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Superconducting Devices & Materials IGI Global

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.

Handbook of Research on

Embedded Systems Design I E E 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.

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

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.

Wired/Wireless Internet Communications Alborear (OPC) Pvt. Ltd.

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)
Scientific and Engineering Studies: Studies in acoustic signal processing Frontiers Media SA Vols. 34- include section: Waves and electrons.
Energy Research Abstracts Springer Science & Business Media
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.

Proceedings of the 13th
Space Photovoltaic
Research and
Technology Conference
(SPRAT 13) 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.

Energy: a Continuing
Bibliography with Indexes
John Wiley & Sons

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. Internet of Things World Scientific

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. Energy Storage and Management for Electric Vehicles Academic Press C-RAN and virtualized Small Cell technology poses several major research challenges. These include dynamic resource allocation, self-configuration in the baseband pool, high latency in data transfer between radio unit and baseband unit, the cost of data delivery, high volume of data in the network, software networking aspects, potential energy savings, security concerns, privacy of user ' s personal data at a remote place, limitations of virtualized environment, etc. This book provides deeper insights into the next generation RAN architecture and surveys the coexistence of SDN, C-RAN and Small Cells solutions proposed in the

literature at different levels.

5G Radio Access Networks Springer Nature

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.

Proceedings of the IEEE. Springer Nature

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.

Applying Software Metrics
Springer

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.

The 13th Convention of Electrical & Electronics Engineers in Israel, Tel Aviv, 22-24 March 1983
CRC Press

The scope of ECCE 2021 includes all technical aspects of research,

design, manufacturing, devices, components, circuits and systems related to energy conversion, industrial applications and power electronics

Physics Briefs IOS Press

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.

Communicating in Risk, Crisis, and High Stress Situations: Evidence-Based Strategies and Practice Frontiers Media SA

This book outlines the background and overall vision for the Internet of Things (IoT) and Machine-to-Machine (M2M) communications and services, including major standards. Key technologies are described, and include everything from physical

instrumentation of devices to the cloud infrastructures used to collect data. Also included is how to derive information and knowledge, and how to integrate it into enterprise processes, as well as system architectures and regulatory requirements. Real-world service use case studies provide the hands-on knowledge needed to successfully develop and implement M2M and IoT technologies sustainably and profitably. Finally, the future vision for M2M technologies is described, including prospective changes in relevant standards. This book is written by

experts in the technology and business aspects of Machine-to-Machine and Internet of Things, and who have experience in implementing solutions.

- Standards included: ETSI M2M, IEEE 802.15.4, 3GPP (GPRS, 3G, 4G), Bluetooth Low Energy/Smart, IETF 6LoWPAN, IETF CoAP, IETF RPL, Power Line Communication, Open Geospatial Consortium (OGC) Sensor Web Enablement (SWE), ZigBee, 802.11, Broadband Forum TR-069, Open Mobile Alliance (OMA) Device Management (DM), ISA100.11a, WirelessHART, M-BUS, Wireless M-BUS, KNX, RFID, Object

Management Group (OMG) Business Process Modelling Notation (BPMN) - Key technologies for M2M and IoT covered:

Embedded systems hardware and software, devices and gateways, capillary and M2M area networks, local and wide area networking, M2M Service Enablement, IoT data management and data warehousing, data analytics and big data, complex event processing and stream analytics, knowledge discovery and management, business process and enterprise integration, Software as a Service and cloud computing - Combines both technical explanations together

with design features of M2M/IoT and use cases. Together, these descriptions will assist you to develop solutions that will work in the real world - Detailed description of the network architectures and technologies that form the basis of M2M and IoT - Clear guidelines and examples of M2M and IoT use cases from real-world implementations such as Smart Grid, Smart Buildings, Smart Cities, Participatory Sensing, and Industrial Automation - A description of the vision for M2M and its evolution towards IoT

2021 IEEE Energy Conversion Congress and Exposition (ECCE)

John Wiley & Sons

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.

Telecommunication Networks Frontiers Media SA

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 Technical Information Output of the Langley Research Center
CRC Press

These proceedings represent the work of researchers participating in the 13th International Conference on Cyber Warfare and Security (ICCWS 2018) which is being hosted this year by the National Defense University in Washington DC, USA on 8-9 March 2018.

Positron Emission Tomography Information Gatekeepers Inc

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.

IEEE 100 Springer
COMMUNICATING IN
RISK, CRISIS, AND HIGH
STRESS SITUATIONS
LEARN THE UNIFYING
PRINCIPLES BEHIND
RISK, CRISIS, AND HIGH
STRESS
COMMUNICATION WITH
THIS STATE-OF-THE-
ART REFERENCE

WRITTEN BY A MAJOR
LEADER IN THE FIELD
Communicating in Risk,
Crisis, and High Stress
Situations: Evidence-Based
Strategies and Practice is
about communicating with
people in the most
challenging circumstances:
high stress situations
characterized by high risks
and high stakes. The ability
to communicate effectively
in a high stress situation is
an essential communication
competency for managers,
engineers, scientists, and
professionals in every field
who can be thrust into
demanding situations
complicated by stress.
Whether you are
confronting an external
crisis, an internal
emergency, or leading
organizational change, this
book was written for you.
Communicating in Risk,
Crisis, and High Stress
Situations brings together
in one resource proven
scientific research with
practical, hands-on

guidance from a world leader in the field. The book covers such critical topics as trust, stakeholder engagement, misinformation, messaging, and audience perceptions in the context of stress. This book is uniquely readable, thorough, and useful, thanks to features that include: Evidence-based theories and concepts that underlie and guide practice Tools and guidelines for practical and effective planning and application Experience-based advice for facing challenges posed by mainstream and social media Provocative case studies that bring home the key principles and strategies Illuminating case diaries that use the author ' s breadth and depth of experience to create extraordinary learning opportunities The book is a necessity for managers, engineers, scientists, and others who must communicate difficult

technical concepts to a concerned public. It also belongs on the bookshelves of leaders and communicators in public and private sector organizations looking for a one-stop reference and evidence-based practical guide for communicating effectively in emotionally charged situations. Written by a highly successful academic, consultant, and trainer, the book is also designed as a resource for training and education.