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Information Centric Networks (ICN) User-Centric and Information-Centric Networking and Services Content-Centric Networks Information-Centric Networks NetInf - Network of Information Content-Centric Networks Information Centric Networks: Future Internet Enhancing the Internet with the CONVERGENCE System Security Frameworks in Contemporary Electronic Government Icn 14 Ist ACM Conference on Information-Centric Networking Advanced Information Systems Engineering User-Centric and Information-Centric Networking and Services Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics Computational Intelligence in Information Systems ICN'14 Information-centric Networking for the Constrained Internet of Things Future Network Architectures And Core Technologies Proceedings of the Second International Conference on Information Management and Machine Intelligence Fog Computing Icn 2015 2nd ACM Conference on Information -Centric Networking Cross-Disciplinary Models and Applications of

Database Management: Advancing Approaches Proceedings of the International Conference on Advanced Intelligent Systems and Informatics 2020 Emerging Networking Architecture and Technologies Recent Advances in Information and Communication Technology 2016 Advances in Edge Computing: Massive Parallel Processing and Applications The Next Generation Vehicular Networks, Modeling, Algorithm and Applications Distributed Data Fusion for Network-Centric Operations Emerging Trends in Intelligent Computing and Informatics Web, Artificial Intelligence and Network Applications Wireless Networks and Industrial IoT Next Generation of Internet of Things Advances in Parallel and Distributed Computing and Ubiquitous Services Stabilization, Safety, and Security of Distributed Systems Advances in Cyber Security and Intelligent Analytics User-Centric and Information-Centric Networking and Services IoT Edge Solutions for Cognitive Buildings Enhancing the Internet with the CONVERGENCE System Innovations in Smart Cities Applications Edition 2 Identification and Management of Distributed Data Risk Centric Threat Modeling

This book features selected papers presented at Second International Conference on International Conference on Information Management & Machine Intelligence (ICIMMI 2020) held at Poornima Institute of Engineering & Technology, Jaipur, Rajasthan, India during 24 – 25 July 2020. It covers a range of topics, including data analytics; AI; machine and deep learning; information management, security, processing techniques and interpretation; applications of artificial intelligence in soft computing and pattern recognition; cloud-based applications for

machine learning; application of IoT in power distribution systems; as well as wireless sensor networks and adaptive wireless communication. User-Centric Networks (UCN) and Information-Centric Networks (ICN) are new communication paradigms to increase the efficiency of content delivery and also content availability. In this new concept, the network infrastructure actively contributes to content caching and distribution. This book presents the basic concepts of UCN and ICN, describes the main architecture proposals for these networks, and discusses the main challenges to their development. The book also looks at the current challenges for this concept, including naming, routing and caching on the network-core elements, several aspects of content security, user privacy, and practical issues in implementing UCN and ICN. This book aimed at bringing an insight to the ICN network, particularly various architectures, issues and challenges in the new networking paradigm. The book starts with an introduction to the new promising concept of ICN and its origin along with the reason behind this interesting innovation. Different architectures proposed so far in support of implementing the ICN is also discussed in details. Few of the challenges of ICN implementation are enlisted as caching, naming, routing, and security. Each of these challenges with recent development is covered in individual chapters. Moreover, integration of current trends in communication and computing like software defined networking and machine learning approach are another area that this book is focusing. All these chapters highlight the recent developments reported in the area and also discusses the future trends. The book provides an overview of the recent developments in future internet technologies, bringing together the advancements that have been made in ICN. The book

includes three unique chapters in the field of ICN research. The first, is the SDN framework for implementing ICN by decoupling data and control plan. The machine learning models for predicting future trends in network traffic and other management activities is another important chapter. This chapter includes the possibilities of using machine learning models for trend prediction to help network administrators and service providers to take care of unexpected sudden change traffic pattern and user behaviour. The third most vital chapter is the security issues in ICN. This chapter includes various facts that influences the security of ICN. Issues involved in naming, caching and routing are discussed separately along with few recent works in these areas. Various types of attacks in ICN are also part of the discussion. The stated book would be useful for researchers in this area and will work as a reference for future work. Moreover, the content of the book would also be suitable as a supporting material for undergraduate and graduate level courses in computer science and electrical engineering. This book constitutes the refereed proceedings of the 20th International Conference on Advanced Information Systems Engineering, CAiSE 2008, held in Montpellier, France, in June 2008. The 35 revised full papers and 9 revised short papers presented together with 1 keynote lecture were carefully reviewed and selected from 273 submissions. The papers are organized in topical sections on duality and process modelling, interoperability of IS and enterprises, refactoring, information systems in e-government and life-science, knowledge patterns for IS engineering, requirements engineering for IS, conceptual schema modelling, service infrastructure, service evolution, flexible information technologies, metrics and process modelling, information system

engineering, and IS development with ubiquitous technologies. This book presents the proceedings of the 4th International Conference of Reliable Information and Communication Technology 2019 (IRICT 2019), which was held in Pulai Springs Resort, Johor, Malaysia, on September 22–23, 2019. Featuring 109 papers, the book covers hot topics such as artificial intelligence and soft computing, data science and big data analytics, internet of things (IoT), intelligent communication systems, advances in information security, advances in information systems and software engineering. This book highlights cutting-edge research presented at the third installment of the International Conference on Smart City Applications (SCA2018), held in Tétouan, Morocco on October 10–11, 2018. It presents original research results, new ideas, and practical lessons learned that touch on all aspects of smart city applications. The respective papers share new and highly original results by leading experts on IoT, Big Data, and Cloud technologies, and address a broad range of key challenges in smart cities, including Smart Education and Intelligent Learning Systems, Smart Healthcare, Smart Building and Home Automation, Smart Environment and Smart Agriculture, Smart Economy and Digital Business, and Information Technologies and Computer Science, among others. In addition, various novel proposals regarding smart cities are discussed. Gathering peer-reviewed chapters written by prominent researchers from around the globe, the book offers an invaluable instructional and research tool for courses on computer and urban sciences; students and practitioners in computer science, information science, technology studies and urban management studies will find it particularly useful. Further, the book is an excellent reference guide for professionals and

researchers working in mobility, education, governance, energy, the environment and computer sciences. Since its inception, the Internet has evolved from a textualinformation system towards a multimedia information system, inwhich data, services and applications are consumed as content.Today, however, the main problem faced is that applications are nowcontent-oriented but the protocol stack remains the same, based onthe content location. Thus, it is clear that the Internet'scurrent architecture must change. This new architecture should takeinto account aspects to improve content location and deliveryefficiency and also content availability. Fulfilling theserequirements is the main goal of information-centric networks(ICNs). ICN is a new communication paradigm to increase the efficiency ofcontent delivery and also content availability. In this newconcept, the network infrastructure actively contributes to contentcaching and distribution. This book presents the basic concepts ofICNs, describes the main architecture proposals for these networks,and discusses the main challenges to their development. InformationCentric-Networks looks at the current challenges for this concept,including: naming, routing and caching on the network-coreelements, several aspects of content security, user privacy, andpractical issues in implementing ICNs. Contents 1. Content Distribution on the Internet. 2. Information-Centric Networks. 3. Main ICN Architectures. 4. Challenges. 5. Practical Issues. About the Authors Gabriel M. Brito is an Engineer at Petrobras in Brazil andstudying for a Master's degree at the Universidade FederalFluminense in Brazil. Pedro Braconnot Velloso is an Associate Professor in the Departmentof Computer Science at the Universidade Federal Fluminense (UFF),Brazil. He worked for Bell Labs France as a research engineer from2009 to

2011. Igor M. Moraes is an Associate Professor at the UniversidadeFederal Fluminense in Brazil. This book outlines the promise of the field of the Cognitive Internet of Things when it is applied to cognitive buildings. After an introduction, the authors discuss the goals of cognitive buildings such as operation in a more efficient, flexible, interactive, intuitive, and sustainable way. They go on to outline the benefits that these technologies promise to building owners, occupants, and their environments that range from reducing energy consumption and carbon footprint to promoting health, well-being, and productivity. The authors outline technologies that provide buildings and equipment with the ability to collect, aggregate, and analyze data and how this information can be collected by sensors and related to internal conditions and settings, energy consumption, user requests, and preferences to maintain comfort and save energy. This book is of interest to practitioners, researchers, students, and professors in IoT and smart cities.? "This book addresses the difficulties and challenges faced in implementing e-government/m-government technologies and applications. It also addresses different aspects of security of e-government/m-government, ranging from big data issues, trust management, Blockchain technologies, and related topics"--Provided by publisher. This book includes selected papers from the International Conference on Next Generation of Internet of Things (ICNGIoT 2021), organized by the Department of Computer Science and Engineering, School of Engineering, GIET University, Gunupur, Odisha, India, during 5–6 February 2021. The book covers topics such as IoT network design and architecture, IoT network virtualization, IoT sensors, privacy and security for IoT, SMART environment, social networks, data science and data analytics, cognitive intelligence and

augmented intelligence, and case studies and applications. This book introduces Content-Centric Networking (CCN), a networking paradigm that provides a simple and effective solution to the challenging demands of future wired and wireless communications. It provides an overview of the recent developments in the area of future internet technologies, bringing together the advancements that have been made in Information-Centric Networking (ICN) in general, with a focus on CCN. It begins with an introduction to the basics of CCN is followed by an overview of the current internet paradigm and its challenges. Next, an application perspective has been included, where the authors encompass the selected applications for CCN with recent refereed research and developments. These applications include Internet of Things (IoT), Smart Grid, Vehicular Ad hoc Networks (VANETs), and Wireless Sensor Networks (WSNs). The book is a useful reference source for practising researchers, and can be used as supporting material for undergraduate and graduate level courses in computer science and electrical engineering. Summarizes the current state and upcoming trends within the area of fog computing Written by some of the leading experts in the field, Fog Computing: Theory and Practice focuses on the technological aspects of employing fog computing in various application domains, such as smart healthcare, industrial process control and improvement, smart cities, and virtual learning environments. In addition, the Machine-to-Machine (M2M) communication methods for fog computing environments are covered in depth. Presented in two parts—Fog Computing Systems and Architectures, and Fog Computing Techniques and Application—this book covers such important topics as energy efficiency and Quality of Service (QoS) issues, reliability and fault

tolerance, load balancing, and scheduling in fog computing systems. It also devotes special attention to emerging trends and the industry needs associated with utilizing the mobile edge computing, Internet of Things (IoT), resource and pricing estimation, and virtualization in the fog environments. Includes chapters on deep learning, mobile edge computing, smart grid, and intelligent transportation systems beyond the theoretical and foundational concepts Explores real-time traffic surveillance from video streams and interoperability of fog computing architectures Presents the latest research on data quality in the IoT, privacy, security, and trust issues in fog computing Fog Computing: Theory and Practice provides a platform for researchers, practitioners, and graduate students from computer science, computer engineering, and various other disciplines to gain a deep understanding of fog computing. Convergence proposes the enhancement of the Internet with a novel, content-centric, publish–subscribe service model based on the versatile digital item (VDI): a common container for all kinds of digital content, including digital representations of real-world resources. VDIs will serve the needs of the future Internet, providing a homogeneous method for handling structured information, incorporating security and privacy mechanisms. CONVERGENCE subsumes the following areas of research: · definition of the VDI as a new fundamental unit of distribution and transaction; · content-centric networking functionality to complement or replace IP-address-based routing; · security and privacy protection mechanisms; · open-source middleware, including a community dictionary service to enable rich semantic searches; · applications, tested under real-life conditions. This book shows how CONVERGENCE allows publishing, searching and subscribing to any content. Creators

can publish their content by wrapping it and its descriptions into a VDI, setting rights for other users to access this content, monitor its use, and communicate with people using it; they may even update or revoke content previously published. Access to content is more efficient, as search engines exploit VDI metadata for indexing, and the network uses the content name to ensure users always access the copy closest to them. Every node in the network is a content cache; handover is easy; multicast is natural; peer-to-peer is built-in; time/space-decoupling is possible. Application developers can exploit CONVERGENCE's middleware and network without having to resort to proprietary/ad hoc solutions for common/supporting functionality. Operators can use the network more efficiently, better controlling information transfer and related revenues flows. Network design, operation and management are simplified by integrating diverse functions and avoiding patches and stopgap solutions. Whether as a text for graduate students working on the future of the Internet, or a resource for practitioners providing e-commerce or multimedia services, or scientists defining new technologies, CONVERGENCE will make a valuable contribution to the future shape of the Internet. This book constitutes the refereed proceedings of the Fourth International Neural Network Symposia series on Computational Intelligence in Information Systems, INNS-CIIS 2014, held in Bandar Seri Begawan, Brunei in November 2014. INNS-CIIS aims to provide a platform for researchers to exchange the latest ideas and present the most current research advances in general areas related to computational intelligence and its applications in various domains. The 34 revised full papers presented in this book have been carefully reviewed and selected from 72 submissions. They

cover a wide range of topics and application areas in computational intelligence and informatics. With the recent proliferation of service-oriented architectures (SOA), cloud computing technologies, and distributed-interconnected systems, distributed fusion is taking on a larger role in a variety of applications—from environmental monitoring and crisis management to intelligent buildings and defense. Drawing on the work of leading experts around the world, Distributed Data Fusion for Network-Centric Operations examines the state of the art of data fusion in a distributed sensing, communications, and computing environment. Get Insight into Designing and Implementing Data Fusion in a Distributed Network Addressing the entirety of information fusion, the contributors cover everything from signal and image processing, through estimation, to situation awareness. In particular, the work offers a timely look at the issues and solutions involving fusion within a distributed network enterprise. These include critical design problems, such as how to maintain a pedigree of agents or nodes that receive information, provide their contribution to the dataset, and pass to other network components. The book also tackles dynamic data sharing within a network-centric enterprise, distributed fusion effects on state estimation, graph-theoretic methods to optimize fusion performance, human engineering factors, and computer ontologies for higher levels of situation assessment. A comprehensive introduction to this emerging field and its challenges, the book explores how data fusion can be used within grid, distributed, and cloud computing architectures. Bringing together both theoretical and applied research perspectives, this is a valuable reference for fusion researchers and practitioners. It offers guidance and insight for those working on the complex issues of

designing and implementing distributed, decentralized information fusion. From cloud computing to data analytics, society stores vast supplies of information through wireless networks and mobile computing. As organizations are becoming increasingly more wireless, ensuring the security and seamless function of electronic gadgets while creating a strong network is imperative. Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics highlights the challenges associated with creating a strong network architecture in a perpetually online society. Readers will learn various methods in building a seamless mobile computing option and the most effective means of analyzing big data. This book is an important resource for information technology professionals, software developers, data analysts, graduate-level students, researchers, computer engineers, and IT specialists seeking modern information on emerging methods in data mining, information technology, and wireless networks. User-Centric Networks (UCN) and Information-Centric Networks (ICN) are new communication paradigms to increase the efficiency of content delivery and also content availability. In this new concept, the network infrastructure actively contributes to content caching and distribution. This book presents the basic concepts of UCN and ICN, describes the main architecture proposals for these networks, and discusses the main challenges to their development. The book also looks at the current challenges for this concept, including naming, routing and caching on the network-core elements, several aspects of content security, user privacy, and practical issues in implementing UCN and ICN. User-Centric Networks (UCN) and Information-Centric Networks (ICN) are new communication paradigms to increase the

efficiency of content delivery and also content availability. In this new concept, the network infrastructure actively contributes to content caching and distribution. This book presents the basic concepts of UCN and ICN, describes the main architecture proposals for these networks, and discusses the main challenges to their development. The book also looks at the current challenges for this concept, including naming, routing and caching on the network-core elements, several aspects of content security, user privacy, and practical issues in implementing UCN and ICN. This book introduces the Process for Attack Simulation & Threat Analysis (PASTA) threat modeling methodology. It provides an introduction to various types of application threat modeling and introduces a risk-centric methodology aimed at applying security countermeasures that are commensurate to the possible impact that could be sustained from defined threat models, vulnerabilities, weaknesses, and attack patterns. This book describes how to apply application threat modeling as an advanced preventive form of security. The authors discuss the methodologies, tools, and case studies of successful application threat modeling techniques. Chapter 1 provides an overview of threat modeling, while Chapter 2 describes the objectives and benefits of threat modeling. Chapter 3 focuses on existing threat modeling approaches, and Chapter 4 discusses integrating threat modeling within the different types of Software Development Lifecycles (SDLCs). Threat modeling and risk management is the focus of Chapter 5. Chapter 6 and Chapter 7 examine Process for Attack Simulation and Threat Analysis (PASTA). Finally, Chapter 8 shows how to use the PASTA risk-centric threat modeling process to analyze the risks of specific threat agents targeting web applications. This chapter focuses

specifically on the web application assets that include customer’s confidential data and business critical functionality that the web application provides. • Provides a detailed walkthrough of the PASTA methodology alongside software development activities, normally conducted via a standard SDLC process • Offers precise steps to take when combating threats to businesses • Examines real-life data breach incidents and lessons for risk management Risk Centric Threat Modeling: Process for Attack Simulation and Threat Analysis is a resource for software developers, architects, technical risk managers, and seasoned security professionals. Although several books and academic courses discuss data management and networking, few of them focus on the convergence of networking and software technologies for identifying, addressing, and managing distributed data. Focusing on this convergence, Identification and Management of Distributed Data: NGN, Content-Centric Networks and the Web collates and describes the various distributed data management technologies to help readers from various backgrounds understand the common aspects that govern distributed data management. With a focus on the primary problems in identifying, addressing, and managing information in a distributed environment, the book guides you through the discovery of distributed data management on the web, in next-generation networks (NGNs), and in new content-centric networking paradigms. It includes case studies from the Palo Alto Research Center and the Semantic Web Education and Outreach Interest Group that illustrate the convergence between software engineering and networking technologies. Derived from academic courses, ongoing research, and the latest standardization initiatives, the book explains how the various layers of the existing Internet

protocol stack already provide most of the functions that information engineers need to design efficient systems. Although the subject is broad, the book provides helpful insights into a number of critical technologies to provide you with the foundation required to build and deploy more efficient data interoperability paradigms in next-generation networks. Within a given enterprise, database management involves the monitoring, administration, and maintenance of the databases, which constantly change with new technologies and new forms of data.Cross-Disciplinary Models and Applications of Database Management: Advancing Approaches is an updated look at the latest tools and technology within the burgeoning field of database management. Perfect for the network administrator, technician, information technology specialist or consultant, or for academics and students, this volume presents the latest the field has to offer by way of cases and new research. As database languages, models, and systems change, it's vital for practitioners within the field to stay abreast of the latest research and methods being used around the world, and this book offers the most current advances available. This proceedings book presents the latest research findings, and theoretical and practical perspectives on innovative methods and development techniques related to the emerging areas of Web computing, intelligent systems and Internet computing. The Web has become an important source of information, and techniques and methodologies that extract quality information are of paramount importance for many Web and Internet applications. Data mining and knowledge discovery play a key role in many of today's major Web applications, such as e-commerce and computer security. Moreover, Web services provide a new platform for enabling service-oriented systems. The emergence of large-

scale distributed computing paradigms, such as cloud computing and mobile computing systems, has opened many opportunities for collaboration services, which are at the core of any information system. Artificial intelligence (AI) is an area of computer science that builds intelligent systems and algorithms that work and react like humans. AI techniques and computational intelligence are powerful tools for learning, adaptation, reasoning and planning, and they have the potential to become enabling technologies for future intelligent networks. Research in the field of intelligent systems, robotics, neuroscience, artificial intelligence and cognitive sciences is vital for the future development and innovation of Web and Internet applications. Chapter "An Event-Driven Multi Agent System for Scalable Traffic Optimization" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com. This proceedings book presents recent research work and results in the area of communication and information technologies. The chapters of this book contain the main, well-selected and reviewed contributions of scientists who met at the 12th International Conference on Computing and Information Technology (IC2IT) held during 7th - 8th July 2016 in Khon Kaen, Thailand The book is divided into three parts: “User Centric Data Mining and Text Processing”, “Data Mining Algoritms and their Applications” and “Optimization of Complex Networks”. This book introduces the background, basic concepts and evolution of computer network development; by comparing and contrasting with the typical network architectures in the market. The book focuses on the architecture and underpinning technologies towards the future in network designs. It also provides a reconfigurable evolutionary network function innovation

platform for researches to run experiments on the networks they designed. The contents of this book are novel, informative, and practical — a reflection of the state-of-art development in network architecture.This book is written for engineers and researchers specializing in communications or computer networks. It could also be adopted as a textbook for graduate students majoring in communications, computing, and computer network related disciplines in colleges and universities. This book presents the proceedings of the 6th International Conference on Advanced Intelligent Systems and Informatics 2020 (AISI2020), which took place in Cairo, Egypt, from October 19 to 21, 2020. This international and interdisciplinary conference, which highlighted essential research and developments in the fields of informatics and intelligent systems, was organized by the Scientific Research Group in Egypt (SRGE). The book is divided into several sections, covering the following topics: Intelligent Systems, Deep Learning Technology, Document and Sentiment Analysis, Blockchain and Cyber Physical System, Health Informatics and AI against COVID-19, Data Mining, Power and Control Systems, Business Intelligence, Social Media and Digital Transformation, Robotic, Control Design, and Smart Systems. This book constitutes refereed proceedings of the First International Conference on Emerging Networking Architecture and Technologies, ICENAT 2022, held in Shenzhen, China, in October 2022. The 50 papers presented were thoroughly reviewed and selected from the 106 submissions. The volume focuses on the latest achievements in the field of emerging network technologies, covering the topics of emerging networking architecture, network frontier technologies, industry network applications and so on. This book introduces Content-Centric

Networking (CCN), a networking paradigm that provides a simple and effective solution to the challenging demands of future wired and wireless communications. It provides an overview of the recent developments in the area of future internet technologies, bringing together the advancements that have been made in Information-Centric Networking (ICN) in general, with a focus on CCN. It begins with an introduction to the basics of CCN is followed by an overview of the current internet paradigm and its challenges. Next, an application perspective has been included, where the authors encompass the selected applications for CCN with recent refereed research and developments. These applications include Internet of Things (IoT), Smart Grid, Vehicular Ad hoc Networks (VANETs), and Wireless Sensor Networks (WSNs). The book is a useful reference source for practising researchers, and can be used as supporting material for undergraduate and graduate level courses in computer science and electrical engineering. The rapid advance of Internet of Things (IoT) technologies has resulted in the number of IoT-connected devices growing exponentially, with billions of connected devices worldwide. While this development brings with it great opportunities for many fields of science, engineering, business and everyday life, it also presents challenges such as an architectural bottleneck – with a very large number of IoT devices connected to a rather small number of servers in Cloud data centers – and the problem of data deluge. Edge computing aims to alleviate the computational burden of the IoT for the Cloud by pushing some of the computations and logics of processing from the Cloud to the Edge of the Internet. It is becoming commonplace to allocate tasks and applications such as data filtering, classification, semantic enrichment and data aggregation to

this layer, but to prevent this new layer from itself becoming another bottleneck for the whole computing stack from IoT to the Cloud, the Edge computing layer needs to be capable of implementing massively parallel and distributed algorithms efficiently. This book, Advances in Edge Computing: Massive Parallel Processing and Applications, addresses these challenges in 11 chapters. Subjects covered include: Fog storage software architecture; IoT-based crowdsourcing; the industrial Internet of Things; privacy issues; smart home management in the Cloud and the Fog; and a cloud robotic solution to assist medical applications. Providing an overview of developments in the field, the book will be of interest to all those working with the Internet of Things and Edge computing. Convergence proposes the enhancement of the Internet with a novel, content-centric, publish–subscribe service model based on the versatile digital item (VDI): a common container for all kinds of digital content, including digital representations of real-world resources. VDIs will serve the needs of the future Internet, providing a homogeneous method for handling structured information, incorporating security and privacy mechanisms. CONVERGENCE subsumes the following areas of research: · definition of the VDI as a new fundamental unit of distribution and transaction; · content-centric networking functionality to complement or replace IP-address-based routing; · security and privacy protection mechanisms; · open-source middleware, including a community dictionary service to enable rich semantic searches; · applications, tested under real-life conditions. This book shows how CONVERGENCE allows publishing, searching and subscribing to any content. Creators can publish their content by wrapping it and its descriptions into a VDI, setting rights for other users

to access this content, monitor its use, and communicate with people using it; they may even update or revoke content previously published. Access to content is more efficient, as search engines exploit VDI metadata for indexing, and the network uses the content name to ensure users always access the copy closest to them. Every node in the network is a content cache; handover is easy; multicast is natural; peer-to-peer is built-in; time/space-decoupling is possible. Application developers can exploit CONVERGENCE's middleware and network without having to resort to proprietary/ad hoc solutions for common/supporting functionality. Operators can use the network more efficiently, better controlling information transfer and related revenues flows. Network design, operation and management are simplified by integrating diverse functions and avoiding patches and stopgap solutions. Whether as a text for graduate students working on the future of the Internet, or a resource for practitioners providing e-commerce or multimedia services, or scientists defining new technologies, CONVERGENCE will make a valuable contribution to the future shape of the Internet. This book contains the combined proceedings of the 4th International Conference on Ubiquitous Computing Application and Wireless Sensor Network (UCAWSN-15) and the 16th International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT-15). The combined proceedings present peer-reviewed contributions from academic and industrial researchers in fields including ubiquitous and context-aware computing, context-awareness reasoning and representation, location awareness services, and architectures, protocols and algorithms, energy, management and control of wireless sensor networks. The book includes the latest research results, practical

developments and applications in parallel/distributed architectures, wireless networks and mobile computing, formal methods and programming languages, network routing and communication algorithms, database applications and data mining, access control and authorization and privacy preserving computation. This book provides a comprehensive overview of the most relevant research and standardization results in the area of wireless networking for Industrial IoT, covering both critical and massive connectivity. Most chapters in this book are intended to serve as short tutorials of particular topics, highlighting the main developments and ideas, as well as giving an outlook of the upcoming research challenges. The book is divided into four parts. The first part focuses on challenges, enablers and standardization efforts for reliable low-latency communication in Industrial IoT networks. The next part focuses on massive IoT, which requires cost- and energy-efficient technology components to efficiently connect a massive number of low-cost IoT devices. The third part covers three enabling technologies in the context of Industrial IoT: Security, Machine Learning/Artificial Intelligence and Edge Computing. These enablers are applicable to both connectivity types, critical and massive IoT. The last part covers aspects of Industrial IoT related to connected transportation that are important in, for example, warehouse and port logistics, product delivery and transportation among industries. Presents a comprehensive guide to concepts and research challenges in wireless networking for Industrial IoT; Includes an introduction and overview of such topics as 3GPP standardization for Industrial IoT, Time Sensitive Networking, system dependability over wireless networks, energy-efficient wireless networks, IoT security, ML/AI for Industrial IoT and connected transportation systems;

Features contributions by well-recognized experts from both academia and industry. Information Centric Network(ICN) is not based on server location. It is purely information oriented. Instead of locating the server, ICN locates the information. Many of the disadvantages of current networks can be mitigated by ICN approach. It gives better performance than our current TCP/IP network in many ways including security. Various disadvantages of TCP/IP network as well as solutions to those disadvantages with approch of ICN are listed out in the book. This book constitutes the refereed proceedings of the 22nd International Symposium on Stabilization, Safety, and Security of Distributed Systems, SSS 2020, held in Austin, TX, USA, in November 2020. The 16 full papers, 7 short and 2 invited papers presented were carefully reviewed and selected from 44 submissions. The papers deal with the design and development of distributed systems with a focus on systems that are able to provide guarantees on their structure, performance, and/or security in the face of an adverse operational environment. We live in a digital world, where we use digital tools and smart devices to communicate over the Internet. In turn, an enormous amount of data gets generated. The traditional computing architectures are inefficient in storing and managing this massive amount of data. Unfortunately, the data cannot be ignored as it helps businesses to make better decisions, solve problems, understand performance, improve processes, and understand customers. Therefore, we need modern systems capable of handling and managing data efficiently. In the past few decades, many distributed computing paradigms have emerged, and we have noticed a substantial growth in the applications based on such emerging paradigms. Some well-known emerging computing

paradigms include cloud computing, fog computing, and edge computing, which have leveraged the increase in the volume of data being generated every second. However, the distributed computing paradigms face critical challenges, including network management and cyber security. We have witnessed the development of various networking models—IoT, SDN, and ICN—to support modern systems requirements. However, they are undergoing rapid changes and need special attention. The main issue faced by these paradigms is that traditional solutions cannot be directly applied to address the challenges. Therefore, there is a significant need to develop improved network management and cyber security solutions. To this end, this book highlights the challenges faced by emerging paradigms and presents the recent developments made to address the challenges. More specifically, it presents a detailed study on security issues in distributed computing environments and their possible solutions, followed by applications of medical IoT, deep learning, IoV, healthcare, etc. This book proposes the novel network envisions and framework design principles, in order to systematically expound the next generation vehicular networks, including the modelling, algorithms and practical applications. It focuses on the key enabling technologies to design the next generation vehicular networks with various vehicular services to realize the safe, convenient and comfortable driving. The next generation vehicular networks has emerged to provide services with a high quality of experience (QoE) to vehicles, where both better network maintainability and sustainability can be obtained than before. The framework design principles and related network architecture are also covered in this book. Then, the series of research topics are discussed including the reputation based content

centric delivery, the contract based mobile edge caching, the Stackelberg game model based computation offloading, the auction game based secure computation offloading, the bargain game based security protection and the deep learning based autonomous driving. Finally, the investigation, development and future works are also introduced for designing the next generation vehicular networks. The primary audience for this book are researchers, who work in computer science and electronic engineering. Professionals working in the field of mobile networks and communications, as well as engineers and technical staff who work on the development or the standard of computer networks will also find this book useful as a reference.

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