
2014 Ieee Base Paper On Cloud Computing

Machine Vision Inspection Systems, Machine Learning-Based Approaches
The Role of the Internet of Things (IoT) in Biomedical Engineering
2014 IEEE Conference on Systems, Process and Control (ICSPC)
2014 IEEE International Conference on Computational Intelligence and Computing Research
International Conference on Artificial Intelligence: Advances and Applications 2019
2014 IEEE International Conference on Mobile Services (MS)
Applied Mathematics in Engineering and Reliability
Advanced Human-Robot Collaboration in Manufacturing
Advances in Artificial Intelligence-based Technologies
Advances in Visual Computing
ICOPE 2020
IEEE Standards for Local and Metropolitan Area Networks
Emerging Trends in IoT and Integration with Data Science, Cloud Computing, and Big Data Analytics
Connected Vehicles in the Internet of Things
IEEE Standard for Interconnecting Distributed Resources with Electric Power Systems
Computer Vision and Recognition Systems
Medical Biosensors for Point of Care (POC) Applications
Fundamental and Supportive Technologies for 5G Mobile Networks
Guide to the Software Engineering Body of Knowledge (Swebok(r))
Power Management for Wearable Electronic Devices
Smart Energy Grid Design for Island Countries
2014 IEEE International Conference on Big Data (Big Data)
Emerging Wireless Communication and Network Technologies
Proceedings of China SAE Congress 2021: Selected Papers
CMOS 60-GHz and E-band Power Amplifiers and Transmitters
2014 IEEE International Conference on Electro Information Technology (EIT)

Smart and Innovative Trends in Next Generation Computing Technologies
Handbook of Research on Advanced Trends in Microwave and Communication Engineering
IEEE Standard for Local and Metropolitan Area Networks
Next-Generation ADCs, High-Performance Power Management, and Technology Considerations for Advanced Integrated Circuits
2014 IEEE International Conference on Web Services (ICWS 2014)
Proceedings of the Mediterranean Conference on Information & Communication Technologies 2015
Proceedings, 2014 IEEE International Conference on Big Data
Big Data Analytics for Cyber-Physical Systems
Research Data Access and Management in Modern Libraries
Resource Allocation in Next-Generation Broadband Wireless Access Networks
Wireless and Satellite Systems
Multi-dimensional Urban Sensing Using Crowdsensing Data
Web-Based Services: Concepts, Methodologies, Tools, and Applications
2014 IEEE Eighth International Conference on Research Challenges in Information Science (RCIS 2014).

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LAILA CHOI

*Machine Vision Inspection Systems,
Machine Learning-Based Approaches*
Springer

This book focuses on the development of design techniques and methodologies for 60-GHz and E-band power amplifiers and transmitters at device, circuit and layout levels. The authors show the recent development of millimeter-wave design techniques, especially of power amplifiers

and transmitters, and presents novel design concepts, such as “power transistor layout” and “4-way parallel-series power combiner”, that can enhance the output power and efficiency of power amplifiers in a compact silicon area. Five state-of-the-art 60-GHz and E-band designs with measured results are demonstrated to prove the effectiveness of the design concepts and hands-on methodologies presented. This book serves as a valuable reference for circuit designers to develop millimeter-wave building blocks for future 5G applications.

[The Role of the Internet of Things \(IoT\) in Biomedical Engineering](#) Springer Nature

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

2014 IEEE Conference on Systems, Process and Control (ICSPC) Springer Nature

This volume presents the first part of the proceedings of the Mediterranean Conference on Information & Communication Technologies (MedICT 2015), which was held at Saidia, Morocco during 7–9 May, 2015. MedICT provides an excellent international forum to the researchers and practitioners from both academia as well as industry to meet and share cutting-edge development. The conference has also a special focus on enabling technologies for societal challenges, and seeks to address multidisciplinary challenges in Information & Communication Technologies such as health, demographic change, wellbeing, security and sustainability issues. The proceedings publish high quality papers which are closely related to the various

theories, as well as emerging and practical applications of particular interest to the ICT community. This first volume provides a compact yet broad view of recent developments in devices, technologies and processing, and covers recent research areas in the field including Microwave Devices and Printed Antennas, Advances in Optical and RF Devices and Applications, Signal Processing and Information Theory, Wireless and Optical Technologies and Techniques, Computer Vision, Optimization and Modeling in Wireless Communication Systems, Modeling, Identification and Biomedical Signal Processing, Photovoltaic Cell & Systems, RF Devices and Antennas for Wireless Applications, RFID, Ad Hoc and Networks Issues.

2014 IEEE International Conference on Computational Intelligence and Computing Research Springer

This book presents state-of-the-art research, challenges and solutions in the area of human-robot collaboration (HRC) in manufacturing. It enables readers to better understand the dynamic behaviour of manufacturing processes, and gives more insight into on-demand adaptive

control techniques for industrial robots. With increasing complexity and dynamism in today's manufacturing practice, more precise, robust and practical approaches are needed to support real-time shop-floor operations. This book presents a collection of recent developments and innovations in this area, relying on a wide range of research efforts. The book is divided into five parts. The first part presents a broad-based review of the key areas of HRC, establishing a common ground of understanding in key aspects. Subsequent chapters focus on selected areas of HRC subject to intense recent interest. The second part discusses human safety within HRC. The third, fourth and fifth parts provide in-depth views of relevant methodologies and algorithms. Discussing dynamic planning and monitoring, adaptive control and multi-modal decision making, the latter parts facilitate a better understanding of HRC in real situations. The balance between scope and depth, and theory and applications, means this book appeals to a wide readership, including academic researchers, graduate students, practicing engineers, and those within a variety of roles in manufacturing

sectors.

International Conference on Artificial Intelligence: Advances and Applications 2019 Springer Nature

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. 2014 IEEE International Conference on Mobile Services (MS) Institute of Electrical & Electronics Engineers(IEEE)
Medical Biosensors for Point of Care (POC)

Applications discusses advances in this important and emerging field which has the potential to transform patient diagnosis and care. Part 1 covers the fundamentals of medical biosensors for point-of-care applications. Chapters in part 2 go on to look at materials and fabrication of medical biosensors while the next part looks at different technologies and operational techniques. The final set of chapters provide an overview of the current applications of this technology. Traditionally medical diagnostics have been dependent on sophisticated technologies which only trained professionals were able to operate. Recent research has focused on creating point-of-care diagnostic tools. These biosensors are miniaturised, portable, and are designed to be used at the point-of-care by untrained individuals, providing real-time and remote health monitoring. Provides essential knowledge for designers and manufacturers of biosensors for point-of-care applications Provides comprehensive coverage of the fundamentals, materials, technologies, and applications of medical biosensors for point-of-care applications Includes contributions from leading

international researchers with extensive experience in developing medical biosensors Discusses advances in this important and emerging field which has the potential to transform patient diagnosis and care

Applied Mathematics in Engineering and Reliability Springer

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.

Advanced Human-Robot Collaboration in Manufacturing CRC Press

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.

Advances in Artificial Intelligence-based Technologies Springer

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.

Advances in Visual Computing Springer Nature

Annotation The general aim of the conference is to promote international collaboration in Education and Research in all fields and disciplines of engineering ICCIC will be an International Forum for those who wish to present their projects and innovations, having also the opportunity to discuss the main aspects and the latest results in the field of Education and Research The key fields of focus of the conference are not limited, but note worthy to mention the following Computational Intelligence, Computer

Vision, Image Processing, Signal Processing, Intelligent Internet modeling and Communication Systems.

ICOPE 2020 Springer Nature

This cutting-edge volume focuses on how artificial intelligence can be used to give computers the ability to imitate human sight. With contributions from researchers in diverse countries, including Thailand, Spain, Japan, Turkey, Australia, and India, the book explains the essential modules that are necessary for comprehending artificial intelligence experiences to provide machines with the power of vision. The volume also presents innovative research developments, applications, and current trends in the field. The chapters cover such topics as visual quality improvement, Parkinson's disease diagnosis, hypertensive retinopathy detection through retinal fundus, big image data processing, N-grams for image classification, medical brain images, chatbot applications, credit score improvisation, vision-based vehicle lane detection, damaged vehicle parts recognition, partial image encryption of medical images, and image synthesis. The chapter authors show different approaches

to computer vision, image processing, and frameworks for machine learning to build automated and stable applications. Deep learning is included for making immersive application-based systems, pattern recognition, and biometric systems. The book also considers efficiency and comparison at various levels of using algorithms for real-time applications, processes, and analysis.

IEEE Standards for Local and Metropolitan Area Networks Springer

This book highlights research and survey articles dedicated to big data techniques for cyber-physical system (CPS), which addresses the close interactions and feedback controls between cyber components and physical components. The book first discusses some fundamental big data problems and solutions in large scale distributed CPSs. The book then addresses the design and control challenges in multiple CPS domains such as vehicular system, smart city, smart building, and digital microfluidic biochips. This book also presents the recent advances and trends in the maritime simulation system and the flood defence system.

Emerging Trends in IoT and Integration with Data Science, Cloud Computing, and Big Data Analytics Springer Nature

Mobile wireless communication systems have affected every aspect of life. By providing seamless connectivity, these systems enable almost all the smart devices in the world to communicate with high speed throughput and extremely low latency. The next generation of cellular mobile communications, 5G, aims to support the tremendous growth of interconnected things/devices (i.e., internet of things [IoT]) using the current technologies and extending them to be used in higher frequencies to cope with the huge number of different devices. In addition, 5G will provide massive capacity, high throughput, lower end-to-end delay, green communication, cost reduction, and extended coverage area. Fundamental and Supportive Technologies for 5G Mobile Networks provides detailed research on technologies used in 5G, their benefits, practical designs, and recent challenges and focuses on future applications that could exploit 5G network benefits. The content within this publication examines cellular communication, data transmission,

and high-speed communication. It is designed for network analysts, IT specialists, industry professionals, software engineers, researchers, academicians, students, and scientists.

Connected Vehicles in the Internet of Things IGI Global

With the 4th Industrial Revolution ongoing and human societal organization being restructured into, so-called, "Society 5.0", the field of Artificial Intelligence and related technologies is growing continuously and rapidly, developing in both itself and towards applications in many other disciplines. Researchers worldwide aim at incorporating cognitive abilities into machines, such as learning and problem solving. When machines and software systems have been enhanced with Artificial Intelligence components, they become better and more efficient at performing tasks. Consequently, Artificial Intelligence stands out as a research discipline due to its worldwide pace of growth in both theoretical advances and areas of application, while achieving very high rates of success and promising major impact in science, technology and society. The book at hand aims at exposing its

readers to some of the most significant Advances in Artificial Intelligence Theory, Tools and Methodologies as well as Artificial Intelligence-based Applications and Services. The book consists of an editorial note and an additional eleven (11) chapters, all invited from authors who work on the corresponding chapter theme and are recognized for their significant research contributions. In more detail, the chapters in the book are organized into three parts, namely (i) Advances in Artificial Intelligence Tools and Methodologies, (ii) Advances in Artificial Intelligence-based Applications and Services, and (iii) Theoretical Advances in Computation and System Modeling. This research book is directed towards professors, researchers, scientists, engineers and students in Artificial Intelligence-related disciplines. It is also directed towards readers who come from other disciplines and are interested in becoming versed in some of the most recent Artificial Intelligence-based technologies. An extensive list of bibliographic references at the end of each chapter guides the readers to probe further into the application areas of

interest to them.

IEEE Standard for Interconnecting Distributed Resources with Electric Power Systems European Alliance for Innovation
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.

Computer Vision and Recognition Systems
Springer

The two volume set LNCS 10072 and LNCS 10073 constitutes the refereed proceedings of the 12th International Symposium on Visual Computing, ISVC 2016, held in Las Vegas, NV, USA in December 2016. The 102 revised full papers and 34 poster papers presented in this book were carefully reviewed and selected from 220 submissions. The papers are organized in topical sections: Part I (LNCS 10072) comprises computational bioimaging; computer graphics; motion and tracking; segmentation; pattern recognition; visualization; 3D mapping; modeling and surface reconstruction; advancing autonomy for aerial robotics; medical imaging; virtual reality; computer vision as a service; visual perception and robotic systems; and biometrics. Part II (LNCS 9475): applications; visual surveillance; computer graphics; and virtual reality.
Medical Biosensors for Point of Care (POC)

Applications IGI Global

This book is based on the 18 tutorials presented during the 28th workshop on Advances in Analog Circuit Design. Expert designers present readers with information about a variety of topics at the frontier of analog circuit design, including next-generation analog-to-digital converters, high-performance power management systems and technology considerations for advanced IC design. For anyone involved in analog circuit research and development, this book will be a valuable summary of the state-of-the-art in these areas. Provides a summary of the state-of-the-art in analog circuit design, written by experts from industry and academia; Presents material in a tutorial-based format; Includes coverage of next-generation analog-to-digital converters, high-performance power management systems, and technology considerations for advanced IC design.

Fundamental and Supportive Technologies for 5G Mobile Networks CRC Press

Wireless and ubiquitous connectivity have enabled mobile computing and Internet access on the go as a life enhancing and indispensable experience of modern life

Mobile networks has become a new services consumption and delivery platform for many industries and government organizations worldwide The 2014 IEEE International Conference on Mobile Services (MS) aims at providing an international forum that is dedicated to explore different aspects of mobile services, from business, management to computing systems, algorithms, and applications and to promote technological innovations in research and development of mobile services, including, but not limited to, wireless networks, sensor networks, mobile computing, mobile enterprise, mobile eCommerce, collaborative computing and social networks As an integral part of the Federated Conferences in Service Computing, sponsored by IEEE Computer Society since 2003, research papers accepted by IEEE MS 2014 will be presented to a broader audience

Guide to the Software Engineering Body of Knowledge (Swebok(r))

Woodhead Publishing

We are delighted to introduce the Proceedings of the Second International Conference on Progressive Education

(ICOPE) 2020 hosted by the Faculty of Teacher Training and Education, Universitas Lampung, Indonesia, in the heart of the city Bandar Lampung on 16 and 17 October 2020. Due to the COVID-19 pandemic, we took a model of an online organised event via Zoom. The theme of the 2nd ICOPE 2020 was “Exploring the New Era of Education”, with various related topics including Science Education, Technology and Learning Innovation, Social and Humanities Education, Education Management, Early Childhood Education, Primary Education, Teacher Professional Development, Curriculum and Instructions, Assessment and Evaluation, and Environmental Education. This conference has invited academics, researchers, teachers, practitioners, and students worldwide to participate and exchange ideas, experiences, and research findings in the field of education to make a better, more efficient, and impactful teaching and learning. This conference was attended by 190 participants and 160 presenters. Four keynote papers were delivered at the conference; the first two papers were delivered by Prof Emeritus Stephen D.

Krashen from the University of Southern California, the USA and Prof Dr Bujang Rahman, M.Si. from Universitas Lampung, Indonesia. The second two papers were presented by Prof Dr Habil Andrea Bencsik from the University of Pannonia, Hungary and Dr Hisham bin Dzakiria from Universiti Utara Malaysia, Malaysia. In addition, a total of 160 papers were also presented by registered presenters in the parallel sessions of the conference. The conference represents the efforts of many individuals. Coordination with the steering chairs was essential for the success of the conference. We sincerely appreciate their constant support and guidance. We would also like to express our gratitude to the organising committee members for putting much effort into ensuring the success of the day-to-day operation of the conference and the reviewers for their hard work in reviewing submissions. We also thank the four invited keynote speakers for sharing their insights. Finally, the conference would not be possible without the excellent papers contributed by authors. We thank all authors for their contributions and participation in the 2nd ICOPE 2020. We strongly believe that the 2nd ICOPE

2020 has provided a good forum for academics, researchers, teachers, practitioners, and students to address all aspects of education-related issues in the current educational situation. We feel honoured to serve the best recent scientific knowledge and development in education and hope that these proceedings will furnish scholars from all over the world with an excellent reference book. We also expect that the future ICOPE conference will be more successful and stimulating. Finally, it was with great pleasure that we had the opportunity to host such a conference.

Power Management for Wearable Electronic Devices IGI Global

Chaocan Xiang is an Associate Professor at the College of Computer Science, Chongqing University, China. He received his bachelor’s degree and Ph.D. from Nanjing Institute of Communication Engineering, China, in 2009 and 2014, respectively. He subsequently studied at the University of Michigan-Ann Arbor in 2017 (supervised by Prof. Kang G. Shin, IEEE Life Fellow, ACM Fellow). His research interests mainly include UAVs/vehicle-based crowdsensing, urban computing,

Internet of Things, Artificial Intelligence, and big data. He has published more than 50 papers, including over 20 in leading venues such as IEEE Transactions on Mobile Computing, IEEE Transactions on Parallel and Distributed Systems, IEEE INFOCOM, and ACM Ubicomp. He has received a best paper award and a best poster award at two international conferences. Panlong Yang is a full Professor at the University of Science and Technology of China. He has been supported by the NSF Jiangsu through a Distinguished Young Scholarship and was honored as a CCF Distinguished Lecturer in 2015. He has published over 150 papers, including 40 in CCF Class A. Since 2012, he has supervised 14 master's and Ph.D. candidates, including two excellent dissertation winners in Jiangsu Province

and the PLA education system. He has been supported by the National Key Development Project and NSFC projects. He has nominated by ACM MobiCom 2009 for the best demo honored mention awards, and won best paper awards at the IEEE MSN and MASS. He has served as general chair of BigCom and TPC chair of IEEE MSN. In addition, he has served as a TPC member of INFOCOM (CCF Class A) and an associate editor of the Journal of Communication of China. He is a Senior Member of the IEEE (2019). Fu Xiao received his Ph.D. in Computer Science and Technology from the Nanjing University of Science and Technology, Nanjing, China, in 2007. He is currently a Professor and Dean of the School of Computer, Nanjing University of Posts and Telecommunications. He has authored

more than 60 papers in respected conference proceedings and journals, including IEEE INFOCOM, ACM Mobihoc, IEEE JASC, IEEE/ACM ToN, IEEE TPDS, IEEE TMC, etc. His main research interest is in the Internet of Things. He is a member of the IEEE Computer Society and the Association for Computing Machinery. Xiaochen Fan received his B.S. degree in Computer Science from Beijing Institute of Technology, Beijing, China, in 2013, and his Ph.D. from the University of Technology Sydney, NSW, Australia, in 2021. His research interests include mobile/pervasive computing, deep learning, and Internet of Things (IoT). He has published over 25 peer-reviewed papers in high-quality journals and IEEE/ACM international conference proceedings.