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Security, Privacy, and Digital Forensics in the Cloud Springer Nature  
Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. **Strengthening Forensic Science in the United States: A Path Forward**

provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. **Strengthening Forensic Science in the United States** gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society CRC

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## Press

The growing presence of biologically-inspired processing has caused significant changes in data retrieval. With the ubiquity of these technologies, more effective and streamlined data processing techniques are available. **Bio-Inspired Computing for Information Retrieval Applications** is a key resource on the latest advances and research regarding current techniques that have evolved from biologically-inspired processes and its application to a variety of problems. Highlighting multidisciplinary studies on data processing, swarm-based clustering, and evolutionary computation, this publication is an ideal reference source for researchers, academics, professionals, students, and practitioners.

**Semiconductor Physics and Devices** Thomson Brooks/Cole

Publisher Description

**Advances in Big Data Analytics** Springer

This book introduces researchers and practitioners to Cyber-Physical Systems (CPS) and its applications in the built environment. It begins with a fundamental introduction to CPS technology and associated concepts. It then presents numerous examples of applications from managing construction projects to smart transportation systems and smart cities. It concludes with a discussion of future directions for CPS deployment in the construction, operation and maintenance of constructed facilities. Featuring internationally recognized experts as contributors, **Cyber-Physical Systems in the Built Environment**, is an ideal resource for engineers, construction managers, architects, facilities managers, and planners working on a range of building and civil infrastructure projects.

**Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society** John Wiley & Sons  
The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

**Infrastructure Development and Construction Management** CRC Press  
This book takes a modern, all-inclusive look at manufacturing processes. Its coverage is strategically divided—65% concerned with manufacturing process technologies, 35% dealing with engineering materials and production systems.

**Modelling Congenital Heart Disease** Springer Science & Business Media  
Innovation, in economic activity, in managerial concepts and in engineering design, results from creative activities, entrepreneurial strategies and the business climate. Innovation leads to technological, organizational and commercial

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changes, due to the relationships between enterprises, public institutions and civil society organizations. These innovation networks create new knowledge and contribute to the dissemination of new socio-economic and technological models, through new production and marketing methods. Innovation Economics, Engineering and Management Handbook 2 is the second of the two volumes that comprise this book. The main objectives across both volumes are to study the innovation processes in today's information and knowledge society; to analyze how links between research and business have intensified; and to discuss the methods by which innovation emerges and is managed by firms, not only from a local perspective but also a global one. The studies presented in these two volumes contribute toward an understanding of the systemic nature of innovations and enable reflection on their potential applications, in order to think about the meaning of growth and prosperity

Strengthening Forensic Science in the United States Routledge

This textbook introduces electrical engineering students to the most relevant concepts and techniques in three major areas today in power system engineering, namely analysis, security and deregulation. The book carefully integrates theory and practical applications. It emphasizes power flow analysis, details analysis problems in systems with fault conditions, and discusses transient stability problems as well. In addition, students can acquire software development skills in MATLAB and in the usage of state-of-the-art software tools such as Power World Simulator (PWS) and Siemens PSS/E. In any energy management/operations control centre, the knowledge of contingency analysis, state estimation and optimal power flow is of utmost importance. Part 2 of the book provides comprehensive coverage of these topics. The key issues in electricity deregulation and restructuring of power systems such as Transmission Pricing, Available Transfer Capability (ATC), and pricing methods in the context of Indian scenario are discussed in detail in Part 3 of the book. The book is interspersed with problems for a sound understanding of various aspects of power systems. The questions at the end of each chapter are provided to reinforce the knowledge of students as well as prepare them from the examination point of view. The book will be useful to both the undergraduate students of electrical engineering and postgraduate students of power

engineering and power management in several courses such as Power System Analysis, Electricity Deregulation, Power System Security, Restructured Power Systems, as well as laboratory courses in Power System Simulation.

Bio-Inspired Computing for Information Retrieval Applications  
National Academies Press

This book introduces readers to state-of-the-art cases and tools for managing innovation in today's rapidly changing business environment. It provides a wealth of methodological knowhow and guidance on practical applications, as well as case studies that reveal various challenges in technology and innovation management. Written by a mix of academic scholars and practitioners, the respective chapters present tools and approaches for the early detection of emerging fields of innovation, as well as relevant processes and resources. The contributing authors hail from leading innovative companies including Google, Amazon, Intel, Daimler-Benz, and NASA.

Smart Systems and IoT: Innovations in Computing Springer Nature

This book explores the pivotal role played by technology over the past decade in advancing global public health and health care. At present, the global community faces unprecedented healthcare challenges fueled by an aging population, rising rates of chronic disease, and persistent health disparities. New technologies and advancements have the potential to extend the reach of health professionals while improving quality and efficiency of service delivery and reducing costs within the public and the private health systems. The chapters highlight the barriers faced by the global healthcare workforce in using technology to promote health and human rights of communities: Role of Digital Health, mHealth, and Low-Cost Technologies in Advancing Universal Health Coverage in Emerging Economies Telehealth and Homecare Agencies Technology and the Practice of Health Education in Conflict Zones The Worldwide Digital Divide and Access to Healthcare Technology Technology

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for Creating Better Professional Teams to Strengthen Healthcare Systems Global Public Health Disaster Management and Technology As a resource on the evolution of technology as a valuable and integral component in the promotion and practice of public health and health care, with a focus on SDG 3 targets, Technology and Global Public Health should engage students, instructors, practitioners, and other professionals interested in public health, universal health care, health technology, digital health, and health equity. Dr. Murthy has been a respected leader and mentor on scientific health-related matters within the UN system for many years. Her book develops a theoretical system connecting concepts that have coined global public health with the rapid development of technology, all with the focus to achieve Sustainable Development Goal number three, within the time frame set by World Leaders. - Henry L. Mac-Donald, Former Permanent Representative of Suriname to the United Nations

The Hierarchy of Energy in Architecture BoD – Books on Demand

This book examines how information systems research and education can play a major role in contributing to solutions to the Societal Grand Challenges formulated in “ The Millennium Project ” (millenium-project.org). Individual chapters focus on specific challenges, review existing approaches and contributions towards solutions in information systems research and outline a research agenda for these challenges. The topics considered in this volume range from climate change, population growth, global ICT availability, breakthroughs in science and technology and energy demand to ethical decision-making, policymaking, gender status and transnational crime prevention. It is the first book to present ideas on how the Information Systems discipline can contribute to the solution on this wide spectrum of grand societal challenges.

cleanup, self-cleaning materials, adsorbents, and electromagnetic shielding. This book is aimed at both newcomers and experienced researchers in the field of nanomaterials, especially those who are interested in addressing energy-related and environmental problems with the help of electrospun nanofibers. Bin Ding, PhD, and Jianyong Yu, PhD, are both Professors at the College of Materials Science and Engineering, Donghua University, China.

Software Testing John Wiley & Sons

In a unique and systematic way, this book discusses the security and privacy aspects of the cloud, and the relevant cloud forensics. Cloud computing is an emerging yet revolutionary technology that has been changing the way people live and work. However, with the continuous growth of cloud computing and related services, security and privacy has become a critical issue. Written by some of the top experts in the field, this book specifically discusses security and privacy of the cloud, as well as the digital forensics of cloud data, applications, and services. The first half of the book enables readers to have a comprehensive understanding and background of cloud security, which will help them through the digital investigation guidance and recommendations found in the second half of the book. Part One of Security, Privacy and Digital Forensics in the Cloud covers cloud infrastructure security; confidentiality of data; access control in cloud IaaS; cloud security and privacy management; hacking and countermeasures; risk management and disaster recovery; auditing and compliance; and security as a service (SaaS). Part Two addresses cloud forensics – model, challenges, and approaches; cyberterrorism in the cloud; digital forensic process and model in the cloud; data acquisition; digital evidence management, presentation, and court preparation; analysis of digital evidence; and forensics as a service (FaaS). Thoroughly covers both security and privacy of cloud and digital forensics Contributions by top researchers from the U.S., the European and other countries, and professionals active in the field of information and network security, digital and computer forensics, and cloud and big data Of interest to those focused upon security and implementation, and incident management Logical, well-structured, and organized to facilitate

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comprehension Security, Privacy and Digital Forensics in the Cloud is an ideal book for advanced undergraduate and master's-level students in information systems, information technology, computer and network forensics, as well as computer science. It can also serve as a good reference book for security professionals, digital forensics practitioners and cloud service providers.

A DIY Guide to Telemedicine for Clinicians McGraw-Hill Science, Engineering & Mathematics

Black & white print. 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.

Smart Cities Springer

This is an open access title available under the terms of a CC BY-NC-ND 4.0 International licence. It is free to read at Oxford Scholarship Online and offered as a free PDF download from OUP and selected open access locations. Why did such highly abstract ideas as truth, knowledge, or justice become so important to us? What was the point of coming to think in these terms? In The Practical Origins of Ideas Matthieu Queloz presents a philosophical method designed to answer such questions: the method of pragmatic genealogy. Pragmatic genealogies are partly fictional, partly historical narratives exploring what might have driven us to develop certain ideas in order to discover what these do for us. The book uncovers an under-appreciated tradition of pragmatic genealogy which cuts across the analytic-continental divide, running from the state-of-nature stories of

David Hume and the early genealogies of Friedrich Nietzsche to recent work in analytic philosophy by Edward Craig, Bernard Williams, and Miranda Fricker. However, these genealogies combine fictionalizing and historicizing in ways that even philosophers sympathetic to the use of state-of-nature fictions or real history have found puzzling. To make sense of why both fictionalizing and historicizing are called for, this book offers a systematic account of pragmatic genealogies as dynamic models serving to reverse-engineer the points of ideas in relation not only to near-universal human needs, but also to socio-historically situated needs. This allows the method to offer us explanation without reduction and to help us understand what led our ideas to shed the traces of their practical origins. Far from being normatively inert, moreover, pragmatic genealogy can affect the space of reasons, guiding attempts to improve our conceptual repertoire by helping us determine whether and when our ideas are worth having.

Advances in Polymer Materials and Technology Cambridge University Press  
This book examines the challenge of accelerating automation, and argues that countering and adapting to this challenge requires new methodological, philosophical, scientific, sociological, economic, ethical, and political perspectives that fundamentally rethink the categories of work and education. What is required is political will and social vision to respond to the question: What is the role of education in a digital age characterized by potential mass technological unemployment? Today's technologies are beginning to cost more jobs than they create — and this trend will continue. There have been many proposed solutions to this problem, and they invariably involve an educational vision. Yet, in a world that simply doesn't offer enough work for everyone, education is clearly not a panacea for technological unemployment. This collection presents responses to this question from a wide spectrum of disciplines, including but not limited to education studies, philosophy, history, politics, sociology, psychology, and economics.

Cyber-Physical Systems in the Built Environment Oxford University

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Press

This book combines medicinal and engineering knowledge to present engineering modelling applications (mainly computational, but also experimental) in the context of facilitating a patient-centred approach to treating congenital heart disease (CHD). After introducing the basic concepts of engineering tools, it discusses modelling and the applications of engineering techniques (e.g. computational fluid dynamics, fluid-structure interaction, structural simulations, virtual surgery, advanced image analysis, 3D printing) in specific congenital heart diseases. It also offers a number of clinical case studies describing the applications in real-life clinical practice. The final section focuses on the importance of surgical training, counselling and patient communication. Considering the unique anatomical arrangement pre/post repair in CHD, as well as the different surgical strategy and device options (e.g. stents) for interventions, a patient-specific approach is certainly warranted in this area of medicine, and engineering is helping improve our understanding of individual patients and their particular anatomy and physiology. To reinforce the idea of a necessary dialogue between clinicians and engineers, this book has not only been edited by two cardiologists and two bioengineers, but each chapter has been written by a clinician and an engineer, incorporating both voices in the description of state-of-the-art models for different CHDs.

Innovation Economics, Engineering and Management Handbook 2  
Springer

Phase-change Material based heat sinks and associated optimization remains a topic of great interest, as evident from the increasing number of citations and new applications and miniaturization. Often

the multi objective perspective of such heat sinks is ignored. This book introduces the readers to the PCM based heat sinks and Multi objective optimization. The authors have also included interesting in house experimental results on the "Rotating heat sinks" which is a first of a kind work. Useful to budding thermal researchers and practicing engineers in the field, this book is also a great start for students to understand the cooling applications in electronics and an asset to every library in a technical university. Since this book not only gives a critical review of the state of the art but also presents the authors' own results. The book will encourage, motivate and let the reader consider pursuing a research career in electronic cooling technologies.

Current Affairs Monthly Capsule December 2021 E-book - Free PDF! 2017 Worldcomp International C

Control systems play an important role in engineering. Fuzzy logic is the natural choice for designing control applications and is the most popular and appropriate for the control of home and industrial appliances. Academic and industrial experts are constantly researching and proposing innovative and effective fuzzy control systems. This book is an edited volume and has 21 innovative chapters arranged into five sections covering applications of fuzzy control systems in energy and power systems, navigation systems, imaging, and industrial engineering. Overall, this book provides a rich set of modern fuzzy control systems and their applications and will be a useful resource for the graduate students, researchers, and practicing engineers in the field of electrical engineering.

Modern Fuzzy Control Systems and Its Applications OUP India  
Engineering Metrology and Measurements is a textbook designed for students of mechanical, production and allied disciplines to facilitate learning of various

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shop-floor measurement techniques and also understand the basics of mechanical measurements.