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Big Data and Internet of Things: A Roadmap for Smart Environments

Big Data And Internet Of Things A Roadmap For Smart Environments Studies In Computational Intelligence

Zaigham Mahmood



Big Data And Internet Of Things A Roadmap For Smart Environments Studies In Computational Intelligence:

Big Data and Internet of Things: A Roadmap for Smart Environments Nik Bessis, Ciprian Dobre, 2014-03-11 This book presents current progress on challenges related to Big Data management by focusing on the particular challenges associated with context aware data intensive applications and services The book is a state of the art reference discussing progress made as well as prompting future directions on the theories practices standards and strategies that are related to the emerging computational technologies and their association with supporting the Internet of Things advanced functioning for organizational settings including both business and e science Apart from inter operable and inter cooperative aspects the book deals with a notable opportunity namely the current trend in which a collectively shared and generated content is emerged from Internet end users Specifically the book presents advances on managing and exploiting the vast size of data generated from within the smart environment i e smart cities towards an integrated collective intelligence approach The book also presents methods and practices to improve large storage infrastructures in response to increasing demands of the data intensive applications The book contains 19 self contained chapters that were very carefully selected based on peer review by at least two expert and independent reviewers and is organized into the three sections reflecting the general themes of interest to the IoT and Big Data communities Section I Foundations and Principles Section II Advanced Models and Architectures Section III Advanced Applications and Future Trends The book is intended for researchers interested in joining interdisciplinary and transdisciplinary works in the areas of Smart Environments Internet of Things and various computational technologies for the purpose of an integrated collective computational intelligence approach into the Big Data era

Future Data and Security Engineering Tran Khanh Dang, Josef Küng, Tai M. Chung, Makoto Takizawa, 2021-11-18

This book constitutes the proceedings of the 8th International Conference on Future Data and Security Engineering FDSE 2021 which was supposed to be held in Ho Chi Minh City Vietnam in November 2021 but the conference was held virtually due to the COVID 19 pandemic The 24 full papers presented together with 2 invited keynotes were carefully reviewed and selected from 168 submissions The selected papers are organized into the following topical headings Big Data Analytics and Distributed Systems Advances in Machine Learning for Big Data Analytics Industry 4 0 and Smart City Data Analytics and Security Blockchain and IoT Applications Machine Learning and Artificial Intelligence for Security and Privacy Emerging Data Management Systems and Applications

The Rise of Fog Computing in the Digital Era Srinivasa, K.G., Lathar, Pankaj, Siddesh, G.M., 2018-08-31 With the immense growth of information the prevalence of ubiquitously connected smart devices is rapidly increasing Providing platforms that support computation storage and networking services between end devices is an essential aspect of an expanding digital society The Rise of Fog Computing in the Digital Era provides innovative insights into the present generation of computing devices as well as new approaches to computational platforms through fog computing The content within this publication presents concepts and theories on data analytics management

systems networking architectures and many more It is a vital reference source for IT professionals computer programmers software developers computer engineers researchers and upper level students seeking topics centered on the challenges and benefits of fog computing in mobile environments

Internet of Things Applications - From Research and Innovation to Market Deployment Ovidiu Vermesan,Peter Friess,2022-09-01 The book aims to provide a broad overview of various topics of Internet of Things from the research innovation and development priorities to enabling technologies nanoelectronics cyber physical systems architecture interoperability and industrial applications It is intended to be a standalone book in a series that covers the Internet of Things activities of the IERC Internet of Things European Research Cluster from technology to international cooperation and the global state of play The book builds on the ideas put forward by the European research Cluster on the Internet of Things Strategic Research Agenda and presents global views and state of the art results

Information Security Governance using Artificial Intelligence of Things in Smart Environments Mariyam Ouaisa,Mariya Ouaisa,Tarik Hidar,Ram Chandra Sachan,Akhil Mittal,Sanjay Poddar,2025-06-30 This book explores the integration of Artificial Intelligence AI with the Internet of Things IoT to address security challenges in smart environments It delves into how AI enhances the governance of information security by automating processes detecting threats and ensuring the protection of data in interconnected IoT systems It covers theoretical foundations practical frameworks and case studies offering insights into securing smart cities homes industries and healthcare systems It also emphasizes governance models that leverage AI to manage security policies and risk in dynamic data driven ecosystems This title focuses on the study and application of AI of Things in the field of information security governance Intelligent environments characterized by increasing connectivity of devices and systems present unique challenges for information security The use of AI of Things offers opportunities to enhance security in these complex environments

Energy Conservation Solutions for Fog-Edge Computing Paradigms Rajeev Tiwari,Mamta Mittal,Lalit Mohan Goyal,2021-09-07 This book focuses on energy efficiency concerns in fog edge computing and the requirements related to Industry 4 0 and next generation networks like 5G and 6G This book guides the research community about practical approaches methodological and moral questions in any nations journey to conserve energy in fog edge computing environments It discusses a detailed approach required to conserve energy and comparative case studies with respect to various performance evaluation metrics such as energy conservation resource allocation strategies task allocation strategies VM migration and load sharing strategies with state of the art approaches with fog and edge networks

Fog Computing Zaigham Mahmood,2018-07-12 This authoritative text reference describes the state of the art of fog computing presenting insights from an international selection of renowned experts A particular focus is provided on development approaches architectural mechanisms and measurement metrics for building smart adaptable environments The coverage also includes important related topics such as device connectivity security and interoperability and communication methods Topics and features introduces the core concepts and principles of

fog computing and reviews the latest research and best practice relating to fog edge environments discusses the vision for an Internet of Things IoT in terms of fog computing and other related distributed computing paradigms such as cloud computing presents a survey of the key issues and broader aspects of the fog paradigm as well as the factors that affect adoption of fog computing examines frameworks and methodologies for fog based architecture design improving performance and measuring quality of experience proposes tools and methodologies for analyzing large amounts of sensor data from smart city initiatives describes approaches for designing robust services management of data intensive applications context aware data analysis and vehicular networking identifies potential future research directions and technological innovations in relation to distributed computing environments such as the IoT This enlightening volume offers essential perspectives for researchers of distributed computing and computer networking as well as for advanced undergraduate and graduate students pursuing interests in this area Professional engineers seeking to enhance security and connectivity in their IoT systems will also find this work to be a valuable reference

EDGE AI - A Potential Game Changer S. R. Jena, Dr. Dileep Kumar M., Dr. Sohit Agarwal, Dr. Vineet Mehan, 2025-04-20 This book will provide a comprehensive exploration of edge AI detailing its underlying technologies current applications and future potential It will bridge the gap between theoretical concepts and practical implementations making it an invaluable resource for researchers industry professionals and students alike This book aims to be a seminal work that not only educates but also inspires its readers to harness the power of edge AI

Innovations in Computational Intelligence, Big Data Analytics and Internet of Things Sam Goundar, J. Avanija, Gurram Sunitha, K. Reddy Madhavi, 2024-03-01 As sensors spread across almost every industry the internet of things is going to trigger a massive influx of big data We delve into where IoT will have the biggest impact and what it means for the future of big data analytics Internet of Things is changing the face of different sectors such as manufacturing health care business education etc by completely redefining the way people devices and apps connect and interact with each other in the eco system From personal fitness and wellness sensors implantable devices to surgical robots IoT is bringing in new tools and efficiencies in the ecosystem resulting in more integrated healthcare Application of computational intelligence techniques is today considered as a key success factor to solve the growing scale and complexity of problems in the field of health care systems agriculture e commerce etc The convergence of Computational intelligence Big Data and IoT provides new opportunities and revolutionize business in huge way This book will support industry and governmental agencies to facilitate and make sense of myriad connected devices in coming decade This book offers the recent advancements in Computational Intelligence IoT and Big Data Analytics Development of models and algorithms for employing IoT based facilities in healthcare industry agriculture e commerce manufacturing business etc Methods for collection management retrieval and processing of Big Data in various domains Provides taxonomy of challenges issues and research directions in applications of computational intelligence techniques in different domains

Internet of Things and Big Data Analytics Toward Next-Generation Intelligence Nilanjan

Dey, Aboul Ella Hassanien, Chintan Bhatt, Amira S. Ashour, Suresh Chandra Satapathy, 2017-08-14 This book highlights state of the art research on big data and the Internet of Things IoT along with related areas to ensure efficient and Internet compatible IoT systems It not only discusses big data security and privacy challenges but also energy efficient approaches to improving virtual machine placement in cloud computing environments Big data and the Internet of Things IoT are ultimately two sides of the same coin yet extracting analyzing and managing IoT data poses a serious challenge Accordingly proper analytics infrastructures platforms should be used to analyze IoT data Information technology IT allows people to upload retrieve store and collect information which ultimately forms big data The use of big data analytics has grown tremendously in just the past few years At the same time the IoT has entered the public consciousness sparking people's imaginations as to what a fully connected world can offer Further the book discusses the analysis of real time big data to derive actionable intelligence in enterprise applications in several domains such as in industry and agriculture It explores possible automated solutions in daily life including structures for smart cities and automated home systems based on IoT technology as well as health care systems that manage large amounts of data big data to improve clinical decisions The book addresses the security and privacy of the IoT and big data technologies while also revealing the impact of IoT technologies on several scenarios in smart cities design Intended as a comprehensive introduction it offers in depth analysis and provides scientists engineers and professionals the latest techniques frameworks and strategies used in IoT and big data technologies

Internet of Things, Smart Computing and Technology: A Roadmap Ahead Nilanjan Dey, Parikshit. N. Mahalle, Pathan Mohd Shafi, Vinod V. Kimabahune, Aboul Ella Hassanien, 2020-02-14 This book addresses a broad range of topics concerning machine learning big data the Internet of things IoT and security in the IoT Its goal is to bring together several innovative studies on these areas in order to help researchers engineers and designers in several interdisciplinary domains pursue related applications It presents an overview of the various algorithms used focusing on the advantages and disadvantages of each in the fields of machine learning and big data It also covers next generation computing paradigms that are expected to support wireless networking with high data transfer rates and autonomous decision making capabilities In turn the book discusses IoT applications e.g. healthcare applications that generate a huge amount of sensor data and imaging data that must be handled correctly for further processing In the traditional IoT ecosystem cloud computing offers a solution for the efficient management of huge amounts of data thanks to its ability to access shared resources and provide a common infrastructure in a ubiquitous manner Though these new technologies are invaluable they also reveal serious IoT security challenges IoT applications are vulnerable to various types of attack such as eavesdropping spoofing and false data injection the man in the middle attack replay attack denial of service attack jamming attack flooding attack etc These and other security issues in the Internet of things are explored in detail In addition to highlighting outstanding research and recent advances from around the globe the book reports on current challenges and future directions in the IoT Accordingly it offers

engineers professionals researchers and designers an applied oriented resource to support them in a broad range of interdisciplinary areas **Computational Intelligence in the Internet of Things** Purnomo, Hindriyanto Dwi,2019-03-15 In recent years the need for smart equipment has increased exponentially with the upsurge in technological advances To work to their fullest capacity these devices need to be able to communicate with other devices in their network to exchange information and receive instructions Computational Intelligence in the Internet of Things is an essential reference source that provides relevant theoretical frameworks and the latest empirical research findings in the area of computational intelligence and the Internet of Things Featuring research on topics such as data analytics machine learning and neural networks this book is ideally designed for IT specialists managers professionals researchers and academicians *Smart Computing Techniques in Industrial IoT* Chiranji Lal Chowdhary,Asis Kumar Tripathy,Yulei Wu,2024-10-19 The book provides a conceptual framework and roadmap for applications and research trends in Smart Computing Techniques in Industrial IoT This volume aims to provide information on emerging fields of intelligent computing techniques with a particular emphasis on industrial IoT development and applications of artificial intelligence deep learning techniques computational intelligence methods the Internet of Medical Things IoMT optimization techniques blockchain and cloud computing It will be a useful guide for undergraduate and postgraduate students studying artificial intelligence deep learning industry 4 0 industry 5 0 smart cities machine learning deep learning computational intelligence and edge cloud computing AI and IoT for Smart City Applications Vincenzo Piuri,Rabindra Nath Shaw,Ankush Ghosh,Rabiul Islam,2022-01-04 This book provides a valuable combination of relevant research works on developing smart city ecosystem from the artificial intelligence AI and Internet of things IoT perspective The technical research works presented here are focused on a number of aspects of smart cities smart mobility smart living smart environment smart citizens smart government and smart waste management systems as well as related technologies and concepts This edited book offers critical insight to the key underlying research themes within smart cities highlighting the limitations of current developments and potential future directions **Internet of Things** Ovidiu Vermesan,Peter Friess,2013 Today we see the integration of Industrial Business and Consumer Internet This integration is bringing together the Internet of People Internet of Things Internet of Energy Internet of Vehicles and Internet of Media Services and Enterprises In this way it forms the backbone of the digital economy and digital society and the foundation for the future knowledge and innovation based economy in supporting solutions for the emerging challenges of public health aging population environmental protection and climate change the conservation of energy and scarce materials enhancements to safety and security and the continuation and growth of economic prosperity Penetration of smartphones and advances in machine to machine M2M and wireless communication technology will be the main drivers for Internet of Things IoT development The IoT contribution is in the increased value of information created by the number of interconnections and the transformation of the processed information into knowledge shared in the Internet of Everything

The connected devices are part of ecosystems connecting people processes data and things which are communicating in the cloud using the increased storage and computing power and pushing for standardization of communication and metadata In this context the next generation of the cloud technologies will need to be flexible enough to scale autonomously adaptive enough to handle constantly changing connections and resilient enough to stand up to the huge flows in data that will occur For 2025 analysts forecast that there will be six devices per human on the planet which means 50 billion more connected devices over the next 12 years The IoT market is connected to this growth from industrial M2M systems smart meters and wireless sensors Enabling technologies such as nanoelectronics MEMS embedded systems intelligent device management smart phones telematics smart network infrastructure cloud computing and software technologies will create new products new services and new interfaces by creating smart environments and smart spaces with applications ranging from Smart Cities smart transport buildings energy and grid to smart health and life Internet of Things provides a broad overview of various topics of the IoT from the research and development priorities to enabling technologies architecture security privacy interoperability and industrial applications It is intended to be a standalone book in a series that covers the IoT activities of the Internet of Things European Research Cluster IERC from technology to international cooperation and the global state of play The book builds on the ideas put forward by the IERC Strategic Research Agenda and presents global views and state of the art results on the challenges that the research development and deployment of IoT faces at the global level Technical topics discussed in the book include Introduction Internet of Things in a wider context Time for convergence Internet of Things Strategic Research Agenda Interconnection and Integration of the Physical World into the Digital World Scalable Architectures for IoT Applications IoT standardisation requirements and initiatives Standardisation and Innovation Service Openness and Interoperability Software define and virtualization of network resources Mobile devices enable IoT evolution from industrial applications to mass consumer applications Innovation through Interoperability and Standardisation when everything is connected anytime at anyplace

Predictive Intelligence Using Big Data and the Internet of Things Gupta, P.K.,Ören, Tuncer,Singh, Mayank,2018-12-28 With the recent growth of big data and the internet of things IoT individuals can now upload retrieve store and collect massive amounts of information to help drive decisions and optimize processes Due to this a new age of predictive computing is taking place and data can now be harnessed to predict unknown occurrences or probabilities based on data collected in real time Predictive Intelligence Using Big Data and the Internet of Things highlights state of the art research on predictive intelligence using big data the IoT and related areas to ensure quality assurance and compatible IoT systems Featuring coverage on predictive application scenarios to discuss these breakthroughs in real world settings and various methods frameworks algorithms and security concerns for predictive intelligence this book is ideally designed for academicians researchers advanced level students and technology developers

Big Data and Computational Intelligence in Networking Yulei Wu,Fei Hu,Geyong Min,Albert Y. Zomaya,2017-12-14 This book presents state of the art

solutions to the theoretical and practical challenges stemming from the leverage of big data and its computational intelligence in supporting smart network operation management and optimization In particular the technical focus covers the comprehensive understanding of network big data efficient collection and management of network big data distributed and scalable online analytics for network big data and emerging applications of network big data for computational intelligence

Handbook of Research on Applications of AI, Digital Twin, and Internet of Things for Sustainable Development Mishra, Brojo Kishore,2023-02-17 The rapid growth and capability of artificial intelligence digital twin and the internet of things are unlocking incredible opportunities to overcome some of the greatest environmental and social impact challenges currently facing the global community such as feeding a growing population safety affordable housing and environmental sustainability The Handbook of Research on Applications of AI Digital Twin and Internet of Things for Sustainable Development provides an interdisciplinary platform encompassing research on the potential opportunities and risks of reaching sustainable development using artificial intelligence digital twin and the internet of things Covering key topics such as big data environmental protection and smart cities this major reference work is ideal for computer scientists industry professionals researchers scholars academicians librarians policymakers practitioners educators and students

Smart Internet of Things for Environment and Healthcare Mourade Azroui,Jamal Mabrouki,Abdulatif Alabdulatif,Azidine Guezzaz,Fatima Amounas,2024-10-21 Nowadays the efficient sustainable systems are becoming more and more important for sustainable life either in urban and in rural environments Despite the advances in technologies it is always important to consider the environment where we live Hence the present book presents some recent and fresh works that deal with environmental problems including water quality wastewater management air pollution monitoring renewable energy solutions food security solutions and so on Besides the book investigates different applications of Artificial Intelligence for previous environmental issues This book is targeting junior researchers graduate and graduate students environmental specialists and all people who want to learn more about recent advancement in environmental solutions

Big Data, Cloud Computing and IoT Sita Rani,Pankaj Bhambri,Aman Kataria,Alex Khang,Arun Kumar Sivaraman,2023-04-19 Cloud computing the Internet of Things IoT and big data are three significant technological trends affecting the world s largest corporations This book discusses big data cloud computing and the IoT with a focus on the benefits and implementation problems In addition it examines the many structures and applications pertinent to these disciplines Also big data cloud computing and the IoT are proposed as possible study avenues Features Informs about cloud computing IoT and big data including theoretical foundations and the most recent empirical findings Provides essential research on the relationship between various technologies and the aggregate influence they have on solving real world problems Ideal for academicians developers researchers computer scientists practitioners information technology professionals students scholars and engineers exploring research on the incorporation of technological innovations to address contemporary societal challenges

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Introduction

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