

Audio Video Engineering By Gupta Pdf Pdf

... **Gupta, A., Trivedi, M.C., Yadav, V.K.:** Analysis of different text steganography techniques: a survey. In ... **Engineering**, pp. 88–93 (2003) Judge, J.C.: Steganography: past, present, future, SANS white paper. <http://www.sans.org/rr...>

Microphone Techniques in Stereo and Surround Recording 2022-11-22 Adam Rosiński Sound engineering is one of the fastest-growing branches of music production. The need for a broad-based discussion on the issues constituting the art of sound engineering persists and loses none of its relevance, revealing that sound engineering should not be investigated only in the mathematical and physical context (musical acoustics) or the engineering aspect (signal processing and modification). Publications targeted primarily at musicians are few and far between, which is why the mutual understanding for different priorities which effectively concern the same issues faced by the engineer, the acoustician and the musician, seems to be a complex problem and the main concept explored in this publication. This book is intended for musicians or sound directors, but also acousticians and sound engineers wishing to learn how the musicians think. The monograph is also addressed to musicians who intend to record their material in the studio in the near future, but do not possess knowledge on studio construction, studio workflow or the art of recording. It seems important to familiarize the musicians with the reality that awaits them on the other side of the glass, thus fostering their responsibility for the work jointly produced by them – entering the studio – and the sound director.

Handbook of Digital Forensics of Multimedia Data and Devices, Enhanced E-Book 2016-05-20 Anthony T. S. Ho Digital forensics and multimedia forensics are rapidly growing disciplines whereby electronic information is extracted and interpreted for use in a court of law. These two fields are finding increasing importance in law enforcement and the investigation of cybercrime as the ubiquity of personal computing and the internet becomes ever-more apparent. Digital forensics involves investigating computer systems and digital artefacts in general, while multimedia forensics is a sub-topic of digital forensics focusing on evidence extracted from both normal computer systems and special multimedia devices, such as digital cameras. This book focuses on the interface between digital forensics and multimedia forensics, bringing two closely related fields of forensic expertise together to identify and understand the current state-of-the-art in digital forensic investigation. Both fields are expertly attended to by contributions from researchers and forensic practitioners specializing in diverse topics such as forensic authentication, forensic triage, forensic photogrammetry, biometric forensics, multimedia device identification, and image forgery detection among many others. Key features: Brings digital and multimedia forensics together with contributions from academia, law enforcement, and the digital forensics industry for extensive coverage of all the major aspects of digital forensics of multimedia data and devices Provides comprehensive and authoritative coverage of digital forensics of multimedia data and devices Offers not only explanations of techniques but also real-world and simulated case studies to illustrate how digital and multimedia forensics techniques work Includes a companion website hosting continually updated supplementary materials ranging from extended and updated coverage of standards to best practice guides, test datasets and more case studies

Audio & Video Systems, 2e 2010 R. G. Gupta

Computer Networks, Big Data and IoT 2022-05-21 A. Pasumpon Pandian This book presents best selected research papers presented at the International Conference on Computer Networks, Big Data and IoT (ICCB 2021), organized by Vaigai College Engineering, Madurai, Tamil Nadu, India, during December 9–10, 2021. The book covers original papers on computer networks, network protocols and wireless networks, data communication technologies and network security. The book is a valuable resource and reference for researchers, instructors, students, scientists, engineers, managers and industry practitioners in those important areas.

Practical Data Science with Jupyter 2021-03-01 Prateek Gupta Solve business problems with data-driven techniques and easy-to-follow Python

examples È KEY FEATURESÊÊ _ Essential coverage on statistics and data science techniques. _ Exposure to Jupyter, PyCharm, and use of GitHub. _ Real use-cases, best practices, and smart techniques on the use of data science for data applications. DESCRIPTIONÊÊ This book begins with an introduction to Data Science followed by the Python concepts. The readers will understand how to interact with various database and Statistics concepts with their Python implementations. You will learn how to import various types of data in Python, which is the first step of the data analysis process. Once you become comfortable with data importing, you willÊÊ clean the dataset and after that will gain an understanding about various visualization charts. This book focuses on how to apply feature engineering techniques to make your data more valuable to an algorithm. The readers will get to know various Machine Learning Algorithms, concepts, Time Series data, and a few real-world case studies. This book also presents some best practices that will help you to be industry-ready. This book focuses on how to practice data science techniques while learning their concepts using Python and Jupyter. This book is a complete answer to the most common question that how can you get started with Data Science instead of explaining Mathematics and Statistics behind the Machine Learning Algorithms. WHAT YOU WILL LEARN _ Rapid understanding of Python concepts for data science applications. _ Understand and practice how to run data analysis with data science techniques and algorithms. _ Learn feature engineering, dealing with different datasets, and most trending machine learning algorithms. _ Become self-sufficient to perform data science tasks with the best tools and techniques. È WHO THIS BOOK IS FORÊÊ This book is for a beginner or an experienced professional who is thinking about a career or a career switch to Data Science. Each chapter contains easy-to-follow Python examples. È TABLE OF CONTENTS 1. Data Science Fundamentals 2. Installing Software and System Setup 3. Lists and Dictionaries 4. Package, Function, and Loop 5. NumPy Foundation 6. Pandas and DataFrame 7. Interacting with Databases 8. Thinking Statistically in Data Science 9. How to Import Data in Python? 10. Cleaning of Imported Data 11. Data Visualization 12. Data Pre-processing 13. Supervised Machine Learning 14. Unsupervised Machine Learning 15. Handling Time-Series Data 16. Time-Series Methods 17. Case Study-1 18. Case Study-2 19. Case Study-3 20. Case Study-4 21. Python Virtual Environment 22. Introduction to An Advanced Algorithm - CatBoost 23. Revision of All ChaptersÕ Learning

Applications of MATLAB in Science and Engineering 2011-09-09 Tadeusz Michalowski The book consists of 24 chapters illustrating a wide range of areas where MATLAB tools are applied. These areas include mathematics, physics, chemistry and chemical engineering, mechanical engineering, biological (molecular biology) and medical sciences, communication and control systems, digital signal, image and video processing, system modeling and simulation. Many interesting problems have been included throughout the book, and its contents will be beneficial for students and professionals in wide areas of interest.

Play It Right 2022-05-10 Kamal Gupta A real-life underdog tale of one man turning the tables on the casinos and Wall Street without selling his soul to the devil All around the world, the words “Wall Street” conjure up a powerful image. For some, it is the center of America’s capitalist system and the engine of its economic growth. For others, it is the home of rapacious bankers and reckless traders whose greed would lead to a global financial crisis. For an Indian-born blackjack player, Wall Street represented something else entirely — a chance for him to play in the largest casino in the world. Kamal Gupta’s improbable journey, from a wide-eyed Indian immigrant to an ultimate insider in the rarefied world of investment banks and hedge funds, is a uniquely American story. Nowhere else would it have been possible for a scrawny computer scientist to enter the world of high finance solely on the basis of his gambling abilities. After spending seven years creating an investment methodology, Gupta went on an incredible run, generating an unprecedented 103 consecutive months of positive returns while managing money at large hedge funds. His success did not go unnoticed, and he found himself under constant pressure to take bigger risks to make even more money. He refused and always played it right, knowing that there was such a thing as “enough” money, something very few, if

any, of his Wall Street peers understood. Much like Maria Konnikova's bestseller, *The Biggest Bluff*, *Play It Right* isn't so much about money as it is about the human condition and beating the odds, whether at a casino, on Wall Street, or in life itself.

NETWORKING 2011 2011-04-28 Jordi Domingo-Pascual The two-volume set LNCS 6640 and 6641 constitutes the refereed proceedings of the 10th International IFIP TC 6 Networking Conference held in Valencia, Spain, in May 2011. The 64 revised full papers presented were carefully reviewed and selected from a total of 294 submissions. The papers feature innovative research in the areas of applications and services, next generation Internet, wireless and sensor networks, and network science. The first volume includes 36 papers and is organized in topical sections on anomaly detection, content management, DTN and sensor networks, energy efficiency, mobility modeling, network science, network topology configuration, next generation Internet, and path diversity.

Multimedia Networking and Coding 2012-12-31 Farrugia, Reuben A. Advances in multimedia communication systems have enhanced the need for improved video coding standards. Due to the inherent nature of video content, large bandwidths and reliable communication links are required to ensure a satisfactory level of quality experience; inspiring industry and research communities to concentrate their efforts in this emerging research area. *Multimedia Networking and Coding* covers widespread knowledge and research as well as innovative applications in multimedia communication systems. This book highlights recent techniques that can evolve into future multimedia communication systems, also showing experimental results from systems and applications.

Transactions on Engineering Technologies 2015-07-07 Haeng Kon Kim This volume contains thirty-nine revised and extended research articles, written by prominent researchers participating in the World Congress on Engineering and Computer Science 2014, held in San Francisco, October 22-24 2014. Topics covered include engineering mathematics, electrical engineering, circuit design, communications systems, computer science, chemical engineering, systems engineering and applications of engineering science in industry. This book describes some significant advances in engineering technologies and also serves as an excellent source of reference for researchers and graduate students.

Strategy, Adoption, and Competitive Advantage of Mobile Services in the Global Economy 2012-07-31 Lee, In As business paradigm shifts from a desktop-centric environment to a data-centric mobile environment, mobile services provide numerous new business opportunities, and in some cases, challenge some of the basic premises of existing business models. *Strategy, Adoption, and Competitive Advantage of Mobile Services in the Global Economy* seeks to foster a scientific understanding of mobile services, provide a timely publication of current research efforts, and forecast future trends in the mobile services industry. This book is an ideal resource for academics, researchers, government policymakers, as well as corporate managers looking to enhance their competitive edge in or understanding of mobile services.

Machine Intelligence and Smart Systems 2021-04-08 Shikha Agrawal This book is a collection of peer-reviewed best selected research papers presented at the First International Conference on Machine Intelligence and Smart Systems 2020 (MISS 2020), organized during September 24-25, 2020, in Gwalior, India. The book presents new advances and research results in the fields of machine intelligence, artificial intelligence and smart systems. It includes main paradigms of machine intelligence algorithms, namely (1) neural networks, (2) evolutionary computation, (3) swarm intelligence, (4) fuzzy systems and (5) immunological computation.

Cyber Crime and Forensic Computing 2021-09-07 Gulshan Shrivastava This book presents a comprehensive study of different tools and techniques available to perform network forensics. Also, various aspects of network forensics are reviewed as well as related technologies and their limitations. This helps security practitioners and researchers in better understanding of the problem, current solution space, and future research scope to detect and investigate various network intrusions against such attacks efficiently. Forensic computing is rapidly gaining importance since the amount of crime involving digital systems is steadily increasing. Furthermore, the area is still underdeveloped and poses many technical and legal challenges. The rapid development of the Internet over the past decade appeared to have facilitated an increase in the

incidents of online attacks. There are many reasons which are motivating the attackers to be fearless in carrying out the attacks. For example, the speed with which an attack can be carried out, the anonymity provided by the medium, nature of medium where digital information is stolen without actually removing it, increased availability of potential victims and the global impact of the attacks are some of the aspects. Forensic analysis is performed at two different levels: Computer Forensics and Network Forensics. Computer forensics deals with the collection and analysis of data from computer systems, networks, communication streams and storage media in a manner admissible in a court of law. Network forensics deals with the capture, recording or analysis of network events in order to discover evidential information about the source of security attacks in a court of law. Network forensics is not another term for network security. It is an extended phase of network security as the data for forensic analysis are collected from security products like firewalls and intrusion detection systems. The results of this data analysis are utilized for investigating the attacks. Network forensics generally refers to the collection and analysis of network data such as network traffic, firewall logs, IDS logs, etc. Technically, it is a member of the already-existing and expanding the field of digital forensics. Analogously, network forensics is defined as "The use of scientifically proved techniques to collect, fuses, identifies, examine, correlate, analyze, and document digital evidence from multiple, actively processing and transmitting digital sources for the purpose of uncovering facts related to the planned intent, or measured success of unauthorized activities meant to disrupt, corrupt, and or compromise system components as well as providing information to assist in response to or recovery from these activities." Network forensics plays a significant role in the security of today's organizations. On the one hand, it helps to learn the details of external attacks ensuring similar future attacks are thwarted. Additionally, network forensics is essential for investigating insiders' abuses that constitute the second costliest type of attack within organizations. Finally, law enforcement requires network forensics for crimes in which a computer or digital system is either being the target of a crime or being used as a tool in carrying a crime. Network security protects the system against attack while network forensics focuses on recording evidence of the attack. Network security products are generalized and look for possible harmful behaviors. This monitoring is a continuous process and is performed all through the day. However, network forensics involves post mortem investigation of the attack and is initiated after crime notification. There are many tools which assist in capturing data transferred over the networks so that an attack or the malicious intent of the intrusions may be investigated. Similarly, various network forensic frameworks are proposed in the literature.

Security, Privacy, and Trust in Modern Data Management 2007-06-12 Milan Petkovic The vision of ubiquitous computing and ambient intelligence describes a world of technology which is present anywhere, anytime in the form of smart, sensible devices that communicate with each other and provide personalized services. However, open interconnected systems are much more vulnerable to attacks and unauthorized data access. In the context of this threat, this book provides a comprehensive guide to security and privacy and trust in data management.

Green Networking and Communications 2013-10-29 Shafiqullah Khan Although the information and communication technology (ICT) industry accounted for only 2 percent of global greenhouse gas emissions in 2007, the explosive increase in data traffic brought about by a rapidly growing user base of more than a billion wireless subscribers is expected to nearly double that number by 2020. It is clear that now is the time to rethink how we design and build our networks. *Green Networking and Communications: ICT for Sustainability* brings together leading academic and industrial researchers from around the world to discuss emerging developments in energy-efficient networking and communications. It covers the spectrum of research subjects, including methodologies and architectures for energy efficiency, energy-efficient protocols and networks, energy management, smart grid communications, and communication technologies for green solutions. Examines foraging-inspired radio-communication energy management for green multi-radio networks Considers a cross-layer approach to the design of energy-efficient wireless access networks Investigates the interplay between cooperative device-to-device communications and green LTE cellular networks Considers smart grid energy procurement for green LTE cellular networks Details smart grid networking protocols and standards Considering the spectrum of energy-efficient network components and

approaches for reducing power consumption, the book is organized into three sections: Energy Efficiency and Management in Wireless Networks, Cellular Networks, and Smart Grids. It addresses many open research challenges regarding energy efficiency for IT and for wireless sensor networks, including mobile and wireless access networks, broadband access networks, home networks, vehicular networks, intelligent future wireless networks, and smart grids. It also examines emerging standards for energy-efficient protocols. Since ICT technologies touch on nearly all sectors of the economy, the concepts presented in this text offer you the opportunity to make a substantial contribution to the reduction of global greenhouse gas emissions.

Sensors and Image Processing 2017-10-03 Shabana Urooj This volume comprises the select proceedings of the annual convention of the Computer Society of India. Divided into 10 topical volumes, the proceedings present papers on state-of-the-art research, surveys, and succinct reviews. The volumes cover diverse topics ranging from communications networks to big data analytics, and from system architecture to cyber security. This volume focuses on Sensors and Image Processing. The contents of this book will be useful to researchers and students alike.

Journal of the Audio Engineering Society 2001 Audio Engineering Society "Directory of members" published as pt. 2 of Apr. 1954- issue.

Teaching Engineering, Second Edition 2015-01-15 Phillip C. Wankat The majority of professors have never had a formal course in education, and the most common method for learning how to teach is on-the-job training. This represents a challenge for disciplines with ever more complex subject matter, and a lost opportunity when new active learning approaches to education are yielding dramatic improvements in student learning and retention. This book aims to cover all aspects of teaching engineering and other technical subjects. It presents both practical matters and educational theories in a format useful for both new and experienced teachers. It is organized to start with specific, practical teaching applications and then leads to psychological and educational theories. The "practical orientation" section explains how to develop objectives and then use them to enhance student learning, and the "theoretical orientation" section discusses the theoretical basis for learning/teaching and its impact on students. Written mainly for PhD students and professors in all areas of engineering, the book may be used as a text for graduate-level classes and professional workshops or by professionals who wish to read it on their own. Although the focus is engineering education, most of this book will be useful to teachers in other disciplines. Teaching is a complex human activity, so it is impossible to develop a formula that guarantees it will be excellent. However, the methods in this book will help all professors become good teachers while spending less time preparing for the classroom. This is a new edition of the well-received volume published by McGraw-Hill in 1993. It includes an entirely revised section on the Accreditation Board for Engineering and Technology (ABET) and new sections on the characteristics of great teachers, different active learning methods, the application of technology in the classroom (from clickers to intelligent tutorial systems), and how people learn.

Mind Without Fear 2019-03-24 Rajat Gupta "A propulsive narrative filled with boldfaced names from business and politics. At times, it is a dishy score settler."—The New York Times For nine years, Rajat Gupta led McKinsey & Co.—the first foreign-born person to head the world's most influential management consultancy. He was also the driving force behind major initiatives such as the Indian School of Business and the Public Health Foundation of India. A globally respected figure, he sat on the boards of distinguished philanthropic institutions such as the Gates Foundation and the Global Fund to Fight AIDS, Tuberculosis and Malaria, and corporations, including Goldman Sachs, American Airlines, and Procter & Gamble. In 2011, to the shock of the international business community, Gupta was arrested and charged with insider trading. Against the backdrop of public rage and recrimination that followed the financial crisis, he was found guilty and sentenced to two years in jail. Throughout his trial and imprisonment, Gupta has fought the charges and maintains his innocence to this day. In these pages, Gupta recalls his unlikely rise from orphan to immigrant to international icon as well as his dramatic fall from grace. He writes movingly about his childhood losses, reflects on the challenges he faced as a student and young executive in the United States, and offers a rare inside glimpse into the elite and secretive culture

of McKinsey, "the Firm." And for the first time, he tells his side of the story in the scandal that destroyed his career and reputation. Candid, compelling, and poignant, Gupta's memoir is much more than a courtroom drama; it is an extraordinary tale of human resilience and personal growth.

Managing Strategic Design 2014-11-20 Ray Holland This core textbook emphasizes the power of design management to drive corporate strategic goals, showing how design strategies can be thoughtfully formulated and managed to improve the performance of organizations. Taking an engaging and accessible approach, this book will help design students and graduates to apply new concepts of design management in their works and to use design strategically to achieve organizational visions and targets. Throughout the book's tripartite structure – comprising an introduction to the topic, followed by sections on how strategic design can be used to support key businesses functions and how it can be used to push organisations forward – a strong link is made between design and marketing and the delivery of design-led branding. This textbook is essential for upper level undergraduate and postgraduate students studying design management on art and design degrees. It also caters for practitioners and specialist elective modules offered on business and management, and marketing and entrepreneurship courses in business schools.

MITRE Systems Engineering Guide 2012-06-05

Routing Protocols and Architectural Solutions for Optimal Wireless Networks and Security 2017-04-17 Singh, Dharm Networking capabilities have been significantly enhanced in recent years. With emerging advancements in technology, wireless communication has increased exponentially. Routing Protocols and Architectural Solutions for Optimal Wireless Networks and Security is a comprehensive resource on the latest technological advancements in designing secure wireless networks and secure transmission of data, voice and video over wireless networks and other innovations. Featuring comprehensive coverage across a range of relevant topics such as network planning, radio resource allocation, and broadband wireless networks, this publication is an ideal reference source for network designers, industries, researchers, educators, and governments who are involved in designing and implementing security and wireless networks and applications.

Radioengineering 2006

Innovative Smart Healthcare and Bio-Medical Systems 2020-12-27 Abdel-Badeeh Salem Advances in smart healthcare systems (SHS) and artificial intelligence (AI) domains highlight the need for ICT systems that aim not only to improve human quality of life but improve safety too. SHS bring together concepts and methodologies from various fields, such as communications and network systems, computer science, life sciences and healthcare. The well-known smart healthcare paradigms are; real-time monitoring devices, computer-aided surgery devices, telemedicine devices, population-based care devices, personalized medicine from a machine learning perspective, ubiquitous intelligent computing, expert decision support systems, Health 2.0 and Internet of Things (IoT). This book presents models for the deployment of intelligent computing, information, and networking technologies to aid in preventing disease, improving the quality of care and lowering overall cost. It also discusses the potential role of the AI paradigms, computational intelligence and machine learning techniques which are used in developing the SHS. It will provide examples of potential usage of such technology in smart healthcare and and bio-medical systems. It will be an important read for researchers and professionals working in smart healthcare systems, as well as those working in the individual areas of networks, artificial intelligence and healthcare who want to see how an interdisciplinary approach can enhance the current technology.

Spatial Audio 2018-03-23 Woon Seng Gan This book is a printed edition of the Special Issue "Spatial Audio" that was published in Applied Sciences

Collaborative Computing: Networking, Applications and Worksharing 2009-07-25 Elisa Bertino CollaborateCom is an annual international forum for dissemination of original ideas and research results in collaborative computing networks, systems, and applications. A major goal and feature of CollaborateCom is to bring researchers from networking, systems, CSCW, collaborative learning, and collaborative education areas - gether.

CollaborateCom 2008 held in Orlando, Florida, was the fourth conference of the series and it reflects the accelerated growth of collaborative computing, both as research and application areas. Concretely, recent advances in many computing fields have contributed to the growing interconnection of our world, including multi-core architectures, 3G/4G wireless networks, Web 2.0 technologies, computing clouds, and software as a service, just to mention a few. The potential for collaboration among various components has exceeded the current capabilities of traditional approaches to system integration and interoperability. As the world heads towards unlimited connectivity and global computing, collaboration becomes one of the fundamental challenges for areas as diverse as eCommerce, eGovernment, eScience, and the storage, management, and access of information through all the space and time dimensions. We view collaborative computing as the glue that brings the components together and also the lubricant that makes them work together. The conference and its community of researchers demonstrate the concrete progress we are making towards this vision. The conference would not have been successful without help from so many people.

Threats, Countermeasures, and Advances in Applied Information Security 2012-04-30 Gupta, Manish Organizations are increasingly relying on electronic information to conduct business, which has caused the amount of personal information to grow exponentially. Threats, Countermeasures, and Advances in Applied Information Security addresses the fact that managing information security program while effectively managing risks has never been so critical. This book contains 24 chapters on the most relevant and important issues and advances in applied information security management. The chapters are authored by leading researchers and practitioners in the field of information security from across the globe. The chapters represent emerging threats and countermeasures for effective management of information security at organizations.

Utility Computing 2004-10-27 International Workshop on Distributed Systems: Operations and Management This book constitutes the refereed proceedings of the 15th IFIP/IEEE International Workshop on Distributed Systems, Operations and Management, DSOM 2004, held in Davis, CA, USA in November 2004. The 21 revised full papers and 4 short papers presented were carefully reviewed and selected from 110 submissions. The papers are organized in topical sections on management architecture; service level management; policy management; automated management; analysis and reasoning; trust and security; and implementation, instrumentation, and experience.

Intelligent Systems and Sustainable Computing 2022-05-28 V. Sivakumar Reddy The book is a collection of best selected research papers presented at the International Conference on Intelligent Systems and Sustainable Computing (ICISSC 2021), held in School of Engineering, Malla Reddy University, Hyderabad, India, during 24–25 September 2021. The book covers recent research in intelligent systems, intelligent business systems, soft computing, swarm intelligence, artificial intelligence and neural networks, data mining & data warehousing, cloud computing, distributed computing, big data analytics, Internet of Things (IoT), machine learning, speech processing, sustainable high-performance systems, VLSI and embedded systems, image and video processing, and signal processing and communication.

An Interdisciplinary Approach to Modern Network Security 2022-05-02 Sabyasachi Pramanik An Interdisciplinary Approach to Modern Network Security presents the latest methodologies and trends in detecting and preventing network threats. Investigating the potential of current and emerging security technologies, this publication is an all-inclusive reference source for academicians, researchers, students, professionals, practitioners, network analysts and technology specialists interested in the simulation and application of computer network protection. It presents theoretical frameworks and the latest research findings in network security technologies, while analyzing malicious threats which can compromise network integrity. It discusses the security and optimization of computer networks for use in a variety of disciplines and fields. Touching on such matters as mobile and VPN security, IP spoofing and intrusion detection, this edited collection emboldens the efforts of researchers, academics and network administrators working in both the public and private sectors. This edited compilation includes chapters covering topics such as attacks and countermeasures, mobile wireless networking, intrusion detection systems, next-generation firewalls, web security and much more. Information and communication systems are an

essential component of our society, forcing us to become dependent on these infrastructures. At the same time, these systems are undergoing a convergence and interconnection process that has its benefits, but also raises specific threats to user interests. Citizens and organizations must feel safe when using cyberspace facilities in order to benefit from its advantages. This book is interdisciplinary in the sense that it covers a wide range of topics like network security threats, attacks, tools and procedures to mitigate the effects of malware and common network attacks, network security architecture and deep learning methods of intrusion detection.

Finding What Works in Health Care 2011-07-20 Institute of Medicine Healthcare decision makers in search of reliable information that compares health interventions increasingly turn to systematic reviews for the best summary of the evidence. Systematic reviews identify, select, assess, and synthesize the findings of similar but separate studies, and can help clarify what is known and not known about the potential benefits and harms of drugs, devices, and other healthcare services. Systematic reviews can be helpful for clinicians who want to integrate research findings into their daily practices, for patients to make well-informed choices about their own care, for professional medical societies and other organizations that develop clinical practice guidelines. Too often systematic reviews are of uncertain or poor quality. There are no universally accepted standards for developing systematic reviews leading to variability in how conflicts of interest and biases are handled, how evidence is appraised, and the overall scientific rigor of the process. In Finding What Works in Health Care the Institute of Medicine (IOM) recommends 21 standards for developing high-quality systematic reviews of comparative effectiveness research. The standards address the entire systematic review process from the initial steps of formulating the topic and building the review team to producing a detailed final report that synthesizes what the evidence shows and where knowledge gaps remain. Finding What Works in Health Care also proposes a framework for improving the quality of the science underpinning systematic reviews. This book will serve as a vital resource for both sponsors and producers of systematic reviews of comparative effectiveness research.

Data Intensive Distributed Computing: Challenges and Solutions for Large-scale Information Management 2012-01-31 Kosar, Tefvik "This book focuses on the challenges of distributed systems imposed by the data intensive applications, and on the different state-of-the-art solutions proposed to overcome these challenges"--Provided by publisher.

Principles of Management 2022-03-25 Openstax Principles of Management is designed to meet the scope and sequence requirements of the introductory course on management. This is a traditional approach to management using the leading, planning, organizing, and controlling approach. Management is a broad business discipline, and the Principles of Management course covers many management areas such as human resource management and strategic management, as well as behavioral areas such as motivation. No one individual can be an expert in all areas of management, so an additional benefit of this text is that specialists in a variety of areas have authored individual chapters. Contributing Authors David S. Bright, Wright State University Anastasia H. Cortes, Virginia Tech University Eva Hartmann, University of Richmond K. Praveen Parboteeah, University of Wisconsin-Whitewater Jon L. Pierce, University of Minnesota-Duluth Monique Reece Amit Shah, Frostburg State University Siri Terjesen, American University Joseph Weiss, Bentley University Margaret A. White, Oklahoma State University Donald G. Gardner, University of Colorado-Colorado Springs Jason Lambert, Texas Woman's University Laura M. Leduc, James Madison University Joy Leopold, Webster University Jeffrey Muldoon, Emporia State University James S. O'Rourke, University of Notre Dame

Handbook of Sensor Networking 2015-01-13 John R. Vacca This handbook provides a complete professional reference and practitioner's guide to today's advanced sensor networking technologies. It focuses on both established and recent sensor networking theory, technology, and practice. Specialists at the forefront of the field address immediate and long-term challenges and explore practical solutions to a wide range of sensor networking issues. The book covers the hardware of sensor networks, wireless communication protocols, sensor networks software and architectures, wireless information networks, data manipulation, signal processing, localization, and object tracking through sensor networks.

Extractive Metallurgy of Niobium 2017-11-13 A.K. Suri The growth and development witnessed today in modern science, engineering, and technology owes a heavy debt to the rare, refractory, and reactive metals group, of which niobium is a member. Extractive Metallurgy of Niobium presents a vivid account of the metal through its comprehensive discussions of properties and applications, resources and resource processing, chemical processing and compound preparation, metal extraction, and refining and consolidation. Typical flow sheets adopted in some leading niobium-producing countries for the beneficiation of various niobium sources are presented, and various chemical processes for producing pure forms of niobium intermediates such as chloride, fluoride, and oxide are discussed. The book also explains how to liberate the metal from its intermediates and describes the physico-chemical principles involved. It is an excellent reference for chemical metallurgists, hydrometallurgists, extraction and process metallurgists, and minerals processors. It is also valuable to a wide variety of scientists, engineers, technologists, and students interested in the topic.

Academic Press Library in Signal Processing 2013-08-31 This third volume, edited and authored by world leading experts, gives a review of the principles, methods and techniques of important and emerging research topics and technologies in array and statistical signal processing. With this reference source you will: Quickly grasp a new area of research Understand the underlying principles of a topic and its application Ascertain how a topic relates to other areas and learn of the research issues yet to be resolved Quick tutorial reviews of important and emerging topics of research in array and statistical signal processing Presents core principles and shows their application Reference content on core principles, technologies, algorithms and applications Comprehensive references to journal articles and other literature on which to build further, more specific and detailed knowledge Edited by leading people in the field who, through their reputation, have been able to commission experts to write on a particular topic

Algorithms

Multidisciplinary Approach to Modern Digital Steganography 2021-06-04 Pramanik, Sabyasachi Steganography is the art of secret writing. The purpose of steganography is to hide the presence of a message from the intruder by using state-of-the-art methods, algorithms, architectures, models, and methodologies in the domains of cloud, internet of things (IoT), and the Android platform. Though security controls in cloud computing, IoT, and Android platforms are not much different than security controls in an IT environment, they might still present different types of risks to an organization than the classic IT solutions. Therefore, a detailed discussion is needed in case there is a breach in security. It is important to review the security aspects of cloud, IoT, and Android platforms related to steganography to determine how this new technology is being utilized and improved continuously to protect information digitally. The benefits and challenges, along with the current and potential developments for the future, are important keystones in this critical area of security research. Multidisciplinary Approach to Modern Digital Steganography reviews the security aspects of cloud, IoT, and Android platforms related to steganography and addresses emerging security concerns, new algorithms, and case studies in the field. Furthermore, the book presents a new approach to secure data storage on cloud infrastructure and IoT along with including discussions on optimization models and security controls that could be implemented. Other important topics include data transmission, deep learning techniques, machine learning, and both image and text stenography. This book is essential for forensic engineers, forensic analysts, cybersecurity analysts, cyber forensic examiners, security engineers, cybersecurity network analysts, cyber network defense analysts, and digital forensic examiners along with practitioners, researchers, academicians, and students interested in the latest techniques and state-of-the-art methods in digital steganography.

Handbook of Research on Multimedia Cyber Security 2020-04-03 Gupta, Brij B. Because it makes the distribution and transmission of digital information much easier and more cost effective, multimedia has emerged as a top resource in the modern era. In spite of the opportunities that multimedia creates for businesses and companies, information sharing remains vulnerable to cyber attacks and hacking due to the open channels in which this data is being transmitted. Protecting the authenticity and confidentiality of information is a top priority for all professional fields that currently use multimedia practices for distributing

digital data. The Handbook of Research on Multimedia Cyber Security provides emerging research exploring the theoretical and practical aspects of current security practices and techniques within multimedia information and assessing modern challenges. Featuring coverage on a broad range of topics such as cryptographic protocols, feature extraction, and chaotic systems, this book is ideally designed for scientists, researchers, developers, security analysts, network administrators, scholars, IT professionals, educators, and students seeking current research on developing strategies in multimedia security.

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