# Psbd Security Notes

This handbook is an authoritative, comprehensive reference on optical networks, the backbone of today's communication and information society. The book reviews the many underlying technologies that enable the global optical communications infrastructure, but also explains current research trends targeted towards continued capacity scaling and enhanced networking flexibility in support of an unabated traffic growth fueled by ever-emerging new applications. The book is divided into four parts: Optical Subsystems for Transmission and Switching, Core Networks, Datacenter and Super-Computer Networking, and Optical Access and Wireless Networks. Each chapter is written by world-renown experts that represent academia, industry, and international government and regulatory agencies. Every chapter provides a complete picture of its field, from entry-level information to a snapshot of the respective state-of-the-art technologies to emerging research trends, providing something useful for the novice who wants to get familiar with the field to the expert who wants to get a concise view of future trends.

Microalgae are one of the most studied potential sources of biofuels and bioenergy. This book covers the key steps in the production of renewable biofuels from microalgae - strain selection, culture systems, inorganic carbon utilisation, lipid metabolism and quality, hydrogen production, genetic engineering, biomass harvesting, extraction. Greenhouse gas and techno-economic modelling are reviewed as is the 100 year history of microalgae as sources of biofuels and of commercial-scale microalgae culture. A summary of relevant basic standard methods used in the study of microalgae culture is provided. The book is intended for the expert and those starting work in the field.?

This volume examines how and to what extent security officers make use of`legal tools. The work identifies these tools and draws on two case-study sites to illustrate how security officers make use of them as well as how they fit in broader security systems to secure compliance. The study also examines the occupational culture of security officers and links them into the broader systems of security that operate to police nodes of governance. The book provides insights for researchers and policy-makers seeking to develop policy for the expanding private security industry.

This handbook provides an overarching view of cyber security and digital forensic challenges related to big data and IoT environment, prior to reviewing existing data mining solutions and their potential application in big data context, and existing authentication and access control for IoT devices. An IoT access control scheme and an IoT forensic framework is also presented in this book, and it explains how the IoT forensic framework can be used to guide investigation of a popular cloud storage service. A distributed file system forensic approach is also presented, which is used to guide the investigation of Ceph. Minecraft, a Massively Multiplayer Online Game, and the Hadoop distributed file system environment are also forensically studied and their findings reported in this book. A forensic IoT source camera identification algorithm is introduced, which uses the camera's sensor pattern noise from the captured image. In addition to the IoT access control and forensic frameworks, this handbook covers a cyber defense triage process for nine advanced persistent threat (APT) groups targeting IoT infrastructure, namely: APT1, Molerats, Silent Chollima, Shell Crew,

NetTraveler, ProjectSauron, CopyKittens, Volatile Cedar and Transparent Tribe. The characteristics of remote-controlled real-world Trojans using the Cyber Kill Chain are also examined. It introduces a method to leverage different crashes discovered from two fuzzing approaches, which can be used to enhance the effectiveness of fuzzers. Cloud computing is also often associated with IoT and big data (e.g., cloud-enabled IoT systems), and hence a survey of the cloud security literature and a survey of botnet detection approaches are presented in the book. Finally, game security solutions are studied and explained how one may circumvent such solutions. This handbook targets the security, privacy and forensics research community, and big data research community, including policy makers and government agencies, public and private organizations policy makers. Undergraduate and postgraduate students enrolled in cyber security and forensic programs will also find this handbook useful as a reference. This book provides in-depth information on basic and applied aspects of biofuels production from algae. It begins with an introduction to the topic, and follows with the basic scientific aspects of algal cultivation and its use for biofuels production, such as photo bioreactor engineering for microalgae production, open culture systems for biomass production and the economics of biomass production. It provides state-of-the-art information on synthetic biology approaches for algae suitable for biofuels production, followed by algal biomass harvesting, algal oils as fuels, biohydrogen production from algae, formation/production of co-products, and more. The book also covers topics such as metabolic engineering and molecular biology for algae for fuel production, life cycle assessment and scale-up and commercialization. It is highly useful and helps you to plan new research and design new economically viable processes for the production of clean fuels from algae. Covers in a comprehensive but concise way most of the algae biomass conversion technologies currently available Lists all the products produced from algae, i.e. biohydrogen, fuel oils, etc., their properties and potential uses Includes the economics of the various processes and the necessary steps for scaling them up

This proceedings volume presents selected papers from the 7th International Conference on Emerging Databases: Technologies, Applications, and Theory (EDB 2017), which was held in Busan, Korea from 7 to 9 August, 2017. This conference series was launched by the Korean Institute of Information Scientists and Engineers (KIISE) Database Society of Korea as an annual forum for exploring novel technologies, applications, and research advances in the field of emerging databases. This forum has evolved into the premier international venue for researchers and practitioners to discuss current research issues, challenges, new technologies, and solutions.

The Security Industry Authority, the body which licences security guards, door supervisors and vehicle immobilisers, has secured a high level of compliance by people working in the industry with the requirement to be licensed. As at the end of May 2008, the Authority had issued over 248,000 licences and compliance is over 90 per cent. Its efficiency has, however, been hampered by poor forecasting of licensing demand and costs and difficulties with the computerised systems procured to process licence applications. When the Authority was created in 2003, the licence fee was set at £190 but it was costing the Authority £215 to process an application. As a result, the Authority needed an additional £17.4 million of public funding between 2004-05 and

2007-08 to carry out its work. In the winter of 2005-06, the Authority's original system for producing licences was unable to cope with the large number of later than planned applications the Authority received. In autumn 2007, the Authority's replacement system was not ready on time and a backlog of applications arose. These two problems resulted in the Authority incurring additional costs of £1 million. The Private Security Industry Act 2001 set up the Authority to regulate individuals, but in a number of other countries the equivalent bodies also regulate businesses. The NAO recommends that in addition to individuals all private security businesses should be registered with the Authority. The SIA has already started a feasibility study to consider the compulsory registration of private security companies.

We solicit high quality original research papers (and significant work in progress papers) in any aspect of Big Data with emphasis on 5Vs (Volume, Velocity, Variety, Value and Veracity), including the Big Data challenges in scientific and engineering, social, sensor IoT IoE, and multimedia (audio, video, image, etc ) big data systems and applications

The world is witnessing the growth of a global movement facilitated by technology and social media. Fueled by information, this movement contains enormous potential to create more accountable, efficient, responsive, and effective governments and businesses, as well as spurring economic growth. Big Data Governance and Perspectives in Knowledge Management is a collection of innovative research on the methods and applications of applying robust processes around data, and aligning organizations and skillsets around those processes. Highlighting a range of topics including data analytics, prediction analysis, and software development, this book is ideally designed for academicians, researchers, information science professionals, software developers, computer engineers, graduate-level computer science students, policymakers, and managers seeking current research on the convergence of big data and information governance as two major trends in information management.

Written with the non-mathematician in mind, QUANTITATIVE METHODS FOR BUSINESS, 13E by award-winning authors Anderson, Sweeney, Williams, Camm, Cochran, Fry, and Ohlmann equips your students with a strong conceptual understanding of the critical role that quantitative methods play in today's decision-making process. This applications-oriented text clearly introduces current quantitative methods, how they work, and how savvy decision makers can most effectively apply and interpret data. A strong managerial orientation motivates learning by weaving relevant, real-world examples throughout. The authors' hallmark Problem-Scenario Approach helps readers understand and apply mathematical concepts and techniques. The 13th Edition includes a more holistic description of how variable activity times affect the probability of a project meeting a deadline. In addition, numerous all-new Q.M. in Action vignettes, homework problems, and end-of-chapter cases are included. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Software Architecture for Big Data and the Cloud is designed to be a single resource that brings together research on how software architectures can solve the challenges imposed by building big data software systems. The challenges of big data on the software architecture can relate to scale, security, integrity, performance, concurrency, parallelism, and dependability, amongst others. Big data handling requires rethinking

architectural solutions to meet functional and non-functional requirements related to volume, variety and velocity. The book's editors have varied and complementary backgrounds in requirements and architecture, specifically in software architectures for cloud and big data, as well as expertise in software engineering for cloud and big data. This book brings together work across different disciplines in software engineering, including work expanded from conference tracks and workshops led by the editors. Discusses systematic and disciplined approaches to building software architectures for cloud and big data with state-of-the-art methods and techniques Presents case studies involving enterprise, business, and government service deployment of big data applications Shares guidance on theory, frameworks, methodologies, and architecture for cloud and big data

This book presents the first comprehensive compilation of genome research on the Hevea brasiliensis rubber tree. The genomes of Hevea tree clones (cultivars) are described by three major international groups. Chapters on omics-driven investigations address a broad range of topics including genome annotation and utilisation, transcriptome and gene family analysis, genetic mapping, metabolic pathways in latex and molecular breeding. Additionally, an overview of fundamental rubber biology, especially on laticifers, provides a historical background that is relevant to rubber genome analysis. The book concludes with several perspectives on the future needs of rubber investigations and prospects of rubber genomics. Given the scope of topics, this book will appeal to researchers and university students working in genomics and biotechnology of the rubber tree, and to rubber breeders with an interest in non-conventional approaches to trait analysis, selection and breeding.

Harnessing the sun's energy via photosynthesis is at the core of sustainable production of food, fuel, and materials by plants, algae, and cyanobacteria. Photosynthesis depends on photoprotection against intense sunlight, starting with the safe removal of excess excitation energy from the light-harvesting system, which can be quickly and non-destructively assessed via non-photochemical quenching of chlorophyll fluorescence (NPQ). By placing NPQ into the context of whole-organism function, this book aims to contribute towards identification of plant and algal lines with superior stress resistance and productivity. By addressing agreements and open questions concerning photoprotection's molecular mechanisms, this book contributes towards development of artificial photosynthetic systems. A comprehensive picture –from single molecules to organisms in ecosystems, and from leading expert's views to practical information for non-specialists on NPQ measurement and terminology – is presented.

A fresh approach to the interdisciplinary humanities course that takes a strong multicultural approach to the visual and performing arts. Organized thematically, the text covers painting, printmaking, sculpture, camera arts, architecture, music, and drama. History is taught from the perspective of the individual - artists come alive as students discover the artists' backgrounds and where they fit in the social history and cultural context. The text builds an appreciation for the language of the arts with discussion of techniques, vocabulary, and definitions.

KE is applied to the four major equating designs and to both Chain Equating and Post-Stratification Equating for the Non-Equivalent groups with Anchor Test Design. It will be an important reference for several groups: (a) Statisticians (b) Practitioners and (c)

Instructors in psychometric and measurement programs. The authors assume some familiarity with linear and equipercentile test equating, and with matrix algebra.

The past decade has witnessed an explosion of our knowledge on the structure, coding capacity and evolution of the genomes of the two DNA-containing cell organelles in plants: chloroplasts (plastids) and mitochondria. Comparative genomics analyses have provided new insights into the origin of organelles by endosymbioses and uncovered an enormous evolutionary dynamics of organellar genomes. In addition, they have greatly helped to clarify phylogenetic relationships, especially in algae and early land plants with limited morphological and anatomical diversity. This book, written by leading experts, summarizes our current knowledge about plastid and mitochondrial genomes in all major groups of algae and land plants. It also includes chapters on endosymbioses, plastid and mitochondrial mutants, gene expression profiling and methods for organelle transformation. The book is designed for students and researchers in plant molecular biology, taxonomy, biotechnology and evolutionary biology.

The past decade has seen rapid growth in the private security industry, both in Africa and globally. Private security companies have diversified their activities to include military advice and training, arms procurement, intelligence gathering, logistical and medical support and in limited instances, combat and operational support. As a result many African governments have engaged the services of internationally-operating private security companies, such as the American firms MPRI (Military and Professional Resources International), Dyncorp and PAE (Pacific Architects and Engineers), while more 'traditional' security companies such as Saracen, Gray Security and others are active in a number of countries such as Kenya, Uganda and South Africa.

Open Source Systems Security Certification discusses Security Certification Standards and establishes the need to certify open source tools and applications. This includes the international standard for the certification of IT products (software, firmware and hardware) Common Criteria (ISO/IEC 15408) (CC 2006), a certification officially adopted by the governments of 18 nations. Without security certification, open source tools and applications are neither secure nor trustworthy. Open Source Systems Security Certification addresses and analyzes the urgency of security certification for security-sensible markets, such as telecommunications, government and the military, through provided case studies. This volume is designed for professionals and companies trying to implement an Open Source Systems (OSS) aware IT governance strategy, and SMEs looking to attract new markets traditionally held by proprietary products or to reduce costs. This book is also suitable for researchers and advanced-level students.

Though the exact nature and delineation of Big Data is still unclear, it seems likely that Big Data will have an enormous impact on our daily lives. 'Exploring the Boundaries of Big Data' serves as preparatory work for The Netherlands Scientific Council for Government Policy's advice to the Dutch government, which has asked the Council to address questions regarding Big Data, security and privacy. It is divided into five parts, each part engaging with a different perspective on Big Data: the technical, empirical, legal, regulatory and international perspective.

This volume constitutes the refereed proceedings of the 12th Asian Conference on Intelligent Information and Database Systems, ACIIDS 2020, held in Phuket, Thailand,

in March 2020. The total of 50 full papers accepted for publication in these proceedings were carefully reviewed and selected from 180 submissions. The papers are organized in the following topical sections: ?advanced big data, machine learning and data mining; industry applications of intelligent methods and systems; artificia intelligence, optimization, and databases in practical applications; intelligent applications of internet of things; recommendation and user centric applications of intelligent systems.

This book presents the first in-depth academic investigation published in English about one of the most radical incarnations of the current global wave of new right-wing movements and governments: the movement that brought to power the current Brazilian president, Jair Bolsonaro. The rise of this new right-wing movement in Brazil came as a surprise to many analysts who used to see the country as a successful example of the implementation of progressive social policies in the first decade of the 21st century, and posed many questions to those seeking to understand the role Brazil now plays in the development of this international far-right wave. The authors of this volume try to answer some of these questions by presenting the results of an extensive field research conducted over the years with Bolsonaro supporters and members of the new Brazilian right-wing movements. They have analyzed quantitative and especially qualitative data to accompany the accelerated transformations of the Brazilian public sphere, starting from small liberal and conservative groups on social media towards larger audiences via book publishing, the education system, the mainstream media, and the political-party system. By framing the Brazilian case in the wider international political scenario, The Bolsonaro Paradox: The Public Sphere and Right-Wing Counterpublicity in Contemporary Brazil will be an invaluable resource for sociologists, political scientists, international relations scholars and other social scientists – as well as to journalists and political analysts – interested in better understanding the role Brazil plays in the global rise of new far-right movements and governments.

The 4 volume set LNCS 12112-12114 constitutes the papers of the 25th International Conference on Database Systems for Advanced Applications which will be held online in September 2020. The 119 full papers presented together with 19 short papers plus 15 demo papers and 4 industrial papers in this volume were carefully reviewed and selected from a total of 487 submissions. The conference program presents the state-of-the-art R&D activities in database systems and their applications. It provides a forum for technical presentations and discussions among database researchers, developers and users from academia, business and industry.

Operation Devil Horns delivers a high-impact, true insider account of one of the largest federal takedowns of a criminal gang in U.S. history. The story follows a four-year investigation that begins in San Francisco and grows to include criminal networks spanning three countries' borders. Politicians, cops, and criminals meet at center stage.

Applied Molecular Biotechnology: The Next Generation of Genetic Engineering explains state-of-the-art advances in the rapidly developing area of molecular biotechnology, the technology of the new millennium. Comprised of chapters authored by leading experts in their respective fields, this authoritative reference text: Highlights the latest omics-based tools and approaches used in modern

biotechnology Explains how various molecular biology technologies can be used to develop transgenic plants and how those plants can meet growing food and plant-derived product demands Discusses chloroplast gene expression systems, mitochondrial omics, plant functional genomics, and whole-genome resequencing for crop improvement Explores plant–microbe and plant–insect interactions affecting plant protection and productivity Covers animal models, pharmacogenomics, human tissue banking, and the molecular diagnosis of diseases such as cervical cancer, obesity, and diabetes Examines the molecular aspects of viral diseases, production of industrial commodities using viral biotechnology, and biotechnological uses of magnetic nanoparticles Describes the use of biotechnology in the food, chemical, pharmaceutical, environmental conservation, and renewable energy sectors Applied Molecular Biotechnology: The Next Generation of Genetic Engineering serves as a springboard for new discoveries in molecular biology and its applications. Thus, this book is an invaluable resource for students and researchers of molecular biotechnology. The Political Logic of Poverty Relief places electoral politics and institutional design at the core of poverty alleviation. The authors develop a theory with applications to Mexico about how elections shape social programs aimed at aiding the poor. They also assess whether voters reward politicians for targeted poverty alleviation programs. Jmol is an interactive viewer for molecular models in the computer. This book aims to be both a tutorial for beginners and a handbook for reference and deepening for more skilled users. It may be of profit for instructors, content authors, students, researchers, and administrators or designers of information portals. The book is organized in sections for a gradual learning curve. It starts with the simplest and most frequent commands and then advances into the occasional, specific and more complex ones. There are sections addressed to those who only need occasional and basic use, another that explains how to take advantage of the command language -split into two levels and further continued on vol. 2- and, finally, a section only needed by those interested on preparing web pages to present models to others. A command index is included, as well as a glossary and a listing of reference addresses in internet, including that of the companion website created for this book. A Decade of Extraordinary Growth The past decade has brought a surge of growth in the technologies for digital color imaging, multidimensional signal processing, and visual scene analysis. These advances have been crucial to developing new camera-driven applications and commercial products in digital photography. Single-Sensor Imaging: Methods and Applications for Digital Cameras embraces this extraordinary progress, comprehensively covering state-of-the-art systems, processing techniques, and emerging applications. Experts Address Challenges and Trends Single-Sensor Imaging: Methods and Applications for Digital Cameras presents leading experts elucidating their own accomplishments in developing the technologies reshaping this field. The editor

invited renowned authorities to address specific research challenges and recent trends in their particular areas of expertise. The book discusses single-sensor digital color imaging fundamentals, including reusable embedded software platform, digital camera image processing chain, optical filter and color filter array designs. It also details the latest techniques and approaches in contemporary and traditional digital camera color image processing and analysis for various sophisticated applications, including: Demosaicking and color restoration White balancing and color transfer Color and exposure correction Image denoising and color enhancement Image compression and storage formats Red-eye detection and removal Image resizing Video-demosaicking and superresolution imaging Image and video stabilization A Solid Foundation of Knowledge to Solve Problems Single-Sensor Imaging: Methods and Applications for Digital Cameras builds a strong fundamental understanding of theory and methods for solving many of today's most interesting and challenging problems in digital color image and video acquisition, analysis, processing, and storage. A broad survey of the existing solutions and relevant literature makes this book a valuable resource both for researchers and those applying rapidly evolving digital camera technologies.

Society is now completely driven by data with many industries relying on data to conduct business or basic functions within the organization. With the efficiencies that big data bring to all institutions, data is continuously being collected and analyzed. However, data sets may be too complex for traditional data-processing, and therefore, different strategies must evolve to solve the issue. The field of big data works as a valuable tool for many different industries. The Research Anthology on Big Data Analytics, Architectures, and Applications is a complete reference source on big data analytics that offers the latest, innovative architectures and frameworks and explores a variety of applications within various industries. Offering an international perspective, the applications discussed within this anthology feature global representation. Covering topics such as advertising curricula, driven supply chain, and smart cities, this research anthology is ideal for data scientists, data analysts, computer engineers, software engineers, technologists, government officials, managers, CEOs, professors, graduate students, researchers, and academicians.

Partly autobiographical, this is the third title in Judith Kerr's internationally acclaimed trilogy of books following the life of Anna through war-torn Germany, to London during the Blitz and her return to Berlin to discover the past...

The population of the world continues to increase at an alarming rate. The trouble linked with overpopulation ranges from food and water scarcity to inadequacy of space for organisms. Overpopulation is also linked with several other demographic hazards, for instance, population blooming will not only result in exhaustion of natural repositories, but it will also induce intense pressure on the world economy. Today nanotechnology is often discussed as a key discipline of research but it has positive and negative aspects. Also, due to industrialization and ever-increasing population, nano-pollution has been an emerging topic among scientists for investigation and

debate. Nanotechnology measures any substance on a macromolecular scale, molecular scale, and even atomic scale. More importantly, nanotechnology deals with the manipulation and control of any matter at the dimension of a single nanometer. Nanotechnology and nanoparticles (NPs) play important roles in sustainable development and environmental challenges as well. NPs possess both harmful and beneficial effects on the environment and its harboring components, such as microbes, plants, and humans. There are many beneficial impacts exerted by nanoparticles, however, including their role in the management of waste water and soil treatment, cosmetics, food packaging, agriculture, biomedicines, pharmaceuticals, renewable energies, and environmental remedies. Conversely, NPs also show some toxic effects on microbes, plants, as well as human beings. It has been reported that use of nanotechnological products leads to the more accumulation of NPs in soil and aquatic ecosystems, which may be detrimental for living organisms. Further, toxic effects of NPs on microbes, invertebrates, and aquatic organisms including algae, has been measured. Scientists have also reported on the negative impact of NPs on plants by discussing the delivery of NPs in plants. Additionally, scientists have also showed that NPs interact with plant cells, which results in alterations in growth, biological function, gene expression, and development. Thus, there has been much investigated and reported on NPs and plant interactions in the last decade. This book discusses the most recent work on NPs and plant interaction, which should be useful for scientists working in nanotechnology across a wide variety of disciplines.

This cutting-edge Research Agenda for Place Branding explores ideas and debates that inform a refreshing take on the future of place branding and marketing. It argues that we are at a juncture where the logical and sensible step is to push the 'reset button' on such activity and fully reconsider its purpose and goals.

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