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*2014 Ieee Base Paper
On Cloud Computing*

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CHERRY DOYLE

Wide Bandgap Based Devices IGI Global
The book covers current developments
in the field of expert applications and

security, which employ advances of
next-generation communication and
computational technology to shape real-
world applications. It gathers selected
research papers presented at the
ICETEAS 2018 conference, which was
held at Jaipur Engineering College and

Research Centre, Jaipur, India, on February 17–18, 2018. Key topics covered include expert applications and artificial intelligence; information and application security; advanced computing; multimedia applications in forensics, security and intelligence; and advances in web technologies: implementation and security issues.

ICOPE 2020 Springer

This book introduces and analyses the latest maximum power point tracking (MPPT) techniques, which can effectively reduce the cost of power generated from photovoltaic energy systems. It also presents a detailed description, analysis, and comparison of various MPPT techniques applied to stand-alone systems and those interfaced with electric utilities, examining their

performance under normal and abnormal operating conditions. These techniques, which and can be conventional or smart, are a current hot topic, and this book is a valuable reference resource for academic researchers and industry professionals who are interested in exploring and implementing advanced MPPT for photovoltaic systems. It is also useful for graduate students who are looking to expand their knowledge of MPPT techniques.

Smart Energy Grid Design for Island Countries Springer

In recent years, Big Data has become a new ubiquitous term Big Data is transforming science, engineering, medicine, healthcare, finance, business, and ultimately society itself The IEEE

International Conference on Big Data 2014 (IEEE BigData 2014) provides a leading forum for disseminating the latest research in Big Data Research, Development, and Applications We solicit high quality original research papers (including significant work in progress) in any aspect of Big Data with emphasis on 5Vs (Volume, Velocity, Variety, Value and Veracity) big data science and foundations, big data infrastructure, big data management, big data searching and mining, big data privacy security, and big data applications

Third International Conference, SLSP 2015, Budapest, Hungary, November 24-26, 2015, Proceedings IGI Global
Mobile technologies have become a staple in society for their accessibility

and diverse range of applications that are continually growing and advancing. Users are increasingly using these devices for activities beyond simple communication including gaming and e-commerce and to access confidential information including banking accounts and medical records. While mobile devices are being so widely used and accepted in daily life, and subsequently housing more and more personal data, it is evident that the security of these devices is paramount. As mobile applications now create easy access to personal information, they can incorporate location tracking services, and data collection can happen discreetly behind the scenes. Hence, there needs to be more security and privacy measures enacted to ensure that

mobile technologies can be used safely. Advancements in trust and privacy, defensive strategies, and steps for securing the device are important foci as mobile technologies are highly popular and rapidly developing. The Research Anthology on Securing Mobile Technologies and Applications discusses the strategies, methods, and technologies being employed for security amongst mobile devices and applications. This comprehensive book explores the security support that needs to be required on mobile devices to avoid application damage, hacking, security breaches and attacks, or unauthorized accesses to personal data. The chapters cover the latest technologies that are being used such as cryptography, verification systems,

security policies and contracts, and general network security procedures along with a look into cybercrime and forensics. This book is essential for software engineers, app developers, computer scientists, security and IT professionals, practitioners, stakeholders, researchers, academicians, and students interested in how mobile technologies and applications are implementing security protocols and tactics amongst devices. *The Internet of Things for Smart Urban Ecosystems* Springer Nature This book describes power management integrated circuits (PMIC), for power converters and voltage regulators necessary for energy efficient and small form factor systems. The authors discuss state-of-the-art PMICs not only for

battery powered wearable devices, but also energy harvesting-based devices. The circuits presented support voltage scaling to reduce the overall average power consumption of a wearable device, resulting in longer device operating time. The discussion includes many designs, control techniques and approaches to distribute efficiently the power among different blocks in the device. • Demonstrates for readers how to innovate in designing power management integrated circuits (PMIC) suitable for wearable devices, powered by either battery or harvesting energy; • Introduces a dual outputs switched capacitor, using a single voltage regulator to minimize the area overhead and discusses the effect of having more than two outputs on the area and power

efficiency; • Introduces a novel clock-less digital LDO regulator that eliminates the use of the clocked comparator and serial shift register in the conventional design; • Presents experimental results of energy harvesting-based power management units (PMU), using different combinations of power converters and voltage regulators, providing a guide for designers to select the appropriate option based on device requirements. Concepts, Methodologies, Tools, and Applications Morgan & Claypool Publishers
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.

Concepts, Technologies and Frameworks for the IoV IGI Global

This book presents an overview of the latest smart transportation systems, IoV connectivity frameworks, issues of security and safety in VANETs, future developments in the IoV, technical solutions to address key challenges, and other related topics. A connected vehicle is a vehicle equipped with Internet access and wireless LAN, which allows the sharing of data through various devices, inside as well as outside the vehicle. The ad-hoc network of such vehicles, often referred to as VANET or the Internet of vehicles (IoV), is an

application of IoT technology, and may be regarded as an integration of three types of networks: inter-vehicle, intra-vehicle, and vehicular mobile networks. VANET involves several varieties of vehicle connectivity mechanisms, including vehicle-to-infrastructure (V2I), vehicle-to-vehicle (V2V), vehicle-to-cloud (V2C), and vehicle-to-everything (V2X). According to one survey, it is expected that there will be approximately 380 million connected cars on the roads by 2020. IoV is an important aspect of the new vision for smart transportation. The book is divided into three parts: examining the evolution of IoV (basic concepts, principles, technologies, and architectures), connectivity of vehicles in the IoT (protocols, frameworks, and methodologies), connected vehicle

environments and advanced topics in VANETs (security and safety issues, autonomous operations, machine learning, sensor technology, and AI). By providing scientific contributions and workable suggestions from researchers and practitioners in the areas of IoT, IoV, and security, this valuable reference aims to extend the body of existing knowledge.

2014 IEEE International Solid-State Circuits Conference (ISSCC 2014)

Springer Nature

This book comprises select peer-reviewed papers from the International Conference on Emerging Trends in Electromechanical Technologies & Management (TEMT) 2019. The focus is on current research in interdisciplinary areas of mechanical, electrical,

electronics and information technologies, and their management from design to market. The book covers a wide range of topics such as computer integrated manufacturing, additive manufacturing, materials science and engineering, simulation and modelling, finite element analysis, operations and supply chain management, decision sciences, business analytics, project management, and sustainable freight transportation. The book will be of interest to researchers and practitioners of various disciplines, in particular mechanical and industrial engineering.

Statistical Language and Speech Processing Springer Nature

With the explosive growth of mobile computing and Internet of Things (IoT) applications, as exemplified by AR/VR,

smart city, and video/audio surveillance, billions of mobile and IoT devices are being connected to the Internet, generating zillions of bytes of data at the network edge. Driven by this trend, there is an urgent need to push the frontiers of artificial intelligence (AI) to the network edge to fully unleash the potential of IoT big data. Indeed, the marriage of edge computing and AI has resulted in innovative solutions, namely edge intelligence or edge AI.

Nevertheless, research and practice on this emerging inter-disciplinary field is still in its infancy stage. To facilitate the dissemination of the recent advances in edge intelligence in both academia and industry, this book conducts a comprehensive and detailed survey of the recent research efforts and also

showcases the authors' own research progress on edge intelligence. Specifically, the book first reviews the background and present motivation for AI running at the network edge. Next, it provides an overview of the overarching architectures, frameworks, and emerging key technologies for deep learning models toward training/inference at the network edge. To illustrate the research problems for edge intelligence, the book also showcases four of the authors' own research projects on edge intelligence, ranging from rigorous theoretical analysis to studies based on realistic implementation. Finally, it discusses the applications, marketplace, and future research opportunities of edge intelligence. This emerging

interdisciplinary field offers many open problems and yet also tremendous opportunities, and this book only touches the tip of iceberg. Hopefully, this book will elicit escalating attention, stimulate fruitful discussions, and open new directions on edge intelligence.

**8th International Conference,
WiSATS 2016, Cardiff, UK,
September 19-20, 2016,**

Proceedings John Wiley & Sons

With the growing popularity of wireless networks in recent years, the need to increase network capacity and efficiency has become more prominent in society. This has led to the development and implementation of heterogeneous networks. Resource Allocation in Next-Generation Broadband Wireless Access Networks is a comprehensive reference

source for the latest scholarly research on upcoming 5G technologies for next generation mobile networks, examining the various features, solutions, and challenges associated with such advances. Highlighting relevant coverage across topics such as energy efficiency, user support, and adaptive multimedia services, this book is ideally designed for academics, professionals, graduate students, and professionals interested in novel research for wireless innovations.

Computer Vision and Recognition Systems IGI Global

Machine Vision Inspection Systems (MVIS) is a multidisciplinary research field that emphasizes image processing, machine vision and, pattern recognition for industrial applications. Inspection

techniques are generally used in destructive and non-destructive evaluation industry. Now a day's the current research on machine inspection gained more popularity among various researchers, because the manual assessment of the inspection may fail and turn into false assessment due to a large number of examining while inspection process. This volume 2 covers machine learning-based approaches in MVIS applications and it can be employed to a wide diversity of problems particularly in Non-Destructive testing (NDT), presence/absence detection, defect/fault detection (weld, textile, tiles, wood, etc.), automated vision test & measurement, pattern matching, optical character recognition & verification (OCR/OCV), natural

language processing, medical diagnosis, etc. This edited book is designed to address various aspects of recent methodologies, concepts, and research plan out to the readers for giving more depth insights for perusing research on machine vision using machine learning-based approaches.

Emerging Trends in Expert Applications and Security Academic Press

The recent explosion of digital media, online networking, and e-commerce has generated great new opportunities for those Internet-savvy individuals who see potential in new technologies and can turn those possibilities into reality. It is vital for such forward-thinking innovators to stay abreast of all the latest technologies. Web-Based Services:

Concepts, Methodologies, Tools, and Applications provides readers with comprehensive coverage of some of the latest tools and technologies in the digital industry. The chapters in this multi-volume book describe a diverse range of applications and methodologies made possible in a world connected by the global network, providing researchers, computer scientists, web developers, and digital experts with the latest knowledge and developments in Internet technologies.

Principle, Paradigm and Performance Springer

This book constitutes the proceedings of the 8th International Conference on Wireless and Satellite Services, WiSATS 2016, held in Cardiff, UK, in September 2016. The conference was formerly

known as the International Conference on Personal Satellite Services (PSATS) mainly covering topics in the satellite domain. As the scope of the conference widened to include wireless systems, the conference was renamed WiSATS. The 22 revised papers were selected from 32 submissions and cover a broad range of related state-of-the-art topics in antennas and mobile terminals, symbol precoding and network coding schemes, energy efficient strategies in satellite communication and cloud radio access networks, smart grid communication and optimization, security issues in vehicular ad-hoc networks (VANET) and delay tolerant net-works (DTN), interference mitigation in high throughput geostationary and non-geostationary satellite systems.

Next-Generation ADCs, High-Performance Power Management, and Technology Considerations for Advanced Integrated Circuits John

Wiley & Sons

The book covers a wide range of wireless communication and network technologies, and will help readers understand the role of wireless technologies in applications touching on various spheres of human life, e.g. healthcare, agriculture, building smart cities, forecasting and the manufacturing industry. The book begins by discussing advances in wireless communication, including emerging trends and research directions for network technologies. It also highlights the importance of and need to actively develop these technologies. In turn, the book addresses

different algorithms and methodologies which could be beneficial in implementing 5G Mobile Communication, Vehicular Ad-hoc Networks (VANET), Reliable Cooperative Networks, Delay Tolerant Networks (DTN) and many more contexts related to advanced communications. It then addresses the prominence of wireless communication in connection with the Internet of Things (IoT), Mobile Opportunistic Networks and Cognitive Radio Networks (CRN). Lastly, it presents the new horizons in architecture and building protocols for Li-Fi (Light-Fidelity) and Wearable Sensor Technology. *Recent Trends In Peripheral Security Systems* 2014 2nd International Conference of Information and Communication Technology (ICoICT

2014)Bandung, Indonesia, 28 - 30 May 2014Research and Development (SCOReD), 2014 IEEE Student Conference onMobile Services (MS), 2014 IEEE International Conference onSmart Energy Grid Design for Island CountriesChallenges and Opportunities This book constitutes the refereed proceedings of the Third International Conference on Statistical Language and Speech Processing, SLSP 2015, held in Budapest, Hungary, in November 2015. The 26 full papers presented together with two invited talks were carefully reviewed and selected from 71 submissions. The papers cover topics such as: anaphora and coreference resolution; authorship identification, plagiarism and spam filtering; computer-aided translation; corpora and language

resources; data mining and semantic Web; information extraction; information retrieval; knowledge representation and ontologies; lexicons and dictionaries; machine translation; multimodal technologies; natural language understanding; neural representation of speech and language; opinion mining and sentiment analysis; parsing; part-of-speech tagging; question-answering systems; semantic role labelling; speaker identification and verification; speech and language generation; speech recognition; speech synthesis; speech transcription; spelling correction; spoken dialogue systems; term extraction; text categorisation; text summarisation; and user modeling.

Research Anthology on Securing Mobile Technologies and Applications Springer

The main objective of this book is to provide a multidisciplinary overview of methodological approaches, architectures, platforms, and algorithms for the realization of an Internet of Things (IoT)-based Smart Urban Ecosystem (SUE). Moreover, the book details a set of real-world applications and case studies related to specific smart infrastructures and smart cities, including structural health monitoring, smart urban drainage networks, smart grids, power efficiency, healthcare, city security, and emergency management. A Smart Urban Ecosystem (SUE) is a people-centric system of systems that involves smart city environments, applications, and infrastructures. SUEs require the close integration of cyber and physical components for monitoring,

understanding and controlling the urban environment. In this context, the Internet of Things (IoT) offers a valuable enabling technology, as it bridges the gap between physical things and software components, and empowers cooperation between distributed, pervasive, and heterogeneous entities.

Modern Maximum Power Point Tracking Techniques for Photovoltaic Energy Systems

Springer Nature

This book covers selected topics and methods for peripheral security, which are gaining attention nowadays. The book discusses the security arrangement and methods for monitoring the inside/outside entry of peripheral areas that need to be secured. It relates to a periphery, often portable device (as well

as the methods employed, and systems including such a peripheral device and a host central command device with which the local geographical command device communicates), enabling one or more security operations performed by the peripheral device. It also covers the security scenario of snow-prone areas in a remote location. It also elaborates how we can secure the person and devices in extremely cold conditions and rescue them. This book helps the researchers, academicians, and industry persons working in security areas to protect unauthentic entry in large scale areas that may be defense camps or civilian applications like large-sized bungalows, institutes, and organizations of national importance. The experimental results are in close conformance to the

proposed methodologies.

**Advanced Human-Robot
Collaboration in Manufacturing** IGI
Global

Handling and archiving data should be done in a highly professional and quality-controlled manner. For academic and research libraries, it is required to know how to document data and support traceability, as well as to make it reusable and productive. However, these institutions have different requirements relating to the archiving and reusability of data. Therefore, a comprehensive source of information is required to understand data access and management within these organizations. *Research Data Access and Management in Modern Libraries* is a critical scholarly resource that delves into innovative data

management strategies and strategy implementation in library settings and provides best practices to stakeholders using the latest tools and technology. It further explores concepts such as research data management, data access, data preservation, building document and data institutional repositories, applications of Web 2.0 tools, mobile technology applications in data access, and conducting information literacy programs. This book is ideal for librarians, information specialists, research scholars, students, IT managers, computer scientists, policymakers, educators, and academic administrators.

Design, Fabrication and Applications
Springer Nature
2014 2nd International Conference of

Information and Communication
Technology (ICoICT 2014)Bandung,
Indonesia, 28 - 30 May 2014Research
and Development (SCORED), 2014 IEEE
Student Conference onMobile Services
(MS), 2014 IEEE International Conference
onSmart Energy Grid Design for Island
CountriesChallenges and
OpportunitiesSpringer

Machine Vision Inspection Systems,
Machine Learning-Based Approaches IGI
Global

The internet of things (IoT) has emerged
to address the need for connectivity and
seamless integration with other devices
as well as big data platforms for
analytics. However, there are challenges
that IoT-based applications face
including design and implementation
issues; connectivity problems; data

gathering, storing, and analyzing in
cloud-based environments; and IoT
security and privacy issues. Emerging
Trends in IoT and Integration with Data
Science, Cloud Computing, and Big Data
Analytics is a critical reference source
that provides theoretical frameworks
and research findings on IoT and big
data integration. Highlighting topics that
include wearable sensors, machine
learning, machine intelligence, and
mobile computing, this book serves
professionals who want to improve their
understanding of the strategic role of
trust at different levels of the
information and knowledge society. It is
therefore of most value to data
scientists, computer scientists, data
analysts, IT specialists, academicians,
professionals, researchers, and students

working in the field of information and knowledge management in various disciplines that include but are not limited to information and communication sciences, administrative sciences and management, education, sociology, computer science, etc.

Moreover, the book provides insights and supports executives concerned with the management of expertise, knowledge, information, and organizational development in different types of work communities and environments.