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Optical and Wireless Technologies Vijay Janyani 2018-02-12 This book presents selected papers from 1st International Conference on Optical and Wireless Technologies, providing insights into the analytical, experimental, and developmental aspects of systems, techniques, and devices in these spheres. It explores the combined use of various optical and wireless technologies in next-generation networking applications, and discusses the latest developments in applications such as photonics, high-speed communication systems and networks, visible light communication, nanophotonics, and wireless and multiple-input-multiple-output (MIMO) systems. The book will serve as a valuable reference resource for academics and researchers across the globe.
Data Management, Analytics and Innovation Neha Sharma 2020-08-18 This book presents the latest findings in the areas of data management and smart computing, big data management, artificial intelligence and data analytics, along with advances in network technologies. Gathering peer-reviewed research papers presented at the Fourth International Conference on Data Management, Analytics and Innovation (ICDMAI 2020), held on 17–19 January 2020 at the United Services Institute (USI), New Delhi, India, it addresses cutting-edge topics and discusses challenges and solutions for future development. Featuring original, unpublished contributions by respected experts from around the globe, the book is mainly intended for a professional audience of researchers and practitioners in academia and industry.
Android Essentials Chris Haseman 2009-04-24 Android Essentials is a no–frills, no–nonsense, code–centric run through the guts of application development on Google's Mobile OS. This book uses the development of a sample application to work through topics, focusing on giving developers the essential tools and examples required to make viable commercial applications work. Covering the entirety of the Android catalog in less than 150 pages is simply impossible. Instead, this book focuses on just four main topics: the application life cycle and OS integration, user interface, location–based services, and networking. Thorough, complete, and useful work on the nuts and bolts of application development in Android Example driven and practically minded

A tool for hobbyists and professionals who want to create production–quality applications

Malware Detection Mihai Christodorescu 2007-03-06 This book captures the state of the art research in the area of malicious code detection, prevention and mitigation. It contains cutting-edge behavior-based techniques to analyze and detect obfuscated malware. The book analyzes current trends in malware activity online, including botnets and malicious code for profit, and it proposes effective models for detection and prevention of attacks using. Furthermore, the book introduces novel techniques for creating services that protect their own integrity and safety, plus the data they manage.

Deep Learning for Internet of Things Infrastructure Uttam Ghosh 2021-09-30 This book promotes and facilitates exchanges of research knowledge and findings across different disciplines on the design and investigation of deep learning (DL)–based data analytics of IoT (Internet of Things) infrastructures. Deep Learning for Internet of Things Infrastructure addresses emerging trends and issues on IoT systems and services across various application domains. The book investigates the challenges posed by the implementation of deep learning on IoT networking models and services. It provides fundamental theory, model, and methodology in interpreting, aggregating, processing, and analyzing data for intelligent DL-enabled IoT. The book also explores new functions and technologies to provide adaptive services and intelligent applications for different end users. FEATURES Promotes and facilitates exchanges of research knowledge and findings across different disciplines on the design and investigation of DL-based data analytics of IoT infrastructures

Addresses emerging trends and issues on IoT systems and services across various application domains Investigates the challenges posed by the implementation of deep learning on IoT networking models and services Provides fundamental theory, model, and methodology in interpreting, aggregating, processing, and analyzing data for intelligent DL-enabled IoT Explores new functions and technologies to provide adaptive services and intelligent applications for different end users Uttam Ghosh is an Assistant Professor in the Department of Electrical Engineering and Computer Science, Vanderbilt University, Nashville, Tennessee, USA. Mamoun Alazab is an Associate Professor in the College of Engineering, IT and Environment at Charles Darwin University, Australia. Ali Kashif Bashir is a Senior Lecturer/Associate Professor and Program Leader of BSc (H) Computer Forensics and Security at the Department of Computing and Mathematics, Manchester Metropolitan University, United Kingdom. Al-Sakib Khan Pathan is an Adjunct Professor of Computer Science and Engineering at the Independent University, Bangladesh.

2018 3rd International Conference for Convergence in Technology (I2CT) 2018 *5G-Enabled Internet of Things* Yulei Wu 2019-05-29 How the enabling technologies in 5G as an integral or as a part can seamlessly fuel the IoT revolution is still very challenging. This book presents the state-of-the-art solutions to the theoretical and practical challenges stemming from the integration of 5G enabling technologies into IoTs in support of a smart 5G-enabled IoT paradigm, in terms of network design, operation, management, optimization, privacy and security, and applications. In particular, the technical focus covers a comprehensive understanding

of 5G-enabled IoT architectures, converged access networks, privacy and security, and emerging applications of 5G-eabled IoT.

Advanced Machine Learning Technologies and Applications Aboul Ella Hassanien 2014-11-04 This book constitutes the refereed proceedings of the Second International Conference on Advanced Machine Learning Technologies and Applications, AMLTA 2014, held in Cairo, Egypt, in November 2014. The 49 full papers presented were carefully reviewed and selected from 101 initial submissions. The papers are organized in topical sections on machine learning in Arabic text recognition and assistive technology; recommendation systems for cloud services; machine learning in watermarking/authentication and virtual machines; features extraction and classification; rough/fuzzy sets and applications; fuzzy multi-criteria decision making; Web-based application and case-based reasoning construction; social networks and big data sets.

ICT Systems Security and Privacy Protection Sabrina De Capitani di Vimercati 2017-05-17 This book constitutes the refereed proceedings of the 32nd IFIP TC 11 International Conference on ICT Systems Security and Privacy Protection, SEC 2017, held in Rome, Italy, in May 2017. The 38 revised full papers presented were carefully reviewed and selected from 199 submissions. The papers are organized in the following topical sections: network security and cyber attacks; security and privacy in social applications and cyber attacks defense; private queries and aggregations; operating systems and firmware security; user authentication and policies; applied cryptography and voting schemes; software security and privacy; privacy; and digital signature, risk management, and code reuse attacks.

Machine Learning in Healthcare Bikesh Kumar Singh 2022 "Machine Learning in Healthcare discusses how to build various ML algorithms and how they can be applied to improve healthcare systems. It covers fundamental concepts including mathematical requisites and traditional machine-learning framework followed by advanced machine-learning methods and their applications in medical fields"--

Operating System Security Trent Jaeger 2022-05-31 Operating systems provide the fundamental mechanisms for securing computer processing. Since the 1960s, operating systems designers have explored how to build "secure" operating systems - operating systems whose mechanisms protect the system against a motivated adversary. Recently, the importance of ensuring such security has become a mainstream issue for all operating systems. In this book, we examine past research that outlines the requirements for a secure operating system and research that implements example systems that aim for such requirements. For system designs that aimed to satisfy these requirements, we see that the complexity of software systems often results in implementation challenges that we are still exploring to this day. However, if a system design does not aim for achieving the secure operating system requirements, then its security features fail to protect the system in a myriad of ways. We also study systems that have been retrofit with secure operating system features after an initial deployment. In all cases, the conflict between function on one hand and security on the other leads to difficult choices and the potential for unwise compromises. From this book, we hope that systems designers and implementors will learn the

requirements for operating systems that effectively enforce security and will better understand how to manage the balance between function and security. Table of Contents: Introduction / Access Control Fundamentals / Multics / Security in Ordinary Operating Systems / Verifiable Security Goals / Security Kernels / Securing Commercial Operating Systems / Case Study: Solaris Trusted Extensions / Case Study: Building a Secure Operating System for Linux / Secure Capability Systems / Secure Virtual Machine Systems / System Assurance

Research Anthology on Securing Mobile Technologies and Applications Management Association, Information Resources 2021-02-05 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.

2020 IEEE 8th International Conference on Computer Science and Network Technology (ICCSNT) IEEE Staff 2020-11-20 2020 IEEE 8th International Conference on Computer Science and Network Technology (ICCSNT2020) will be held during November 13 15, 2020 in Dalian, China It is the eighth forum for the presentation of new advances and research results in a wide variety of scientific areas with a common interest in improving Future Computer Science, Network Technology and Communication related techniques ICCSNT2011 (Dec 24 26, 2011), ICCSNT2012 (Dec 29 31, 2012), ICCSNT2013 (Oct 12 14, 2013), ICCSNT2015 (Dec 20 22, 2015), ICCSNT2016 (Dec 10 11, 2016), ICCSNT2017 (Oct 21 22, 2017) and ICCSNT2019 (Oct 19 20, 2019) were successfully held respectively and all the accepted more than 1700

papers from ICCSNT conferences have been included in IEEE Xplore and indexed by EI Compendex
Mobile Applications Development with Android Meikang Qiu 2016-10-14 Mobile Applications Development with Android: Technologies and Algorithms presents advanced techniques for mobile app development, and addresses recent developments in mobile technologies and wireless networks. The book covers advanced algorithms, embedded systems, novel mobile app architecture, and mobile cloud computing paradigms. Divided into three sections, the book explores three major dimensions in the current mobile app development domain. The first section describes mobile app design and development skills, including a quick start on using Java to run an Android application on a real phone. It also introduces 2D graphics and UI design, as well as multimedia in Android mobile apps. The second part of the book delves into advanced mobile app optimization, including an overview of mobile embedded systems and architecture. Data storage in Android, mobile optimization by dynamic programming, and mobile optimization by loop scheduling are also covered. The last section of the book looks at emerging technologies, including mobile cloud computing, advanced techniques using Big Data, and mobile Big Data storage. About the Authors Meikang Qiu is an Associate Professor of Computer Science at Pace University, and an adjunct professor at Columbia University. He is an IEEE/ACM Senior Member, as well as Chair of the IEEE STC (Special Technical Community) on Smart Computing. He is an Associate Editor of a dozen of journals including IEEE Transactions on Computers and IEEE Transactions on Cloud Computing. He has published 320+ peer-reviewed journal/conference papers and won 10+ Best Paper Awards. Wenyun Dai is pursuing his PhD at Pace University. His research interests include high performance computing, mobile data privacy, resource management optimization, cloud computing, and mobile networking. His paper about mobile app privacy has been published in IEEE Transactions on Computers. Keke Gai is pursuing his PhD at Pace University. He has published over 60 peer-reviewed journal or conference papers, and has received three IEEE Best Paper Awards. His research interests include cloud computing, cyber security, combinatorial optimization, business process modeling, enterprise architecture, and Internet computing. .
Mobile Web and Intelligent Information Systems Muhammad Younas 2015-08-07 This book constitutes the refereed proceedings of the 12th International Conference on Mobile Web and Intelligent Information Systems, MobiWIS 2015, held in Rome, Italy, in August 2015. The 17 full papers and 3 short papers presented were carefully reviewed and selected from 55 submissions. The papers are organized in topical sections such as mobile services and applications; usability and visualization; mobile networks and applications; mobile data services; smart phones and mobile commerce applications.
2021 International Conference on Communications, Information System and Computer Engineering (CISCE) IEEE Staff 2021-05-14 With the continuous innovation of the Internet, Communications, Information System and Computer Engineering has been widely used in various fields In order to provide a platform for experts and scholars from all over the world to share research results in the field of communication and computer engineering, CISCE 2021 will focus on discussing the current hot

issues, share research results, promote the development and progress of related research and application, promote the development of disciplines and promote personnel training We sincerely welcome all relevant experts in related fields to attend the meeting

2019 7th International Conference on Smart Computing and Communications (ICSCC) IEEE Staff 2019-06-28 The conference will bring together experts from the Smart computing and Communication systems community to discuss the timely issue of smart computing and low energy system design This will provide a forum for sharing insights, experiences and interaction on various aspects of evolving technologies and patterns related to Computer Science, Information Technology and Electronics The conference provides a platform for not only to the researchers from Asia but also from other continents across the globe, making this conference more international and attractive for participants

5G Radio Access Network Architecture Sasha Sirotkin 2020-11-13 Written by an industry insider with state of the art research at their fingertips, this book describes the Radio Access Network (RAN) architecture, starting with currently deployed 4G, followed by the description of 5G requirements and why re-thinking of the RAN architecture is needed to support these. Based on these considerations, it explains how 5G network architecture, which is currently being defined, is likely to evolve. The aim is not merely to cover relevant standards and technologies as a purely academic exercise (although a significant part of the book will be dedicated to these), but to augment these by practical deployment, to illustrate why the RAN architecture is changing and where it

is going. With 5G deployments on the horizon, there is a desire within companies to both re-think the RAN architecture and to change the proprietary nature of the RAN. Correspondingly, there is increased interest in academia, standards bodies and commercial entities involved in the area.

2017 International Conference on Innovative Mechanisms for Industry Applications (ICIMIA) IEEE Staff 2017-02-21 ICIMIA 2017 will provide an outstanding international forum for sharing knowledge and results in all fields of engineering and Technology ICIMIA provides quality key experts who provide an opportunity in bringing up innovative ideas Recent updates in the in the field of technology will be a platform for the upcoming researchers The conference will be Complete, Concise, Clear and Cohesive in terms of research related to Innovative Mechanisms for Industrial needs

Advances in Core Computer Science-Based Technologies George A. Tsihrintzis 2020-06-18 This book introduces readers to some of the most significant advances in core computer science-based technologies. At the dawn of the 4th Industrial Revolution, the field of computer science-based technologies is growing continuously and rapidly, and is developing both in itself and in terms of its applications in many other disciplines. Written by leading experts and consisting of 18 chapters, the book is divided into seven parts: (1) Computer Science-based Technologies in Education, (2) Computer Science-based Technologies in Risk Assessment and Readiness, (3) Computer Science-based Technologies in IoT, Blockchains and Electronic Money, (4) Computer Science-based Technologies in Mobile Computing, (5) Computer Science-based Technologies in Scheduling and Transportation, (6)

Computer Science-based Technologies in Medicine and Biology, and (7) Theoretical Advances in Computer Science with Significant Potential Applications in Technology. Featuring an extensive list of bibliographic references at the end of each chapter to help readers probe further into the application areas of interest to them, this book is intended for professors, researchers, scientists, engineers and students in computer science-related disciplines. It is also useful for those from other disciplines wanting to become well versed in some of the latest computer science-based technologies.

2016 International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) IEEE Staff 2016-03-03 The aim of the conference is to bring Students, Engineers, Researchers and Scientists to single platform for share their knowledge and ideas in the recent trends in the field of Engineering, Science and Technology

2019 International Conference on Computer and Information Sciences (ICCIS) 2019

Safety, Security, and Reliability of Robotic Systems Brij B. Gupta 2020-12-30 With the increasing demand of robots for industrial and domestic use, it becomes indispensable to ensure their safety, security, and reliability. Safety, Security and Reliability of Robotic Systems: Algorithms, Applications, and Technologies provides a broad and comprehensive coverage of the evolution of robotic systems, as well as industrial statistics and future forecasts. First, it analyzes the safety-related parameters of these systems. Then, it covers security attacks and related countermeasures, and how to establish reliability in these systems. The later sections of the book then discuss various applications of these systems in modern industrial and domestic settings. By the end of this book, you will be familiarized with the theoretical frameworks, algorithms, applications, technologies, and empirical research findings on the safety, security, and reliability of robotic systems, while the book's modular structure and comprehensive material will keep you interested and involved throughout. This book is an essential resource for students, professionals, and entrepreneurs who wish to understand the safe, secure, and reliable use of robotics in real-world applications. It is edited by two specialists in the field, with chapter contributions from an array of experts on robotics systems and applications.

Visible Light Communication Based Indoor Localization Mohsen Kavehrad 2019-11-11 This book demonstrates the research on VLC based indoor localization in four aspects: first, it constructs the concept and model of the system; second, positioning algorithms, as the main issue in indoor localization, are detailed; third, many approaches are proposed to further improve the positioning performance; fourth, challenges will be detailed. Impulse response with multipath reflections are analyzed. Orthogonal frequency division multiplexing (OFDM) is proposed, and positioning performance is largely improved compared to On-off-keying (OOK) modulation. The readers will get a broad view of VLC based indoor localization from the background to the future challenges.

Advances in Computing and Network Communications Sabu M. Thampi 2021-06-12 This book constitutes the thoroughly refereed post-conference proceedings of the 4th International Conference on Computing and Network Communications (CoCoNet'20), October 14—17, 2020, Chennai, India. The papers presented were carefully

reviewed and selected from several initial submissions. The papers are organized in topical sections on Signal, Image and Speech Processing, Wireless and Mobile Communication, Internet of Things, Cloud and Edge Computing, Distributed Systems, Machine Intelligence, Data Analytics, Cybersecurity, Artificial Intelligence and Cognitive Computing and Circuits and Systems. The book is directed to the researchers and scientists engaged in various fields of computing and network communication domains.

Proceedings of the 7th International Conference on Kansei Engineering and Emotion Research 2018 Anitawati Mohd Lokman 2018-03-13 The proceedings gather a selection of refereed papers presented at the 7th International Conference on Kansei Engineering and Emotion Research 2018 (KEER 2018), which was held in Kuching, Malaysia from 19 to 22 March 2018. The contributions address the latest advances in and innovative applications of Kansei Engineering and Emotion Research. The subjects include: Kansei, Emotion and Games Kansei, Emotion and Computing Kansei, Emotion and Wellbeing / Quality of Life Kansei, Emotion and Design Kansei, Emotion and Health / Ergonomics Kansei, Emotion and Multidisciplinary Fields Kansei, Emotion and Culture Kansei, Emotion and Social computing Kansei, Emotion and Evaluation Kansei, Emotion and User Experience The book offers a valuable resource for all graduate students, experienced researchers and industrial practitioners interested in the fields of user experience/usability, engineering design, human factors, quality management, product development and design.

Intelligent System Algorithms and Applications in Science and Technology Sunil Pathak 2022-02-03

The 21st century has witnessed massive changes around the world in intelligence systems in order to become smarter, energy efficient, reliable, and cheaper. This volume explores the application of intelligent techniques in various fields of engineering and technology. It addresses diverse topics in such areas as machine learning-based intelligent systems for healthcare, applications of artificial intelligence and the Internet of Things, intelligent data analytics techniques, intelligent network systems and applications, and inequalities and process control systems. The authors explore the full breadth of the field, which encompasses data analysis, image processing, speech processing and recognition, medical science and healthcare monitoring, smart irrigation systems, insurance and banking, robotics and process control, and more.

Handbook of Mobile Systems Applications and Services Anup Kumar 2016-04-19 From fundamental concepts and theories to implementation protocols and cutting-edge applications, the Handbook of Mobile Systems Applications and Services supplies a complete examination of the evolution of mobile services technologies. It examines service-oriented architecture (SOA) and explains why SOA and service oriented computing (SOC) will pl

Smart Ships Taylor & Francis Group 2021-10 The purpose of this edited book is to provide state-of-the-art approaches and novel technologies for smart ships coving a range of topics in the areas so that it will be an excellent reference book for the researchers, students and professionals in these areas.

Internet of Things and Secure Smart Environments Uttam Ghosh 2020-10-15 The main goal of Internet of Things

(IoT) is to make secure, reliable, and fully automated smart environments. However, there are many technological challenges in deploying IoT. This includes connectivity and networking, timeliness, power and energy consumption dependability, security and privacy, compatibility and longevity, and network/protocol standards. Internet of Things and Secure Smart Environments: Successes and Pitfalls provides a comprehensive overview of recent research and open problems in the area of IoT research. Features: Presents cutting edge topics and research in IoT Includes contributions from leading worldwide researchers Focuses on IoT architectures for smart environments Explores security, privacy, and trust Covers data handling and management (accumulation, abstraction, storage, processing, encryption, fast retrieval, security, and privacy) in IoT for smart environments This book covers state-of-the-art problems, presents solutions, and opens research directions for researchers and scholars in both industry and academia.

Unlicensed Mobile Access Technology
Yan Zhang 2008-08-28 The goal of Unlicensed Mobile Access (UMA) is to provide seamless access to GSM and GPRS mobile service networks via unlicensed spectrum technologies, including Bluetooth, WiMAX, and Wi-Fi. Expanding on the level of knowledge in this growing field, Unlicensed Mobile Access Technology: Protocols, Architectures, Security, Standards, and Applications presents the first complete cross-referenced resource exploring UMA and UMA-relevant technologies. When operating successfully, the technology supporting dual-mode enabled mobile terminals allows subscribers to roam freely and seamlessly between cellular networks. However, various technical challenges still

occasionally impede clear communication. This book explores the complex issue of mobility management and emphasizes the need for intelligently designed vertical and horizontal handoff algorithms that will improve adaptability in heterogeneous wireless environments. In addition, it reviews the various strategies to guarantee Quality-of-Service (QoS) during movement and handoff. The first chapters introduce the basic technology of these systems and discuss QoS, resource management, mobility management, and security issues in UMA technology. The middle section concentrates on protocols and security challenges in UMA-related technologies, which include Bluetooth, WirelessPAN, Wi-Fi (IEEE 802.11) and WiMAX (IEEE 802.16). The final chapters present standard specifications and various applications. Comprised of contributions from world-wide experts, this book is a complete reference, offering guidance on all aspects of the technical and practical issues in UMA technology.
Elements of Radio Frequency Energy Harvesting and Wireless Power Transfer Systems Taimoor Khan 2020-11-12 This book focuses on elementary concepts of both radio frequency energy harvesting (RFEH) and wireless power transfer (WPT), and highlights their fundamental requirements followed by recent advancements. It provides a systematic overview of the key components required for RFEH and WPT applications and also comprehensively introduces the pioneering research advancements achieved to date. The state-of-the-art circuit design topologies for the two different applications are presented mainly in terms of antenna operating frequencies, polarization characteristics, efficient matching network circuits, rectifier

topologies, and overall rectenna systems. The book serves as a single point of reference for practicing engineers and researchers searching for potential sources and elements involved in the RFEH system as well as in the WPT system, and need rapid training and design guidelines in the following areas: • Different sensing elements used in RFEH and WPT • Inclusions of mathematical expressions and design problems • Illustration of some design examples and performance enhancement techniques

Internet of Things Nitin Goyal 2021-11-03 This reference text discusses intelligent robotic and drone technology with embedded Internet of Things (IoT) for smart applications. The text discusses future directions of optimization methods with various engineering and science fundamentals used in robotics and drone-based applications. Its emphasis is on covering deep learning and similar models of neural network-based learning techniques employed in solving optimization problems of different engineering and science applications. It covers important topics including sensors and actuators in the internet of things (IoT), internet-of-robotics-things (IoRT), IoT in agriculture and food processing, routing challenges in flying Ad-hoc networks, and smart cities. The book will serve as a useful text for graduate students and professionals in the fields of electrical engineering, electronics engineering, computer science, and mechanical engineering.

2014 Recent Advances in Engineering and Computational Sciences (RAECS) IEEE Staff 2014-03-06 "This International Conference aims to bring together researchers, engineers and practitioners from academia and industry working in all major areas and interdisciplinary areas of engineering and computational sciences to share exchange their experience "

Interdisciplinary Research in Technology and Management Satyajit Chakrabarti 2021-09-14 The conference on 'Interdisciplinary Research in Technology and Management" was a bold experiment in deviating from the traditional approach of conferences which focus on a specific topic or theme. By attempting to bring diverse inter-related topics on a common platform, the conference has sought to answer a long felt need and give a fillip to interdisciplinary research not only within the technology domain but across domains in the management field as well. The spectrum of topics covered in the research papers is too wide to be singled out for specific mention but it is noteworthy that these papers addressed many important and relevant concerns of the day.

Edge AI Xiaofei Wang 2020-08-31 As an important enabler for changing people's lives, advances in artificial intelligence (AI)-based applications and services are on the rise, despite being hindered by efficiency and latency issues. By focusing on deep learning as the most representative technique of AI, this book provides a comprehensive overview of how AI services are being applied to the network edge near the data sources, and demonstrates how AI and edge computing can be mutually beneficial. To do so, it introduces and discusses: 1) edge intelligence and intelligent edge; and 2) their implementation methods and enabling technologies, namely AI training and inference in the customized edge computing framework. Gathering essential information previously scattered across the communication, networking, and AI areas, the book can help readers to understand the connections between key enabling technologies, e.g. a) AI applications

in edge; b) AI inference in edge; c) AI training for edge; d) edge computing for AI; and e) using AI to optimize edge. After identifying these five aspects, which are essential for the fusion of edge computing and AI, it discusses current challenges and outlines future trends in achieving more pervasive and fine-grained intelligence with the aid of edge computing.

2020 International Conference on Intelligent Engineering and Management (ICIEM) IEEE Staff 2020-06-17 Amity University London Campus will be conducting International Conference on Intelligent Engineering and Management We will like to bring together the scholars, scientists and industrialists from all across the world to the wide spectrum of engineering fields to a common platform and achieve the following To present the ongoing researches in different fields and hence to foster research relations between the Universities and the industry Give participants a review of the latest and upcoming trends in the next few years Exposing the audience to the need for more development and research for innovation Provide the delegates to share their new ideas and the application experiences face to face

2019 8th International Conference System Modeling and Advancement in Research Trends (SMART) IEEE Staff 2019-11-22 College of Computing Sciences & Information Technology, Teerthanker Mahaveer University, Moradabad, is organizing its Eight International Conference on System Modeling & Advancement in Research Trends in technical co sponsorship with IEEE Uttar Pradesh Section, on 22nd 23th November, 2019 The 8th International Conference on System Modeling & Advancement in Research Trends (SMART2019) will bring together leading researchers, engineers and scientists in the domain of interest from around the world by providing a platform to present new advances and research results in the fields of Computational Sciences, system modeling and computer science Moradabad is a city in Uttar Pradesh state of India

Computational Intelligence and Data Sciences Taylor & Francis Group 2022-02-23 This book presents futuristic trends in computational intelligence including algorithms used in different application domains in health informatics covering bio-medical, bioinformatics, &biological sciences. It provides conceptual framework with a focus on computational intelligence techniques in biomedical engineering &health informatics.

2019 Third International Conference on I SMAC (IoT in Social, Mobile, Analytics and Cloud) (I SMAC) IEEE Staff 2019-12-12 Third International conference on I SMAC (IoT in Social, Mobile, Analytics and Cloud) (I SMAC 2019) is being organized on 12 14, December, 2019 by SCAD Institute of Technology at Palladam, India I SMAC will provide an outstanding international forum for sharing knowledge and results in all future fields of Internet of Things in Social, Mobile, Analytics and Cloud I SMAC provides quality key experts who provide an opportunity in bringing up innovative ideas Recent updates in the in the field of IoT will be a platform for the upcoming researchers The conference will be Complete, Concise, Clear and Cohesive in terms of research related to IoT Both academic world and industries are invited to present their papers dealing with state of art research and future developments