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*Bluetooth Based
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GUERRA CORTEZ

*Intelligent Communication Technologies
and Virtual Mobile Networks* Springer

This book presents select proceedings of International Conference on Energy, Material Sciences and Mechanical Engineering (EMSME) 2020, held at National Institute of Technology Delhi. Various topics covered in this book include clean materials, solar energy systems, wind energy systems, power optimization, grid integration of renewable energy, smart energy storage technologies, artificial intelligence in solar and wind

system, analysis of clean energy material in environment, converter topology, modelling and simulation. This book will be useful for researchers and professionals working in the areas of solar material science, electrical engineering, and energy technologies.

Techno-Societal 2020 Springer Nature
This book aims to provide a platform to the researchers and practitioners from both academia and industry to meet and share their experience and knowledge. Forthcoming Networks and Sustainability in the IoT Era (FoNeS-IoT), Volume 1 & 2, aims to bring together researchers and professionals to exchange ideas on the advancements in technology, application areas for advanced communication

systems and development of new services, and facilitate a tremendous growth of new devices and smart things that need to be connected to the Internet through a variety of wireless technologies. Parallel to this, new capabilities such as pervasive sensing, multimedia sensing, machine learning, deep learning, unmanned aerial vehicles, cloud and edge computing, energy efficiency/harvesting, and computing power open the way to new domains, services, and business models beyond the traditional mobile Internet. The new areas in turn come with various requirements in terms of reliability, quality of service, and energy efficiency. These are only some examples of the challenges that are of interest to researchers in

Forthcoming Networks and Sustainability in the IoT Era (FoNeS-IoT). It will explore the latest developments, innovations, and best practices within the IoT and the impact it has on industries including: manufacturing, transport, supply chain, communication, government, legal sectors, financial services, energy utilities, insurance, health care, retail, and many others. It provides opportunities for academicians and scientists along with professionals, policymakers, and practitioners from various fields in a global realm to present their research, contributions, and views, on one forum, and interact with members inside and outside their own particular disciplines. Papers describing applications of IoT in e-Health, Smart Systems & Management, Communication, and Education are also included, but the focus is mainly on how new and novel techniques advance the performance in application areas, rather than a presentation of yet another application of conventional tool. Papers on such applications describe a principled solution, emphasize its novelty, and present an in-depth evaluation of the techniques being exploited.

Current Academic Studies in Educational Sciences Linköping University Electronic Press

The book includes new research results of scholars from the Second International Conference on Advanced Intelligent Technologies (ICAIT 2021) subtitled Intelligent Technology and Industry organized by IRNet International Academic Communication Center, held during October 15–17, 2021. The book covers research work from active researchers who are working on collaboration of industry and various intelligent technologies such as intelligent technologies applicable/applied to manufacturing and distribution of industrial products, factory automation, business, etc. The book focuses on theory, design, development, testing, and evaluation of all intelligent technologies applicable/applied to various parts of industry and its infrastructure. The topics included are all computational intelligence techniques applicable/applied to industry, intelligent techniques in data science applicable/applied to business and management, intelligent network systems applicable/applied to industrial production,

intelligent technologies applicable to smart agriculture, and intelligent information systems for agriculture.

Advances in Dependability Engineering of Complex Systems Springer Nature

The book presents high-quality papers from the Fourth International Conference on Microelectronics and Telecommunication Engineering (ICMETE 2021). It discusses the latest technological trends and advances in major research areas such as microelectronics, wireless communications, optical communication, signal processing, image processing, big data, cloud computing, artificial intelligence and sensor network applications. This book includes the contributions of national and international scientists, researchers, and engineers from both academia and the industry. The contents of this volume will be useful to researchers, professionals, and students alike.

Generative Adversarial Networks for Image-to-Image Translation Springer
2020 IEEE SIST topics include, but are not limited to, the following research areas
Technology and Engineering Management
IT in Education and Research Emerging

Trends and Technologies in IT Application Data Science and Advanced Analytics The conference will be co sponsored by IEEE Ukraine Section The 2020 IEEE SIST International Conference is a significant event in the scientific society of Kazakhstan which will have business people, scientists, researchers, specialists and students from different areas of IT industry from near and far abroad This conference allows people to exchange their experience, enlarge and broaden their knowledge and perspectives on specific topics, widen their professional network and contribute to the finding responses to some issues on recent trends in IT The conference may serve as a starting point for ideas for realizing governmental programs and development and research works as a result *ICASDMBW 2022* Springer Nature This book explores recent advances in the Internet of things (IoT) via advanced technologies and provides an overview of most aspects which are relevant for advance secure, distributed, decentralized blockchain technology in the Internet of things, their applications, and industry IoT. The book provides an in-depth analysis of

the step-by-step evolution of IoT to create a change by enhancing the productivity of industries. It introduces how connected things, data, and their communication (data sharing) environment build a transparent, reliable, secure environment for people, processes, systems, and services with the help of blockchain technology.

Advances in Intelligent Computing and Communication Springer Nature This book contains a selection of articles from The Europe, Middle East and North Africa Conference on Technology and Security to Support Learning 2016 (EMENA-TSSL'16), held between the 3th and 5th of October at Saidia, Oujda, Morocco. EMENA-TSSL'16 is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges in Information & Communication Technologies, and Security to support Learning. The main topics covered are: A) Online Education; B) Emerging Technologies in Education; C) Artificial Intelligence in Education; D) Gamification and Serious games; E) Network & Web Technologies Applications;

F) Online experimentation and Virtual Laboratories; G) Multimedia Systems and Applications; H) Security and Privacy; I) Multimedia, Computer Vision and Image Processing; J) Cloud, Big Data Analytics and Applications; K) Human-Computer Interaction; L) Software Systems, Architectures, Applications and Tools; M) Online Languages and Natural Language Processing N) E-content Development, Assessment and Plagiarism; O) Secure E-Learning Development and Auditing; P) Internet of Things and Wireless Sensor Networks.

Embracing Machines and Humanity Through Cognitive Computing and IoT Springer Science & Business Media This book presents the scientific outcome of the 4th ACIS International Conference on Computational Science/Intelligence & Applied Informatics (CSII 2017), which was held on July 9–13, 2017 in Hamamatsu, Japan. The aim of this conference was to bring together researchers and scientists, businessmen and entrepreneurs, teachers, engineers, computer users, and students to discuss the numerous fields of computer science, to share their experiences and to exchange new ideas

and information in a meaningful way. The book includes research findings concerning all aspects (theory, applications and tools) of computer and information science, and discusses the practical challenges encountered and the solutions adopted to address them. The book features 16 of the conference's most promising papers, written by researchers who are expected to make significant contributions in the field of computer and information science.

Computational Science/Intelligence and Applied Informatics Springer Nature

This book aims to provide the latest research findings, innovative research results, methods, and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and their applications. The networks and information systems of today are evolving rapidly. There are new trends and applications in information networking such as wireless sensor networks, ad hoc networks, peer-to-peer systems, vehicular networks, opportunistic networks, grid and cloud computing, pervasive and ubiquitous computing, multimedia systems, security,

multi-agent systems, high-speed networks, and web-based systems. These kinds of networks need to manage the increasing number of users, provide support for different services, guarantee the QoS, and optimize the network resources. For these networks, there are many research issues and challenges that should be considered and find solutions.

Micro-Electronics and Telecommunication Engineering Springer Nature

This book constitutes revised selected papers from the Third International Conference on Information and Communication Technology and Applications, ICTA 2020, held in Minna, Nigeria, in November 2020. Due to the COVID-19 pandemic the conference was held online. The 67 full papers were carefully reviewed and selected from 234 submissions. The papers are organized in the topical sections on Artificial Intelligence, Big Data and Machine Learning; Information Security Privacy and Trust; Information Science and Technology.

First International Conference on Artificial Intelligence and Cognitive Computing Springer

In today's complicated environment, strategic organizational decision-making is a dynamic process marked by a high degree of uncertainty. It is anticipated that the technological potential of artificial intelligence (AI) will provide additional support, but research in this area is still in its early stages. Nonetheless, because the technology is intended to perform functions beyond those of traditional machines, the implications for the division of work and the defining of roles established in the current human-machine relationship are being explored with more awareness. Taking this into consideration ICASDMBW-2022 was flourishingly organized on Dec 16-17, 2022 at Rukmini Devi Institute of Advanced Studies, Delhi. The conference was organized with the purpose to see the applications of AI in the business world and management decision-making. More than 100 participants from around the world participated in the conference and shared their insights, and research ideas relevant to the theme of the conference. We are pleased to inform you that, following careful evaluation, the conference panel has chosen 21 excellent papers from the submissions and

assembled them into the proceedings. The following themes are included in the proceedings, although they are not restricted to AI in Human Resources, AI in Finance, AI in Education, AI in Marketing, Statistical analysis, etc. Each manuscript has undergone thorough review and editing in order to ensure that it satisfies publication standards.

Machine Learning for Predictive Analysis
Springer

This book is a remarkable collection of chapters covering a wide domain of topics related to artificial intelligence and its applications to the real world. The conference attracted a total of 494 submissions from many academic pioneering researchers, scientists, industrial engineers, and students from all around the world. These submissions underwent a double-blind peer-reviewed process. Of the total submissions, 176 submissions have been selected to be included in these proceedings. It is difficult to imagine how artificial intelligence has become an inseparable part of our life. From mobile phones, smart watches, washing machines to smart homes, smart cars, and smart industries, artificial

intelligence has helped to revolutionize the whole globe. As we witness exponential growth of computational intelligence in several directions and use of intelligent systems in everyday applications, this book is an ideal resource for reporting latest innovations and future of AI. Distinguished researchers have made valuable studies to understand the various bottlenecks existing in different arenas and how they can be overcome with the use of intelligent systems. This book also provides new directions and dimensions of future research work. We hope that readers find the volume interesting and valuable.

Information and Communication Technology and Applications
Springer Nature

This book presents the latest research findings and innovative theoretical and practical research methods and development techniques related to the emerging areas of information networking and their applications. Today's networks and information systems are evolving rapidly, and there are several new trends and applications, such as wireless sensor networks, ad hoc networks, peer-to-peer

systems, vehicular networks, opportunistic networks, grid and cloud computing, pervasive and ubiquitous computing, multimedia systems, security, multi-agent systems, high-speed networks, and web-based systems. These networks have to deal with the increasing number of users, provide support for different services, guarantee the QoS, and optimize the network resources, and as such there are numerous research issues and challenges that need to be considered and addressed.

2019 9th International Conference on Cloud Computing, Data Science and Engineering (Confluence)
Academic Press

A major new professional reference work on fingerprint security systems and technology from leading international researchers in the field. Handbook provides authoritative and comprehensive coverage of all major topics, concepts, and methods for fingerprint security systems. This unique reference work is an absolutely essential resource for all biometric security professionals, researchers, and systems administrators.
ICT Systems and Sustainability
Springer Nature

This book, divided in two volumes, originates from Techno-Societal 2020: the 3rd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus of this volume is on technologies that help develop and improve society, in particular on issues such as sensor and ICT based technologies for the betterment of people, Technologies for agriculture and healthcare, micro and nano technological applications. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.

Advanced Computing Springer

The book presents high-quality research papers presented at 4th International Conference on Intelligent Computing and Advances in Communication (ICAC 2021) organized by Siksha 'O' Anusandhan, Deemed to be University, Bhubaneswar, Odisha, India, in November 2021. This book brings out the new advances and research results in the fields of theoretical, experimental, and applied signal and image processing, soft computing, networking, and antenna research. Moreover, it provides a comprehensive and systematic reference on the range of alternative conversion processes and technologies.

Present absences Springer Nature

This book gathers the proceedings of the 2017 DepCoS-RELCOMEX, an annual conference series that has been organized by the Department of Computer Engineering at the Faculty of Electronics, Wrocław University of Science and Technology, since 2006. Its mission is to continue the heritage of the other two cycles of events - the RELCOMEX conferences (1977-89) and Microcomputer Schools (1985-95) - so this year we can

celebrate the 40th anniversary of its origins. In contrast to those preceding series, which were focused on conventional reliability analysis, the goal of DepCoS is to promote a more comprehensive approach to system performability, which is now commonly called dependability. This innovative research area provides answers to the latest challenges in reliability evaluation for contemporary complex systems. Its novelty is based on a multi-disciplinary approach to system theory, technology and maintenance of systems operating in real environments. Dependability analyses concentrate on the efficient completion of tasks, services and jobs by a system considered as a combination of technical, information and human assets, in contrast to "classical" reliability, which is generally limited to the analysis of technical resources and associated components and structures. The selection of papers for this volume illustrates the diversity of topics that need to be considered, from mathematical models and design methodologies through software engineering and data security issues, to practical engineering problems in

technical systems. In addition, this edition of the conference hosted the 7th CrISS-DESSERT Workshop, which was devoted to the analysis and assurance of safety and cyber security in critical infrastructure and computer systems.

Application of Communication

Computational Intelligence and Learning

Springer Nature

This book presents original research works by researchers, engineers and practitioners in the field of artificial intelligence and cognitive computing. The book is divided into two parts, the first of which focuses on artificial intelligence (AI), knowledge representation, planning, learning, scheduling, perception-reactive AI systems, evolutionary computing and other topics related to intelligent systems and computational intelligence. In turn, the second part focuses on cognitive computing, cognitive science and cognitive informatics. It also discusses applications of cognitive computing in medical informatics, structural health

monitoring, computational intelligence, intelligent control systems, bio-informatics, smart manufacturing, smart grids, image/video processing, video analytics, medical image and signal processing, and knowledge engineering, as well as related applications.

Advances in Networked-based Information Systems CRC Press

This book constitutes the refereed post-conference proceedings of the 16th International Conference on Cognitive Radio Oriented Wireless Networks, CROWNCOM 2021, held in December 2021, and the 14th International Conference on Wireless Internet, WiCON 2021, held in November 2021. Due to COVID-19 pandemic the conferences were held virtually. The 18 full papers of CROWNCOM 2021 were selected from 40 submissions and present new research results and perspectives of cognitive radio systems for 5G and beyond 5G networks, big data technologies, such as storage, search and management. WiCON 2021 presents 7 papers covering topics ranging

from technology issues to new applications and test-bed developments, especially focusing on next-generation wireless Internet, 5G, 6G, IoT, Industrial IoT, Healthcare IoT, and related methodologies.

Advances in Energy Technology

Springer

The book is a collection of high-quality research papers presented at Intelligent Communication Technologies and Virtual Mobile Networks (ICICV), held at Francis Xavier Engineering College, Tirunelveli, Tamil Nadu, India, during February 10–11, 2022. The book shares knowledge and results in theory, methodology and applications of communication technology and mobile networks. The book covers innovative and cutting-edge work of researchers, developers and practitioners from academia and industry working in the area of computer networks, network protocols and wireless networks, data communication technologies and network security.