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Constructive Side-Channel Analysis and Secure Design - Josep Balasch 2022-03-25

This book constitutes revised selected papers from the 13th International Workshop on Constructive Side-Channel Analysis and Secure Design, COSADE 2022, held in Leuven, Belgium, in April 2022. The 12 full papers presented in this volume were carefully reviewed and selected from 25 submissions. The papers cover the following subjects: implementation attacks, secure implementation, implementation attack-resilient architectures and schemes, secure design and evaluation, practical attacks, test platforms, and open benchmarks.

Encryption -

The Chi-squared Distribution - Henry Oliver Lancaster 1969

[Focus on Heart Attack in Pennsylvania](#) - 1996

Development of a Pneumatic High-angle-of-attack Flush Airdata Sensing (HI-FADS) System - 1991

[Proceedings of the 3rd International Conference on Frontiers of Intelligent Computing: Theory and Applications \(FICTA\) 2014](#) - Suresh Chandra Satapathy 2014-10-31

This volume contains 87 papers presented at FICTA 2014: Third International Conference on Frontiers in Intelligent Computing: Theory and Applications. The conference was held during 14-15, November, 2014 at Bhubaneswar, Odisha, India. This volume contains papers mainly focused on Network and Information Security,

Grid Computing and Clod Computing, Cyber Security and Digital Forensics, Computer Vision, Signal, Image & Video Processing, Software Engineering in Multidisciplinary Domains and Ad-hoc and Wireless Sensor Networks.

Wiley Handbook of Science and Technology for Homeland Security, 4 Volume Set - John G. Voeller 2010-04-12

The Wiley Handbook of Science and Technology for Homeland Security is an essential and timely collection of resources designed to support the effective communication of homeland security research across all disciplines and institutional boundaries. Truly a unique work this 4 volume set focuses on the science behind safety, security, and recovery from both man-made and natural disasters has a broad scope and international focus. The Handbook: Educates researchers in the critical needs of the homeland security and intelligence communities and the potential contributions of their own disciplines Emphasizes the role of fundamental science in creating novel technological solutions Details the international dimensions of homeland security and counterterrorism research Provides guidance on technology diffusion from the laboratory to the field Supports cross-disciplinary dialogue in this field between operational, R&D and consumer communities **GNSS Interference Threats and Countermeasures** - Fabio Dovis 2015-02-01 Reliable positioning and navigation is becoming imperative in more and more applications for public services, consumer products, and safety-critical purposes. Research for finding pervasive and robust positioning methodologies is critical

for a growing amount of societal areas while making sure that navigation is trustworthy and the risks and threats of especially satellite navigation are accounted for. This book provides a comprehensive survey of the effect of radio-frequency interference (RFI) on the Global Navigation Satellite Systems (GNSS) as well as of the spoofing threats. Through case studies and practical implementation/applications, this resource presents engineers and scientists with a better understanding of interference and spoofing threats, ultimately helping them to design and implement robust systems.

Handbook on Securing Cyber-Physical Critical Infrastructure - Sajal K Das

2012-01-25

The worldwide reach of the Internet allows malicious cyber criminals to coordinate and launch attacks on both cyber and cyber-physical infrastructure from anywhere in the world. This purpose of this handbook is to introduce the theoretical foundations and practical solution techniques for securing critical cyber and physical infrastructures as well as their underlying computing and communication architectures and systems. Examples of such infrastructures include utility networks (e.g., electrical power grids), ground transportation systems (automotives, roads, bridges and tunnels), airports and air traffic control systems, wired and wireless communication and sensor networks, systems for storing and distributing water and food supplies, medical and healthcare delivery systems, as well as financial, banking and commercial transaction assets. The handbook focus mostly on the scientific foundations and engineering techniques - while also addressing the proper integration of policies and access control mechanisms, for example, how human-developed policies can be properly enforced by an automated system. Addresses the technical challenges facing design of secure infrastructures by providing examples of problems and solutions from a wide variety of internal and external attack scenarios Includes contributions from leading researchers and practitioners in relevant application areas such as smart power grid, intelligent transportation systems, healthcare industry and so on Loaded with examples of real world problems and pathways to solutions utilizing specific tools and

techniques described in detail throughout

Reinforced Concrete Structural Reliability - Mohamed Abdallah El-Reedy, Ph.D 2012-12-15

Structural engineers must focus on a structure's continued safety throughout its service life. Reinforced Concrete Structural Reliability covers the methods that enable engineers to keep structures reliable during all project phases, and presents a practical exploration of up-to-date techniques for predicting the lifetime of a structure. The book also helps readers understand where the safety factors used come from and addresses the problems that arise from deviation from these factors. It also examines the question of what code is best to follow for a specific project: the American code, the British Standard, the Eurocode, or other local codes. The author devotes an entire chapter to practical statistics methods and probability theory used in structural and civil engineering, both important for calculating the probability of structural failure (reliability analysis). The text addresses the effects of time, environmental conditions, and loads to assess consequences on older structures as well as to calculate the probability of failure. It also presents the effects of steel bar corrosion and column corrosion, and precautions to consider along with guides for design. This book offers guidelines and tools to evaluate existing as well as new structures, providing all available methods and tests for assessing structures, including visual inspection and nondestructive testing for concrete strength. It also presents techniques for predicting the remaining service life of a structure, which can be used to determine whether to perform repairs or take other action. This practical guide helps readers to differentiate between and understand the philosophy of the various codes and standards, enabling them to work anywhere in the world. It will aid engineers at all levels working on projects from the design to the maintenance phase, increasing their grasp of structure behavior, codes and factors, and predicting service life.

Computer and Information Security Handbook - John R. Vacca 2012-11-05

The second edition of this comprehensive handbook of computer and information security provides the most complete view of computer security and privacy available. It offers in-depth

coverage of security theory, technology, and practice as they relate to established technologies as well as recent advances. It explores practical solutions to many security issues. Individual chapters are authored by leading experts in the field and address the immediate and long-term challenges in the authors' respective areas of expertise. The book is organized into 10 parts comprised of 70 contributed chapters by leading experts in the areas of networking and systems security, information management, cyber warfare and security, encryption technology, privacy, data storage, physical security, and a host of advanced security topics. New to this edition are chapters on intrusion detection, securing the cloud, securing web apps, ethical hacking, cyber forensics, physical security, disaster recovery, cyber attack deterrence, and more. Chapters by leaders in the field on theory and practice of computer and information security technology, allowing the reader to develop a new level of technical expertise

Comprehensive and up-to-date coverage of security issues allows the reader to remain current and fully informed from multiple viewpoints

Presents methods of analysis and problem-solving techniques, enhancing the reader's grasp of the material and ability to implement practical solutions

Position, Navigation, and Timing Technologies in the 21st Century - Y. Jade Morton 2021-01-13

Covers the latest developments in PNT technologies, including integrated satellite navigation, sensor systems, and civil applications

Featuring sixty-four chapters that are divided into six parts, this two-volume work provides comprehensive coverage of the state-of-the-art in satellite-based position, navigation, and timing (PNT) technologies and civilian applications. It also examines alternative navigation technologies based on other signals-of-opportunity and sensors and offers a comprehensive treatment on integrated PNT systems for consumer and commercial applications. Volume 1 of *Position, Navigation, and Timing Technologies in the 21st Century: Integrated Satellite Navigation, Sensor Systems, and Civil Applications* contains three parts and focuses on the satellite navigation systems, technologies, and engineering and scientific applications. It starts with a historical

perspective of GPS development and other related PNT development. Current global and regional navigation satellite systems (GNSS and RNSS), their inter-operability, signal quality monitoring, satellite orbit and time synchronization, and ground- and satellite-based augmentation systems are examined. Recent progresses in satellite navigation receiver technologies and challenges for operations in multipath-rich urban environment, in handling spoofing and interference, and in ensuring PNT integrity are addressed. A section on satellite navigation for engineering and scientific applications finishes off the volume. Volume 2 of *Position, Navigation, and Timing Technologies in the 21st Century: Integrated Satellite Navigation, Sensor Systems, and Civil Applications* consists of three parts and addresses PNT using alternative signals and sensors and integrated PNT technologies for consumer and commercial applications. It looks at PNT using various radio signals-of-opportunity, atomic clock, optical, laser, magnetic field, celestial, MEMS and inertial sensors, as well as the concept of navigation from Low-Earth Orbiting (LEO) satellites. GNSS-INS integration, neuroscience of navigation, and animal navigation are also covered. The volume finishes off with a collection of work on contemporary PNT applications such as survey and mobile mapping, precision agriculture, wearable systems, automated driving, train control, commercial unmanned aircraft systems, aviation, and navigation in the unique Arctic environment. In addition, this text:

Serves as a complete reference and handbook for professionals and students interested in the broad range of PNT subjects

Includes chapters that focus on the latest developments in GNSS and other navigation sensors, techniques, and applications

Illustrates interconnecting relationships between various types of technologies in order to assure more protected, tough, and accurate PNT

Position, Navigation, and Timing Technologies in the 21st Century: Integrated Satellite Navigation, Sensor Systems, and Civil Applications will appeal to all industry professionals, researchers, and academics involved with the science, engineering, and applications of position, navigation, and timing technologies. pnt21book.com

Security, Privacy and User Interaction -

Markus Jakobsson 2020-11-28

This book makes the case that traditional security design does not take the end-user into consideration, and therefore, fails. This book goes on to explain, using a series of examples, how to rethink security solutions to take users into consideration. By understanding the limitations and habits of users - including malicious users, aiming to corrupt the system - this book illustrates how better security technologies are made possible. Traditional security books focus on one of the following areas: cryptography, security protocols, or existing standards. They rarely consider the end user as part of the security equation, and when they do, it is in passing. This book considers the end user as the most important design consideration, and then shows how to build security and privacy technologies that are both secure and which offer privacy. This reduces the risk for social engineering and, in general, abuse. Advanced-level students interested in software engineering, security and HCI (Human Computer Interaction) will find this book useful as a study guide. Engineers and security practitioners concerned with abuse and fraud will also benefit from the methodologies and techniques in this book.

International Handbook of War, Torture, and Terrorism - Kathleen Malley-Morrison

2012-12-15

Armed conflict, on domestic or foreign soil, impacts people's daily lives and shapes policy around the world. Millions live with the threat of terrorism, whether from random sources or known enemies. And the acceptability of torture is debated by politicians and public alike. The International Handbook of War, Torture, and Terrorism synthesizes historical backgrounds, current trends, and findings from the Personal and Institutional Rights to Aggression and Peace Survey (PAIRTAPS), administered in forty countries over nine global regions. Contributors examine the social, cognitive, and emotional roots of people's thinking on war and national security issues, particularly concerning the role of governments in declaring war, invading other countries, or torturing prisoners. By focusing on the cultural traditions and colonial histories of broad regions rather than of individual nations,

the book demonstrates how context shapes ordinary citizens' views on what is justifiable during times of war, as well as more nebulous concepts of patriotism and security. The Handbook: Introduces the PAIRTAPS and explains the methodology for analyzing responses. Defines war-related concepts from the unique perspectives of Western Europe, U.K./U.S., Middle East, Gulf States, Russia/Balkans, Africa, Latin America, South/Southeast Asia, and East Asia. Provides an integrative summary of definitions and points of view. Situates results in terms of social engagement/disengagement theory. Considers implications for peace and reconciliation. As a reflection of the changing global landscape, the International Handbook of War, Torture, and Terrorism deserves to be read by a wide range of researchers in peace psychology, political science, sociology, and anthropology.

Information Hiding - Fabien A. P. Petitcolas

2003-01-21

This book constitutes the thoroughly refereed post-proceedings of the 5th International Workshop on Information Hiding, IH 2002, held in Noordwijkerhout, The Netherlands, in October 2002. The 27 revised full papers presented were carefully selected during two rounds of reviewing and revision from 78 submissions. The papers are organized in topical sections on information hiding and networking, anonymity, fundamentals of watermarking, watermarking algorithms, attacks on watermarking algorithms, steganography algorithms, steganalysis, and hiding information in unusual content.

Multimedia Forensics and Security - Li, Chang-Tsun

2008-07-31

As information technology is rapidly progressing, an enormous amount of media can be easily exchanged through Internet and other communication networks. Increasing amounts of digital image, video, and music have created numerous information security issues and is now taken as one of the top research and development agendas for researchers, organizations, and governments worldwide. Multimedia Forensics and Security provides an in-depth treatment of advancements in the emerging field of multimedia forensics and security by tackling challenging issues such as

digital watermarking for copyright protection, digital fingerprinting for transaction tracking, and digital camera source identification.

ICT Systems and Sustainability - Milan Tuba
2022-01-04

This book proposes new technologies and discusses future solutions for ICT design infrastructures, as reflected in high-quality papers presented at the 6th International Conference on ICT for Sustainable Development (ICT4SD 2021), held in Goa, India, on 5-6 August 2021. The book covers the topics such as big data and data mining, data fusion, IoT programming toolkits and frameworks, green communication systems and network, use of ICT in smart cities, sensor networks and embedded system, network and information security, wireless and optical networks, security, trust, and privacy, routing and control protocols, cognitive radio and networks, and natural language processing. Bringing together experts from different countries, the book explores a range of central issues from an international perspective.

Disappearing Cryptography - Peter Wayner
2002-05-09

Disappearing Cryptography, Second Edition describes how to take words, sounds, or images and hide them in digital data so they look like other words, sounds, or images. When used properly, this powerful technique makes it almost impossible to trace the author and the recipient of a message. Conversations can be submerged in the flow of information through the Internet so that no one can know if a conversation exists at all. This full revision of the best-selling first edition describes a number of different techniques to hide information. These include encryption, making data incomprehensible; steganography, embedding information into video, audio, or graphics files; watermarking, hiding data in the noise of image or sound files; mimicry, "dressing up" data and making it appear to be other data, and more. The second edition also includes an expanded discussion on hiding information with spread-spectrum algorithms, shuffling tricks, and synthetic worlds. Each chapter is divided into sections, first providing an introduction and high-level summary for those who want to understand the concepts without wading

through technical explanations, and then presenting greater detail for those who want to write their own programs. To encourage exploration, the author's Web site www.wayner.org/books/discrypt2/ contains implementations for hiding information in lists, sentences, and images. Each chapter is divided into sections, providing first an introduction and high-level summary for those who want to understand the concepts without wading through technical details, and then an introductory set of details, for those who want to write their own programs. Fully revised and expanded. Covers key concepts for non-technical readers. Goes into technical details for those wanting to create their own programs and implement algorithms.

Digital Watermarking and Steganography - Ingemar Cox 2007-11-23

Digital audio, video, images, and documents are flying through cyberspace to their respective owners. Unfortunately, along the way, individuals may choose to intervene and take this content for themselves. Digital watermarking and steganography technology greatly reduces the instances of this by limiting or eliminating the ability of third parties to decipher the content that he has taken. The many techniques of digital watermarking (embedding a code) and steganography (hiding information) continue to evolve as applications that necessitate them do the same. The authors of this second edition provide an update on the framework for applying these techniques that they provided researchers and professionals in the first well-received edition. Steganography and steganalysis (the art of detecting hidden information) have been added to a robust treatment of digital watermarking, as many in each field research and deal with the other. New material includes watermarking with side information, QIM, and dirty-paper codes. The revision and inclusion of new material by these influential authors has created a must-own book for anyone in this profession. This new edition now contains essential information on steganalysis and steganography. New concepts and new applications including QIM introduced. Digital watermark embedding is given a complete update with new processes and applications

Modeling and Simulation of Computer Networks and Systems - Mohammad S. Obaidat

2015-04-21

Modeling and Simulation of Computer Networks and Systems: Methodologies and Applications introduces you to a broad array of modeling and simulation issues related to computer networks and systems. It focuses on the theories, tools, applications and uses of modeling and simulation in order to effectively optimize networks. It describes methodologies for modeling and simulation of new generations of wireless and mobiles networks and cloud and grid computing systems. Drawing upon years of practical experience and using numerous examples and illustrative applications recognized experts in both academia and industry, discuss: Important and emerging topics in computer networks and systems including but not limited to; modeling, simulation, analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Methodologies, strategies and tools, and strategies needed to build computer networks and systems modeling and simulation from the bottom up Different network performance metrics including, mobility, congestion, quality of service, security and more... Modeling and Simulation of Computer Networks and Systems is a must have resource for network architects, engineers and researchers who want to gain insight into optimizing network performance through the use of modeling and simulation. Discusses important and emerging topics in computer networks and Systems including but not limited to; modeling, simulation, analysis and security of wireless and mobiles networks especially as they relate to next generation wireless networks Provides the necessary methodologies, strategies and tools needed to build computer networks and systems modeling and simulation from the bottom up Includes comprehensive review and evaluation of simulation tools and methodologies and different network performance metrics including mobility, congestion, quality of service, security and more *Advances in Computing and Communications, Part III* - Ajith Abraham 2011-07-08 This volume is the third part of a four-volume set (CCIS 190, CCIS 191, CCIS 192, CCIS 193),

which constitutes the refereed proceedings of the First International Conference on Computing and Communications, ACC 2011, held in Kochi, India, in July 2011. The 70 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions. The papers are organized in topical sections on security, trust and privacy; sensor networks; signal and image processing; soft computing techniques; system software; vehicular communications networks.

E-Business and Telecommunications - Mohammad S. Obaidat 2019-11-12

This book constitutes the refereed proceedings of the 15th International Joint Conference on E-Business and Telecommunications, ICETE 2018, held in Porto, Portugal, in July 2018. ICETE is a joint international conference integrating four major areas of knowledge that are divided into six corresponding conferences: International Conference on Data Communication Networking, DCNET; International Conference on E-Business, ICE-B; International Conference on Optical Communication Systems, OPTICS; International Conference on Security and Cryptography, SECRIPT; International Conference on Signal Processing and Multimedia, SIGMAP; International Conference on Wireless Information Systems, WINSYS. The 11 full papers presented in the volume were carefully reviewed and selected from the 201 submissions. The papers cover the following key areas of information and communication technologies: data communication networking, e-business, optical communication systems, security and cryptography, signal processing and multimedia applications, and wireless networks and mobile systems.

Digital Watermarking - Yun Qing Shi 2006-10-26

This book constitutes the refereed proceedings of the 5th International Workshop on Digital Watermarking Secure Data Management, IWDW 2006, held in Jeju Island, Korea in November 2006. The 34 revised full papers presented together with 3 invited lectures cover both theoretical and practical issues in digital watermarking.

Cryptography -

Contemporary Cryptography, Second Edition -

Rolf Oppliger 2011

Whether you're new to the field or looking to broaden your knowledge of contemporary cryptography, this newly revised edition of an Artech House classic puts all aspects of this important topic into perspective. Delivering an accurate introduction to the current state-of-the-art in modern cryptography, the book offers you an in-depth understanding of essential tools and applications to help you with your daily work. The second edition has been reorganized and expanded, providing mathematical fundamentals and important cryptography principles in the appropriate appendixes, rather than summarized at the beginning of the book. Now you find all the details you need to fully master the material in the relevant sections. This allows you to quickly delve into the practical information you need for your projects. Covering unkeyed, secret key, and public key cryptosystems, this authoritative reference gives you solid working knowledge of the latest and most critical concepts, techniques, and systems in contemporary cryptography. Additionally, the book is supported with over 720 equations, more than 60 illustrations, and numerous time-saving URLs that connect you to websites with related information.

Data Hiding Techniques in Windows OS -

Nihad Ahmad Hassan 2016-09-08

"This unique book delves down into the capabilities of hiding and obscuring data object within the Windows Operating System. However, one of the most noticeable and credible features of this publication is, it takes the reader from the very basics and background of data hiding techniques, and run's on the reading-road to arrive at some of the more complex methodologies employed for concealing data object from the human eye and/or the investigation. As a practitioner in the Digital Age, I can see this book sitting on the shelves of Cyber Security Professionals, and those working in the world of Digital Forensics - it is a recommended read, and is in my opinion a very valuable asset to those who are interested in the landscape of unknown unknowns. This is a book which may well help to discover more about that which is not in immediate view of the onlooker, and open up the mind to expand its imagination beyond its accepted limitations of known

knowns." - John Walker, CSIRT/SOC/Cyber Threat Intelligence Specialist Featured in Digital Forensics Magazine, February 2017 In the digital world, the need to protect online communications increase as the technology behind it evolves. There are many techniques currently available to encrypt and secure our communication channels. Data hiding techniques can take data confidentiality to a new level as we can hide our secret messages in ordinary, honest-looking data files. Steganography is the science of hiding data. It has several categorizations, and each type has its own techniques in hiding. Steganography has played a vital role in secret communication during wars since the dawn of history. In recent days, few computer users successfully manage to exploit their Windows® machine to conceal their private data. Businesses also have deep concerns about misusing data hiding techniques. Many employers are amazed at how easily their valuable information can get out of their company walls. In many legal cases a disgruntled employee would successfully steal company private data despite all security measures implemented using simple digital hiding techniques. Human right activists who live in countries controlled by oppressive regimes need ways to smuggle their online communications without attracting surveillance monitoring systems, continuously scan in/out internet traffic for interesting keywords and other artifacts. The same applies to journalists and whistleblowers all over the world. Computer forensic investigators, law enforcements officers, intelligence services and IT security professionals need a guide to tell them where criminals can conceal their data in Windows® OS & multimedia files and how they can discover concealed data quickly and retrieve it in a forensic way. Data Hiding Techniques in Windows OS is a response to all these concerns. Data hiding topics are usually approached in most books using an academic method, with long math equations about how each hiding technique algorithm works behind the scene, and are usually targeted at people who work in the academic arenas. This book teaches professionals and end users alike how they can hide their data and discover the hidden ones using a variety of ways under the most

commonly used operating system on earth, Windows®.

Encyclopedia of Computer Science and Technology - Phillip A. Laplante 2017-10-02

With breadth and depth of coverage, the Encyclopedia of Computer Science and Technology, Second Edition has a multi-disciplinary scope, drawing together comprehensive coverage of the inter-related aspects of computer science and technology. The topics covered in this encyclopedia include: General and reference Hardware Computer systems organization Networks Software and its engineering Theory of computation Mathematics of computing Information systems Security and privacy Human-centered computing Computing methodologies Applied computing Professional issues Leading figures in the history of computer science The encyclopedia is structured according to the ACM Computing Classification System (CCS), first published in 1988 but subsequently revised in 2012. This classification system is the most comprehensive and is considered the de facto ontological framework for the computing field. The encyclopedia brings together the information and historical context that students, practicing professionals, researchers, and academicians need to have a strong and solid foundation in all aspects of computer science and technology.

Advances in Distributed Computing and Machine Learning - Rashmi Ranjan Rout 2022-07-27

This book includes a collection of peer-reviewed best selected research papers presented at the Third International Conference on Advances in Distributed Computing and Machine Learning (ICADCML 2022), organized by Department of Computer Science and Engineering, National Institute of Technology, Warangal, Telangana, India, during 15–16 January 2022. This book presents recent innovations in the field of scalable distributed systems in addition to cutting edge research in the field of Internet of Things (IoT) and blockchain in distributed environments.

Distributed Denial of Service Attacks - Rajeev Singh 2021-07-19

Without mathematics no science would survive. This especially applies to the engineering sciences which highly depend on the

applications of mathematics and mathematical tools such as optimization techniques, finite element methods, differential equations, fluid dynamics, mathematical modelling, and simulation. Neither optimization in engineering, nor the performance of safety-critical system and system security; nor high assurance software architecture and design would be possible without the development of mathematical applications. De Gruyter Series on the Applications of Mathematics in Engineering and Information Sciences (AMEIS) focuses on the latest applications of engineering and information technology that are possible only with the use of mathematical methods. By identifying the gaps in knowledge of engineering applications the AMEIS series fosters the international interchange between the sciences and keeps the reader informed about the latest developments.

Event-Trigger Dynamic State Estimation for Practical WAMS Applications in Smart Grid - Zhen Li 2020-06-03

This book describes how dynamic state estimation application in wide-area measurement systems (WAMS) are crucial for power system reliability, to acquire precisely power system dynamics. The event trigger DSE techniques described by the authors provide a design balance between the communication rate and estimation performance, by selectively sending the innovational data. The discussion also includes practical problems for smart grid applications, such as the non-Gaussian process/measurement noise, packet dropout, computation burden of accurate DSE, robustness to the system variation, etc. Readers will learn how the event trigger DSE can facilitate the effective reduction of communication rates, with guaranteed accuracy under a variety of practical conditions in smart grid applications.

Asymptotic Statistical Inference - Shailaja Deshmukh 2021-07-05

The book presents the fundamental concepts from asymptotic statistical inference theory, elaborating on some basic large sample optimality properties of estimators and some test procedures. The most desirable property of consistency of an estimator and its large sample distribution, with suitable normalization, are

discussed, the focus being on the consistent and asymptotically normal (CAN) estimators. It is shown that for the probability models belonging to an exponential family and a Cramer family, the maximum likelihood estimators of the indexing parameters are CAN. The book describes some large sample test procedures, in particular, the most frequently used likelihood ratio test procedure. Various applications of the likelihood ratio test procedure are addressed, when the underlying probability model is a multinomial distribution. These include tests for the goodness of fit and tests for contingency tables. The book also discusses a score test and Wald's test, their relationship with the likelihood ratio test and Karl Pearson's chi-square test. An important finding is that, while testing any hypothesis about the parameters of a multinomial distribution, a score test statistic and Karl Pearson's chi-square test statistic are identical. Numerous illustrative examples of differing difficulty level are incorporated to clarify the concepts. For better assimilation of the notions, various exercises are included in each chapter. Solutions to almost all the exercises are given in the last chapter, to motivate students towards solving these exercises and to enable digestion of the underlying concepts. The concepts from asymptotic inference are crucial in modern statistics, but are difficult to grasp in view of their abstract nature. To overcome this difficulty, keeping up with the recent trend of using R software for statistical computations, the book uses it extensively, for illustrating the concepts, verifying the properties of estimators and carrying out various test procedures. The last section of the chapters presents R codes to reveal and visually demonstrate the hidden aspects of different concepts and procedures. Augmenting the theory with R software is a novel and a unique feature of the book. The book is designed primarily to serve as a text book for a one semester introductory course in asymptotic statistical inference, in a post-graduate program, such as Statistics, Bio-statistics or Econometrics. It will also provide sufficient background information for studying inference in stochastic processes. The book will cater to the need of a concise but clear and student-friendly book introducing, conceptually

and computationally, basics of asymptotic inference.

Engineering Secure Software and Systems - Fabio MASSACCI 2009-03-27

This book constitutes the refereed proceedings of the First International Symposium on Engineering Secure Software and Systems, ESSoS 2009, held in Leuven, Belgium, in February 2009. The 10 revised full papers presented together with 7 industry reports and ideas papers were carefully reviewed and selected from 57 submissions. The papers are organized in topical sections on policy verification and enforcement, model refinement and program transformation, secure system development, attack analysis and prevention, as well as testing and assurance.

D.C. Criminal Code Revisions - United States. Congress. House. Committee on the District of Columbia. Judiciary Subcommittee 1978

Designing Secure IoT Devices with the Arm Platform Security Architecture and Cortex-M33 - Trevor Martin 2022-04-28

Designing Secure IoT devices with the Arm Platform Security Architecture and Cortex-M33 explains how to design and deploy secure IoT devices based on the Cortex-M23/M33 processor. The book is split into three parts. First, it introduces the Cortex-M33 and its architectural design and major processor peripherals. Second, it shows how to design secure software and secure communications to minimize the threat of both hardware and software hacking. And finally, it examines common IoT cloud systems and how to design and deploy a fleet of IoT devices. Example projects are provided for the Keil MDK-ARM and NXP LPCXpresso tool chains. Since their inception, microcontrollers have been designed as functional devices with a CPU, memory and peripherals that can be programmed to accomplish a huge range of tasks. With the growth of internet connected devices and the Internet of Things (IoT), "plain old microcontrollers are no longer suitable as they lack the features necessary to create both a secure and functional device. The recent development by ARM of the Cortex M23 and M33 architecture is intended for today's IoT world. Shows how to design secure software and

secure communications using the ARM Cortex M33-based microcontrollers Explains how to write secure code to minimize vulnerabilities using the CERT-C coding standard Uses the mbedtls library to implement modern cryptography Introduces the TrustZone security peripheral PSA security model and Trusted Firmware Legal requirements and reaching device certification with PSA Certified

Trends in Biomathematics: Modeling Cells, Flows, Epidemics, and the Environment - Rubem P. Mondaini 2020-07-06

This volume offers a collection of carefully selected, peer-reviewed papers presented at the BIOMAT 2019 International Symposium, which was held at the University of Szeged, Bolyai Institute and the Hungarian Academy of Sciences, Hungary, October 21st-25th, 2019. The topics covered in this volume include tumor and infection modeling; dynamics of co-infections; epidemic models on networks; aspects of blood circulation modeling; multidimensional modeling approach via time-frequency analysis and Edge Based Compartmental Model; and more. This book builds upon the tradition of the previous BIOMAT volumes to foster interdisciplinary research in mathematical biology for students, researchers, and professionals. Held every year since 2001, the BIOMAT International Symposium gathers together, in a single conference, researchers from Mathematics, Physics, Biology, and affine fields to promote the interdisciplinary exchange of results, ideas and techniques, promoting truly international cooperation for problem discussion. The 2019 edition of BIOMAT International Symposium received contributions by authors from 14 countries: Brazil, Cameroon, Canada, Colombia, Czech Republic, Finland, Hungary, India, Italy, Russia, Senegal, Serbia, United Kingdom and the USA. Selected papers presented at the 2017 and 2018 editions of this Symposium were also published by Springer, in the volumes "Trends in Biomathematics: Modeling, Optimization and Computational Problems" (978-3-319-91091-8) and "Trends in Biomathematics: Mathematical Modeling for Health, Harvesting, and Population Dynamics" (978-3-030-23432-4).

Emerging Research in Computing, Information, Communication and

Applications - N. R. Shetty 2019-05-02

This book presents selected papers from the International Conference on Emerging Research in Computing, Information, Communication and Applications, ERCICA 2018. The conference provided an interdisciplinary forum for researchers, professional engineers and scientists, educators, and technologists to discuss, debate and promote research and technology in the emerging areas of computing, information, communication and their applications. The book discusses these research areas, providing a valuable resource for researchers and practicing engineers alike.

IMDC-SDSP 2020 - Raed Abd-Alhameed 2020-09-09

IMDC-SDSP conference offers an exceptional platform and opportunity for practitioners, industry experts, technocrats, academics, information scientists, innovators, postgraduate students, and research scholars to share their experiences for the advancement of knowledge and obtain critical feedback on their work. The timing of this conference coincides with the rise of Big Data, Artificial Intelligence powered applications, Cognitive Communications, Green Energy, Adaptive Control and Mobile Robotics towards maintaining the Sustainable Development and Smart Planning and management of the future technologies. It is aimed at the knowledge generated from the integration of the different data sources related to a number of active real-time applications in supporting the smart planning and enhance and sustain a healthy environment. The conference also covers the rise of the digital health, well-being, home care, and patient-centred era for the benefit of patients and healthcare providers; in addition to how supporting the development of a platform of smart Dynamic Health Systems and self-management.

VLSI, Microwave and Wireless Technologies - Brijesh Mishra

This book comprises the proceedings of the International Conference on VLSI & Microwave and Wireless Technologies (ICVMWT-2021). The book includes peer-reviewed papers on the core technological developments in emerging fields like wireless communication, RF microwave/radar, VLSI, optical communication, etc. The book will serve as a valuable reference

resource for academics and researchers across the globe.

Cryptography 101: From Theory to Practice -

Rolf Oppliger 2021-06-30

This exciting new resource provides a comprehensive overview of the field of cryptography and the current state of the art. It delivers an overview about cryptography as a field of study and the various unkeyed, secret key, and public key cryptosystems that are available, and it then delves more deeply into the technical details of the systems. It introduces, discusses, and puts into perspective the cryptographic technologies and techniques, mechanisms, and systems that are available today. Random generators and random functions are discussed, as well as one-way functions and cryptography hash functions. Pseudorandom generators and their functions are presented and described. Symmetric encryption is explored, and message authenticational and authenticated encryption are introduced. Readers are given overview of discrete

mathematics, probability theory and complexity theory. Key establishment is explained.

Asymmetric encryption and digital signatures are also identified. Written by an expert in the field, this book provides ideas and concepts that are beneficial to novice as well as experienced practitioners.

Watermarking - Mithun Das Gupta 2012-05-16

This collection of books brings some of the latest developments in the field of watermarking.

Researchers from varied background and expertise propose a remarkable collection of chapters to render this work an important piece of scientific research. The chapters deal with a gamut of fields where watermarking can be used to encode copyright information. The work also presents a wide array of algorithms ranging from intelligent bit replacement to more traditional methods like ICA. The current work is split into two books. Book one is more traditional in its approach dealing mostly with image watermarking applications. Book two deals with audio watermarking and describes an array of chapters on performance analysis of algorithms.