written by experts on various aspects of big data. The book aims to explain what big data is and how it is stored and used. The book starts from the fundamentals and builds up from there. It is intended to serve as a review of the state-of-the-practice in the field of big data handling. The traditional framework of relational databases can no longer provide appropriate solutions for handling big data and making it available and useful to users scattered around the globe. The study of big data covers a wide range of issues including management of heterogeneous data, big data frameworks, change management, finding patterns in data usage and evolution, data as a service, service-generated data, service management, privacy and security. All of these aspects are touched upon in this book. It also discusses big data applications in different domains. The book will prove useful to students, researchers, and practicing database and networking engi-

neers.

What does the Web look like? How can we find patterns, communities, outliers, in a social network? Which are the most central nodes in a network? These are the questions that motivate this work. Networks and graphs appear in many diverse settings, for example in social networks, computer-communication networks (intrusion detection, traffic management), protein-protein interaction networks in biology, document-text bipartite graphs in text retrieval, person-account graphs in financial fraud detection, and others. In this work, first we list several surprising patterns that real graphs tend to follow. Then we give a detailed list of generators that try to mirror these patterns. Generators are important, because they can help with "what if" scenarios, extrapolations, and anonymization. Then we provide a list of powerful tools for graph analysis, and specifically spectral methods (Singular Value Decomposition (SVD)), tensors, and case studies like the famous "pageRank" algorithm and the "HITS" algorithm for ranking web search results. Finally, we conclude with a survey of tools and obser-

vations from related fields like sociology, which provide complementary viewpoints. Table of Contents: Introduction / Patterns in Static Graphs / Patterns in Evolving Graphs / Patterns in Weighted Graphs / Discussion: The Structure of Specific Graphs / Discussion: Power Laws and Deviations / Summary of Patterns / Graph Generators / Preferential Attachment and Variants / Incorporating Geographical Information / The RMat / Graph Generation by Kronecker Multiplication / Summary and Practitioner's Guide / SVD, Random Walks, and Tensors / Tensors / Community Detection / Influence/Virus Propagation and Immunization / Case Studies / Social Networks / Other Related Work / Conclusions

This book examines current topics and trends in strategic auditing, accounting and finance in digital transformation both from a theoretical and practical perspective. It covers areas such as internal control, corporate governance, enterprise risk management, sustainability and competition. The contributors of this volume emphasize how strategic approaches in this area help companies in achieving targets. The contributions illustrate

how by providing good governance, reliable financial reporting, and accountability, businesses can win a competitive advantage. It further discusses how new technological developments like artificial intelligence (AI), cyber-systems, network technologies, financial mobility and smart applications, will shape the future of accounting and auditing for firms.

Cost Recovery: Turning Your Accounts Payable Department into a Profit Center shows how to identify a company's hidden financial assets. It provides tools to assist organizations generate cash recoveries, stop profit leaks, move away from control issues, and work towards process improvements. The book shows how to incorporate profit recovery technology, and how to pair a company with a recovery expert best suited to the company's needs to achieve bottom line results. The book discusses how to utilize free services offered by cost recovery consultants, using of top money-saving proves improvements, and how to create a plan to maximize recovering technology.

This text has been written so that it is current with all issues inherent in ac-counting and auditing practice, particularly in public accounting firms including coverage of the creation of the Public Companies Accounting Oversight Board, the passage of the Sarbanes-Oxley Act, and all of the major pronouncements issued by the AICPA. The text is also designed to provide flexibility for instructors; the twelve chapters focus on the auditing process while the eight modules provide additional topics that can be taught at the instructors' discretion without interrupting the flow of the text.

Become the forensic analytics expert in your organization using effective and efficient data analysis tests to find anomalies, biases, and potential fraud—the updated new edition Forensic Analytics reviews the methods and techniques that forensic accountants can use to detect intentional and unintentional errors, fraud, and biases. This updated second edition shows accountants and auditors how analyzing their corporate or public sector data can highlight transactions, balances, or subsets of transactions or balances in need of attention. These tests are made up of a set of initial high-level overview tests followed by a series of more focused tests. These focused tests use a variety of quantitative methods including Benford's Law, outlier detection, the detection of duplicates, a comparison to benchmarks, time-series methods, risk-scoring, and sometimes simply statistical logic. The tests in the new edition include the newly developed vector variation score that quantifies the change in an array of data from one period to the next. The goals of the tests are to either produce a small sample of suspicious transactions, a small set of transaction groups, or a risk score related to individual transactions or a group of items. The new edition includes over two hundred figures. Each chapter, where applicable, includes one or more cases showing how the tests under discussion could have detected the fraud or anomalies. The new edition also includes two chapters each describing multi-million-dollar fraud schemes and the insights that can be learned from those examples. These interesting real-world examples help to make the text accessible and understandable for accounting professionals and accounting students without

rigorous backgrounds in mathematics and statistics. Emphasizing practical applications, the new edition shows how to use either Excel or Access to run these analytics tests. The book also has some coverage on using Minitab, IDEA, R, and Tableau to run forensic-focused tests. The use of SAS and Power BI rounds out the software coverage. The software screenshots use the latest versions of the software available at the time of writing. This authoritative book: Describes the use of statistically-based techniques including Benford's Law, descriptive statistics, and the vector variation score to detect errors and anomalies Shows how to run most of the tests in Access and Excel, and other data analysis software packages for a small sample of the tests Applies the tests under review in each chapter to the same purchasing card data from a government entity Includes interesting cases studies throughout that are linked to the tests being reviewed. Includes two comprehensive case studies where data analytics could have detected the frauds before they reached multi-million-dollar levels Includes a continually-updated companion website with the data sets used in the chapters, the queries used in the chapters, extra coverage of some topics or cases, end of chapter questions, and end of chapter cases. Written by a prominent educator and researcher in forensic accounting and auditing, the new edition of Forensic Analytics: Methods and Techniques for Forensic Accounting Investigations is an essential resource for forensic accountants, auditors, comptrollers, fraud investigators, and graduate students.

Learn to identify, detect, investigate and prevent financial fraud today with Albrecht/Albrecht/Albrecht/Zimbelman's FRAUD EXAMINATION, 6E. Develop the skills to detect fraud skills and become a better interviewer, a stronger and more skeptical document examiner, a more effective technology user and more informed decision maker. You gain a strong understanding of the types of fraud and nature of fraud investigation today with current business examples and numerous actual fraud cases, delivered first-hand from the authors' experience. FRAUD EXAMINATION presents today's most important fraud concepts with an emphasis on ebusiness and cyber fraud. Significant discussion familiarizes you with forensic analysis as well as legal options for victims of fraud. New coverage also highlights how experts use technology to accomplish fraud and detect fraud. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The new fifth edition of Information Technology Control and Audit has been significantly revised to include a comprehensive overview of the IT environment, including revolutionizing technologies, legislation, audit process, governance, strategy, and outsourcing, among others. This new edition also outlines common IT audit risks, procedures, and involvement associated with major IT audit areas. It further provides cases featuring practical IT audit scenarios, as well as sample documentation to design and perform actual IT audit work. Filled with up-to-date audit concepts, tools, techniques, and references for further reading, this revised edition promotes the mastery of concepts, as well as the effective implementation and assessment of IT con-

trols by organizations and auditors. For instructors and lecturers there are an instructor's manual, sample syllabi and course schedules, PowerPoint lecture slides, and test questions. For students there are flashcards to test their knowledge of key terms and recommended further readings. Go to http://routledgetextbooks.com/textbooks/9781498752282/ for more information.

Detect fraud faster—no matter how well hidden—with IDEA automation Fraud and Fraud Detection takes an advanced approach to fraud management, providing step-by-step guidance on automating detection and forensics using CaseWare's IDEA software. The book begins by reviewing the major types of fraud, then details the specific computerized tests that can detect them. Readers will learn to use complex data analysis techniques, including automation scripts, allowing easier and more sensitive detection of anomalies that require further review. The companion website provides access to a demo version of IDEA, along with sample scripts that allow readers to immediately test the procedures from the book. Business systems' electronic databases have grown tremendously with the rise of big data, and will continue to increase at significant rates. Fraudulent transactions are easily hidden in these enormous datasets, but Fraud and Fraud Detection helps readers gain the data analytics skills that can bring these anomalies to light. Step-by-step instruction and practical advice provide the specific abilities that will enhance the audit and investigation process. Readers will learn to: Understand the different areas of fraud and their specific detection methods Identify anomalies and risk areas using computerized techniques Develop a step-by-step plan for detecting fraud through data analytics Utilize IDEA software to automate detection and identification procedures The delineation of detection techniques for each type of fraud makes this book a must-have for students and new fraud prevention professionals, and the step-by-step guidance to automation and complex analytics will prove useful for even experienced examiners. With datasets growing exponentially, increasing both the speed and sensitivity of detection helps fraud professionals stay ahead of the game. Fraud and Fraud Detection is a guide to more efficient, more effective fraud identification.