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Proceedings of SIE 2023 Frontiers Media SA
The control of power systems and power plants is a subject of growing interest which continues to sustain a high level of research, development and application in many diverse yet complementary areas, such as maintaining a high quality but economical service and coping with environmental constraints. The papers included within this volume provide the most up to date developments in this field of research.

Energy Research Abstracts Springer Nature
This pocket-sized introduction to computational thinking and problem-solving traces its genealogy centuries before the digital computer. A few decades into the digital era, scientists discovered that thinking in terms of computation made possible an entirely new way of organizing scientific investigation. Eventually, every field had a computational branch: computational physics, computational biology, computational sociology. More recently, “computational thinking” has become part of the K–12 curriculum. But what is computational thinking? This volume in the MIT Press Essential Knowledge series offers an accessible overview—tracing a genealogy that begins centuries before digital computers and portraying computational thinking as the pioneers of computing have described it. The authors explain that computational thinking (CT) is not a set of concepts for programming; it is a way of thinking that is honed through practice: the mental skills for designing computations to do jobs for us, and for explaining and interpreting the world as a complex of information processes. Mathematically trained experts (known as “computers”) who performed complex calculations as teams engaged in CT long before electronic computers. In each chapter, the author identify different dimensions of today's highly developed CT: • Computational Methods • Computing Machines • Computing Education • Software Engineering • Computational Science • Design Along the way, they debunk inflated claims for CT and computation while making clear the power of CT in all its complexity and multiplicity.

Research Outlook,Innovations & Research Trends in Science & Technology World Scientific
Compiling the most influential papers from the IEICE Transactions in Communications, High-Performance Backbone Network Technology examines critical breakthroughs in the design and provision of effective public service networks in areas including traffic control, telephone service, real-time video transfer, voice and image transmission for a content delivery network (CDN), and Internet access. The contributors explore system structures, experimental prototypes, and field trials that herald the development of new IP networks that offer quality-of-service (QoS), as well as enhanced security, reliability, and function. Offers many hints and guidelines for future research in IP and photonic backbone network technologies

Positron Emission Tomography IGI Global
Many argue that telecommunications network infrastructure is the most impressive and important technology ever developed. Analyzing the telecom market ’ s constantly evolving trends, research directions, infrastructure, and vital needs, Telecommunication Networks responds with revolutionized engineering strategies to optimize network construction. Omnipresent in society, telecom networks integrate a wide range of technologies. These include quantum field theory for the study of optical amplifiers, software architectures for network control, abstract algebra required to design error correction codes, and network, thermal, and mechanical modeling for equipment platform design. Illustrating how and why network developers make technical decisions, this book takes a practical engineering approach to systematically assess the network as a whole—from transmission to switching. Emphasizing a uniform bibliography and description of standards, it explores existing technical developments and the potential for projected alternative architectural paths, based on current market indicators. The author characterizes new device and equipment advances not just as quality improvements, but as specific responses to particular technical market necessities. Analyzing design problems to identify potential links and commonalities between different parts of the system, the book addresses interdependence of these elements and their individual influence on network evolution. It also considers power consumption and real estate, which sometimes outweigh engineering performance data in determining a product ’ s success. To clarify the potential and limitations of each presented technology and system analysis, the book includes quantitative data inspired by real products and prototypes. Whenever possible, it applies mathematical modeling to present measured data, enabling the reader to apply demonstrated concepts in real-world situations. Covering everything from high-level architectural elements to more basic component physics, its focus is to solve a problem from different perspectives, and bridge descriptions of well-consolidated solutions with newer research trends.

Scientific and Engineering Studies: Studies in acoustic signal processing Springer Nature
Features a useful collection of important and practical papers on applying software metrics and measurement. The book details the importance of planning a successful measurement program with a complete discussion of why, what, where, when, and how to measure and who should be involved. Each chapter addresses these significant questions and provides the essential answers in building

an effective measurement program. The book differs from others on the market by focusing on the application of the metrics rather than the metrics themselves. The author's provide information based on actual experience with successful metrics programs. Each chapter includes a case study focusing on technology transfer and a set of recommended references. The book serves as a guide on the use and application of software metrics in industrial environments. It is specially designed for managers, product supervisors, and quality assurance personnel who want to know how to implement a metrics program.

Identity and Privacy Governance MDPI

Fundamentals of 5G Mobile Networks provides an overview of the key features of the 5th Generation (5G) mobile networks, discussing the motivation for 5G and the main challenges in developing this new technology. This book provides an insight into the key areas of research that will define this new system technology paving the path towards future research and development. The book is multi-disciplinary in nature, and aims to cover a whole host of intertwined subjects that will predominantly influence the 5G landscape, including the future Internet, cloud computing, small cells and self-organizing networks (SONs), cooperative communications, dynamic spectrum management and cognitive radio, Broadcast-Broadband convergence , 5G security challenge, and green RF. This book aims to be the first of its kind towards painting a holistic perspective on 5G Mobile, allowing 5G stakeholders to capture key technology trends on different layering domains and to identify potential inter-disciplinary design aspects that need to be solved in order to deliver a 5G Mobile system that operates seamlessly.

Energy: a Continuing Bibliography with Indexes CRC Press

CVPR is the premier annual computer vision event comprising the main conference and several co located workshops and short courses With its high quality and low cost, it provides an exceptional value for students, academics and industry researchers

European Optical Communications and Networks: Papers on networks Frontiers Media SA

In the early days of artificial intelligence it was widely believed that powerful computers would, in the future, enable mankind to solve many real-world problems through the use of very general inference procedures and very little domain-specific knowledge. With the benefit of hindsight, this view can now be called quite naive. The field of expert systems, which developed during the early 1970s, embraced the paradigm that Knowledge is Power - even very fast computers require very large amounts of very specific knowledge to solve non-trivial problems. Thus, the field of large knowledge bases has emerged.

ASME Technical Papers John Wiley & Sons

In the 21st century, computer integrated manufacturing (CIM) systems will not only be the economic development tools but will also be the essential means of achieving a higher level of flexibility, cohesiveness and performance. CIM systems are beginning to settle into our society and industries, with greater emphasis on the integration of economic, cultural and social aspects together with design, planning, factory automation and artificial intelligent systems.This volume of proceedings brings together 10 keynote and invited speaker addresses, and over 180 papers by practitioners from 28 countries. It documents current research and in-depth studies on the fundamental aspects of advanced CIM systems and their practical applications. The papers fall into 3 main sections: CIM Related Issues; Industrial AI Applications Aspects; and Concurrent Engineering, Advanced Design, Simulation and Flexible Manufacturing Systems.

Optical Fiber-based Plasmonics Biosensors for Biomedical Applications Springer Science & Business Media

This book is focused predominantly on academicians, research scholars belong to science and engineering, managers, scientists, technicians, and other professionals in the field of qualitative research. This book is comprehended from different sources of research in Science and Technology. On the first occasion, the task of providing researchers with a broad view of the relationship between science and technology. The second reason for writing the book was the need to fill a gap in academics and research. While many excellent books, documents, and article exist for innovative practices, we have not found a work in which we can properly understand the content that the researcher needs to understand. So, after much deliberation, we decided to collect all quality efforts in one string. At the most basic level, this book is trying to show research scholars; what science, technology, and innovations are all about. It cannot study or gain knowledge of that part and is at a level that most researchers should find clear and understandable. Our goal was to develop content that will help researchers who are beginning to use innovative practices. We hope to meet the needs of academicians, research scholars who are being encouraged to incorporate more reading and writing in the field of science and technology. In summary, this book is targeted to the needs of individuals engaged in quality research activities in science and technology. Our goal is to present the topics of creativity and innovation to this audience in a way that enables them to incorporate new skills into their daily work. We would like to thank all the contributors who have made the production of this book so fascinating and enjoyable. Their scholarship and dedicated commitment and motivation to ‘getting it right’ are the keys to the book’s quality, and we greatly appreciate their good nature over many months in the face of our editorial demands and time limits. We are also grateful for using their texts, ideas, and critical remarks We would also like to thank Prof Dr Nilam N Ghuge, Prof Dr D Ayub Khan Dawood, Prof Dr Vilas A Pharande, all reviewers and all authors for their help in consolidating the interdisciplinary of the book. We are grateful to all the 18 institutions for their support. It will not be possible to bring out this edition.

Physics Briefs Elsevier

As real-time and integrated systems become increasingly sophisticated, issues related to development life cycles, non-recurring engineering costs, and poor synergy between development teams will arise. The Handbook of Research on Embedded Systems Design provides insights from the computer science community on integrated systems research projects taking place in the European region. This premier references work takes a look at the diverse range of design principles covered by these projects, from specification at high abstraction levels using standards such as UML and related profiles to intermediate design phases. This work will be invaluable to designers of embedded software, academicians, students, practitioners, professionals, and researchers working in the computer science industry.

Power Systems and Power Plant Control 1989 Springer

Vols. 34- include section: Waves and electrons.

Urban Mass Transportation Abstracts CRC Press

This book showcases the state of the art in the field of electronics, as presented by researchers and engineers at the 54th Annual Meeting of the Italian Electronics Society (SIE), held in Noto (SR), Italy, on September 6–8, 2023. It covers a broad range of aspects, including: integrated circuits and systems, micro- and nano-electronic devices, microwave electronics, sensors and microsystems, optoelectronics and photonics, power electronics, electronic systems and applications.

Putting Social Media and Networking Data in Practice for Education, Planning, Prediction and Recommendation IOS Press

?This book constitutes the refereed proceedings of the 51st International Conference on Software Technology: Methods and Tools, TOOLS 2019, held in Innopolis, Russia, in October 2019.The 19 revised full papers and 13 short papers presented in this book were carefully reviewed and selected from 62 submissions. The papers discuss all aspects of software engineering and programming languages; machine learning; internet of things; security

computer architectures and robotics; and projects.

NBS Special Publication Information Gatekeepers Inc

Since the sound wave is the only information carrier that can propagate long distances in the ocean, underwater acoustic technology based on sound waves undoubtedly plays an important role in ocean observation. The development of underwater acoustic technology requires the support of various underwater acoustic sensors and signal processing techniques. The function of an underwater acoustic sensor is to conduct the conversion between an underwater acoustic signal and an electric signal. Their performance directly determines the quality of underwater acoustic equipment. However, the harsh environment such as high pressure, high temperature, and highly corrosive fluids, as well as different requirements such as low frequency, broad bandwidth, high power, and deep water, often affect the physical properties of materials and structural performance of transducers, which deteriorates the transducer performance. Due to the lack of comprehensive research on key techniques including material physical properties and interfacial bond properties, the reliability of structural components is often seriously affected by environmental conditions, which may lead to major performance degradation or even failure with the device performance. Therefore, it is challenging for the transducer design to balance the acoustic performance and the device's stability.

Towards Very Large Knowledge Bases Springer Nature

This Special Edition of Energies on “Energy Storage and Management for Electric Vehicles” draws together a collection of research papers that critically evaluates key areas of innovation and novelty when designing and managing the high-voltage battery system within an electrified powertrain. The addressed topics include design optimisation, mathematical modelling, control engineering, thermal management, and component sizing.

Scientific and Technical Information Output of the Langley Research Center Academic Conferences and publishing limited

This book constitutes the thoroughly refereed post-conference proceedings of the 12th International Conference on Wired/Wireless Internet Communication, WWIC 2014, held in Paris, France, during May 27-28, 2014. The 22 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on wireless and wired networks; resource management and next generation services; next generation services, network architecture and applications.

Fundamentals of 5G Mobile Networks John Wiley & Sons

This book focusses on recommendation, behavior, and anomaly, among of social media analysis. First, recommendation is vital for a variety of applications to narrow down the search space and to better guide people towards educated and personalized alternatives. In this context, the book covers supporting students, food venue, friend and paper recommendation to demonstrate the power of social media data analysis. Secondly, this book treats behavior analysis and understanding as important for a variety of applications, including inspiring behavior from discussion platforms, determining user choices, detecting following patterns, crowd behavior modeling for emergency evacuation, tracking community structure, etc. Third, fraud and anomaly detection have been well tackled based on social media analysis. This has is illustrated in this book by identifying anomalous nodes in a network, chasing undetected fraud processes, discovering hidden knowledge, detecting clickbait, etc. With this wide coverage, the book forms a good source for practitioners and researchers, including instructors and students.

Wired/Wireless Internet Communications Springer Nature

Essential for students, science and medical graduates who want to understand the basic science of Positron Emission Tomography (PET), this book describes the physics, chemistry, technology and overview of the clinical uses behind the science of PET and the imaging techniques it uses. In recent years, PET has moved from high-end research imaging tool used by the highly specialized to an essential component of clinical evaluation in the clinic, especially in cancer management. Previously being the realm of scientists, this book explains PET instrumentation, radiochemistry, PET data acquisition and image formation, integration of structural and functional images, radiation dosimetry and protection, and applications in dedicated areas such as drug development, oncology, and gene expression imaging. The technologist, the science, engineering or chemistry graduate seeking further detailed information about PET, or the medical advanced trainee wishing to gain insight into the basic science of PET will find this book invaluable. This book is primarily repackaged content from the Basic Science section of the 'big' Valk book on PET. It contains new, completely revised and unchanged chapters covering the "basic sciences" section of the main book - total 18 chapters: 2 new (chapters 1, 16) 8 completely revised (chapters 4, 5, 8, 13, 14, 15, 17, 18) 3 minor corrections (chapters 2, 6, 11) 5 unchanged (chapters 3, 7, 9, 10, 12)

Telecommunication Networks Frontiers Media SA

The papers in this proceeding discuss current and future trends in wearable communications and personal health management through the use of wireless body area networks (WBAN). The authors posit new technologies that can provide trustworthy communications mechanisms from the user to medical health databases. The authors discuss not only on-body devices, but also technologies providing information in-body. Also discussed are dependable communications combined with accurate localization and behavior analysis, which will benefit WBAN technology and make the healthcare processes more effective. The papers were presented at the 13th EAI International Conference on Body Area Networks (BODYNETS 2018), Oulu, Finland, 02-03 October 2018.