

Next Generation Data Communication Technologies

Emerging Trends



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Julia Schneider



Next Generation Data Communication Technologies Emerging Trends:

Next Generation Data Communication Technologies: Emerging Trends Saha, Debashis, Sridhar, Varadharajan, 2011-12-31 This book contains case studies theories and empirical research aimed to assist individuals and organizations in understanding the critical concepts of data networking and communications Provided by publisher **Digital Information and Communication Technology and Its Applications** Hocine Cherifi, Jasni Mohamad Zain, Eyas El-Qawasmeh, 2011-06-17 This two volume set CCIS 166 and 167 constitutes the refereed proceedings of the International Conference on Digital Information and Communication Technology and its Applications DICTAP 2011 held in Dijon France in June 2010 The 128 revised full papers presented in both volumes were carefully reviewed and selected from 330 submissions The papers are organized in topical sections on Web applications image processing visual interfaces and user experience network security ad hoc network cloud computing Data Compression Software Engineering Networking and Mobiles Distributed and Parallel processing social networks ontology algorithms multimedia e learning interactive environments and emergent technologies for e learning signal processing information and data management Internet of Things in TEXTILE TECHNOLOGY Er. Manasvi Kashyap, 2024-05-01 Internet of things in Textile Technology explores the dynamic intersection of two cutting edge domains the Internet of Things IoT and textile technology In this comprehensive guide readers embark on a journey through the innovative applications and transformative potential of integrating IoT into the textile industry From smart fabrics that monitor health metrics to intelligent production processes optimizing efficiency this book delves into the myriad ways IoT is reshaping every aspect of textile manufacturing design and consumption Through insightful case studies practical examples and expert insights readers gain a deep understanding of how IoT enabled textiles are revolutionizing industries enhancing user experiences and paving the way for a more connected sustainable future Whether you re a seasoned professional in textiles or an IoT enthusiast looking to explore its applications IoT in Textile Technology offers a compelling exploration of this exciting convergence of technology and innovation *Medical Big Data and Internet of Medical Things* Aboul Hassanien, Nilanjan Dey, Surekha Borra, 2018-10-25 Big data and the Internet of Things IoT play a vital role in prediction systems used in biological and medical applications particularly for resolving issues related to disease biology at different scales Modelling and integrating medical big data with the IoT helps in building effective prediction systems for automatic recommendations of diagnosis and treatment The ability to mine process analyse characterize classify and cluster a variety and wide volume of medical data is a challenging task There is a great demand for the design and development of methods dealing with capturing and automatically analysing medical data from imaging systems and IoT sensors Addressing analytical and legal issues and research on integration of big data analytics with respect to clinical practice and clinical utility architectures and clustering techniques for IoT data processing effective frameworks for removal of misclassified instances practicality of big data analytics methodological and technical issues potential of Hadoop in

managing healthcare data is the need of the hour This book integrates different aspects used in the field of healthcare such as big data IoT soft computing machine learning augmented reality organs on chip personalized drugs implantable electronics integration of bio interfaces and wearable sensors devices practical body area network BAN and architectures of web systems Key Features Addresses various applications of Medical Big Data and Internet of Medical Things in real time environment Highlights recent innovations designs developments and topics of interest in machine learning techniques for classification of medical data Provides background and solutions to existing challenges in Medical Big Data and Internet of Medical Things Provides optimization techniques and programming models to parallelize the computationally intensive tasks in data mining of medical data Discusses interactions advantages limitations challenges and future perspectives of IoT based remote healthcare monitoring systems Includes data privacy and security analysis of cryptography methods for the Web of Medical Things WoMT Presents case studies on the next generation medical chair electronic nose and pill cam are also presented

Fiber Networks in the New Century: Revolutionizing Communications Infrastructures Pasquale De Marco, 2025-04-11 Harness the power of fiber optics to build the networks of the future In this comprehensive guide you ll explore the technologies applications and future trends shaping the world of fiber networks From the fundamentals of fiber optic technology to the advanced techniques driving the next generation of networks this book provides a deep dive into this rapidly evolving field You ll gain a solid understanding of how light is transmitted through optical fibers and the advantages it offers over traditional copper cables We ll also delve into the intricacies of key technologies like SONET SDH ATM and DWDM explaining how they work and the role they play in enabling high speed data transmission Beyond the technical foundations you ll discover how fiber networks are transforming industries and societies From smart cities and healthcare to industrial automation and transportation we ll uncover the practical applications and real world impact of fiber optics Learn how fiber networks are enabling the Internet of Things IoT autonomous vehicles and other cutting edge technologies This book also explores the future of fiber networks providing insights into emerging trends and innovations that are pushing the boundaries of what is possible Discover how next generation optical fiber cables optical wireless communications and artificial intelligence AI are shaping the future of data transmission Whether you re a network engineer a business professional or simply someone fascinated by the latest advancements in communications technology this book is your essential guide to the world of fiber networks With its comprehensive coverage and engaging writing style this book will equip you with the knowledge and insights you need to understand the present and future of this transformative technology If you like this book write a review on google books

The Spectrum Chronicles Pasquale De Marco, This comprehensive guide provides readers with a thorough overview of the concepts technologies and preparation required for obtaining certifications in the field of communications From basic electronics to advanced topics in satellite wireless and fiber optic communication systems this immersive resource covers everything needed to excel in certification exams taken by

electronics technicians and communications professionals The book begins by introducing the history and purpose of licensing and certification examinations focusing on important organizations like the FCC ISCT and ETA It then covers fundamental electronics principles like electricity circuits and signals before delving into specific communication technologies like radio frequency digital and satellite communication Readers are guided through telecommunication networks fiber optics broadcasting systems and emerging trends like the Internet of Things Each chapter features real world applications highlighting how topics relate to practical scenarios Key terminology and concepts are reinforced through review questions exercises and chapter summaries The reader friendly style aims for simplicity over complexity keeping technical jargon to a minimum Diagrams illustrations and examples bring complex phenomena to life This pragmatic yet comprehensive guide empowers readers at every level Novice electronics technicians and engineers exploring the field will find a solid grounding in communication systems and licensing requirements Experienced professionals seeking certification renewals or expanded knowledge will benefit from detailed updates on advances in technologies standards and best practices Overall The Spectrum Chronicles provides an accessible yet in depth review of what readers need to know in order to navigate the constantly changing world of communications Whether preparing for an upcoming examination or simply aiming to stay competitive in a dynamic industry this updated and expanded guide delivers valuable insights and practical strategies that readers can put to immediate use

Recent Trends in Data Science and Soft Computing Faisal Saeed,Nadhmi Gazem,Fathey Mohammed,Abdelsalam Busalim,2018-09-08 This book presents the proceedings of the 3rd International Conference of Reliable Information and Communication Technology 2018 IRICT 2018 which was held in Kuala Lumpur Malaysia on July 23 24 2018 The main theme of the conference was Data Science AI and IoT Trends for the Fourth Industrial Revolution A total of 158 papers were submitted to the conference of which 103 were accepted and considered for publication in this book Several hot research topics are covered including Advances in Data Science and Big Data Analytics Artificial Intelligence and Soft Computing Business Intelligence Internet of Things IoT Technologies and Applications Intelligent Communication Systems Advances in Computer Vision Health Informatics Reliable Cloud Computing Environments Recent Trends in Knowledge Management Security Issues in the Cyber World and Advances in Information Systems Research Theories and Methods

Soft Computing Techniques in Connected Healthcare Systems Moolchand Sharma,Suman Deswal,Umesh Gupta,Mujahid Tabassum,Isah Lawal,2023-12-20 This book provides an examination of applications of soft computing techniques related to healthcare systems and can be used as a reference guide for assessing the roles of various techniques Soft Computing Techniques in Connected Healthcare Systems presents soft computing techniques and applications used in healthcare systems along with the latest advancements The authors examine how connected healthcare is the essence of combining a practical operative procedure of interconnectedness of electronic health records mHealth clinical informatics electronic data exchange practice management solutions and pharmacy management

The book focuses on different soft computing techniques such as fuzzy logic ANN and GA which will enhance services in connected health systems such as remote diagnosis and monitoring medication monitoring devices identifying and treating the underlying causes of disorders and diseases improved access to specialists and lower healthcare costs The chapters also examine descriptive predictive and social network techniques and discuss analytical tools and the important role they play in enhancing the services to connected healthcare systems Finally the authors address real time challenges with real world case studies to enhance the comprehension of topics This book is intended for under graduate and graduate students researchers and practicing professionals in the field of connected healthcare It provides an overview for beginners while also addressing professionals in the industry on the importance of soft computing approaches in connected healthcare systems

Metamaterials - Progress, Devices and Applications ,2025-07-23 This book serves as a guide for students researchers and faculty members in the field of metamaterials based devices presenting recent advances and trends in this subject The book comprises a total of five chapters providing in depth knowledge on numerical methods and the various properties and applications of metamaterials The significant applications considered are metamaterial based absorbers and communications devices Each chapter comprises a detailed background on the considered application recent work in the area a possible solution and future aspects

Sensor Technologies and Wireless Communications in Industry 5.0 Ramkumar K.R.,Bhupendra Singh,Lei Pan,Ankit Sharma,2025-10-29 The book explores the Internet of Things IoT landscape focusing on sensor technologies and wireless sensor communications It discusses challenges in establishing interconnected sensors network connectivity longevity and strategies for sustaining sensor networks in dynamic industrial environments The book also discusses issues like tracking objects geolocation and network coverage optimization and highlights the impact of artificial intelligence in sensor networks and the synergies between sensor technologies and wireless communications in Industry 5 0 Sensor Technologies and Wireless Communications in Industry 5 0 A Solution for Smart Manufacturing provides a thorough examination of the Internet of Things with a specific focus on sensor technologies and wireless sensor communications It delves into the latest advancements in sensor precision communication protocols and real world applications offering readers cutting edge insights into the rapidly evolving IoT landscape Recognizing the interdisciplinary nature of IoT this book serves as a bridge between technology engineering and data science It aligns itself with the Industry 5 0 paradigm and features contributions from top researchers in the field By anticipating emerging trends and future directions within the IoT field this book provides readers with valuable insights into the potential trajectories of sensor technologies and wireless communications Designed as a research tool and an educational resource for academic institutions this book is essential for researchers students and educators seeking up to date information on IoT technologies

Leveraging VANETs and Blockchain Technology for Urban Mobility Ponnusamy, Sivaram,Assaf, Mansour,Youssef, Baddi,Jeon, Gwanggil,Kalyanaraman, Swaminathan,2025-04-24 The integration of Vehicular Ad hoc Networks VANETs with

blockchain technology emerges as a transformative approach to enhancing urban mobility offering new solutions to the challenges of traffic management vehicle safety and data security in smart cities VANETs enable real time communication between vehicles and infrastructure creating a dynamic network to optimize traffic flow reduce congestion and improve safety by enabling autonomous vehicle interaction and instant data exchange When combined with blockchain technology this network gains a layer of decentralization and security ensuring data shared between vehicles traffic signals and other urban systems remains tamper proof and transparent Blockchain also facilitates secure and efficient transactions like toll payments or car sharing services and maintains a record of vehicle data including maintenance history or driving patterns offering new opportunities for vehicle lifecycle management insurance claims and regulatory compliance Together VANETs and blockchain could revolutionize urban mobility by creating a more efficient secure and sustainable transportation ecosystem driving the development of smarter safer cities Leveraging VANETs and Blockchain Technology for Urban Mobility explores the capabilities of VANET and blockchain technology to create a new intelligent urban transportation architecture It examines how transportation and infrastructure engineers can create secure efficient and safe urban mobility This book covers topics such as smart cities sustainability and waste management and is a useful resource for civil and mechanical engineers urban developers business owners academicians researchers and data scientists

Computational Automation for Water Security Ashutosh Kumar Dubey, Arun Lal Srivastav, Abhishek Kumar, Fausto Pedro Garcia Marquez, Dimitrios A Giannakoudakis, 2025-02-27 Computational Automation for Water Security Enhancing Water Quality Management is a comprehensive and insightful guide which explores the challenges posed by inefficient and outdated practices presenting innovative solutions to enhance decision making optimizing water treatment processes and ultimately improving environmental outcomes Through the coverage of advanced computational techniques such as data analysis machine learning and optimization strategies readers will gain a deep understanding of how computational automation can revolutionize decision making This book is an invaluable resource for professionals researchers and policymakers seeking to stay at the forefront of water quality management practices harnessing the power of computational automation for a cleaner healthier future Offers a holistic understanding of the application of computational automation in water quality management Contains practical and unique updates to help learners how to apply computational techniques to address water quality challenges Provides a comprehensive and multidisciplinary perspective on water quality management

Online Social Networks in Business Frameworks Sudhir Kumar Rathi, Bright Keswani, Rakesh Kumar Saxena, Sumit Kumar Kapoor, Sangita Gupta, Romil Rawat, 2024-09-17 This book presents a vital method for companies to connect with potential clients and consumers in the digital era of Online Social Networks OSNs utilizing the strength of well known social networks and AI to achieve success through fostering brand supporters generating leads and enhancing customer interactions There are currently 4.8 billion Online Social Network OSN users worldwide Online Social Networks in Business Frameworks

presents marketing through online social networks OSNs which is a potent method for companies of all sizes to connect with potential clients and consumers If visitors are not on OSN sites like Facebook Twitter and LinkedIn they are missing out on the fact that people discover learn about follow and purchase from companies on OSNs Excellent OSN advertising may help a company achieve amazing success by fostering committed brand supporters and even generating leads and revenue A type of digital advertising known as social media marketing SMM makes use of the strength of well known social networks to further advertise and establish branding objectives Nevertheless it goes beyond simply setting up company accounts and tweeting whenever visitors feel like it Preserving and improving profiles means posting content that represents the company and draws in the right audience such as images videos articles and live videos addressing comments shares and likes while keeping an eye on the reputation to create a brand network and following and interacting with followers clients and influencers

Corporate Risk Hedge Arestos Philoctetes, AI chatGPT, 2024-07-10 This story details the critical role of a Risk Hedge Administrator within a cybersecurity company covering all aspects from daily responsibilities to strategic long term planning Each section aims to provide insight into the comprehensive approach required to manage and mitigate risks effectively in the ever evolving field of cybersecurity This story encapsulates the essential role and multifaceted responsibilities of a Risk Hedge Administrator illustrating the strategic and operational depth required to navigate the complexities of modern cybersecurity In the dynamic and often volatile world of business companies face a myriad of risks that can significantly impact their operations financial health and overall success These risks range from market fluctuations and regulatory changes to unforeseen events such as natural disasters or geopolitical tensions Managing these risks effectively is crucial for sustaining growth and achieving strategic objectives This is where Company Risk Hedge comes into play Company Risk Hedge is a fictional enterprise that specializes in providing comprehensive risk management solutions to businesses across various industries The company leverages advanced analytics strategic insights and tailored financial instruments to help businesses identify assess and mitigate risks By doing so Company Risk Hedge empowers its clients to navigate uncertainties with confidence protect their assets and enhance their resilience against potential disruptions Company Risk Hedge helps businesses not only survive but thrive in an unpredictable environment The company's holistic approach ensures that clients are well equipped to handle both current challenges and future uncertainties making them more resilient and better positioned for long term success In essence Company Risk Hedge stands as a trusted partner in risk management offering expertise innovation and unwavering support to help businesses safeguard their futures

Innovations in Communication Networks: Sustainability for Societal and Industrial Impact Vikrant

Bhateja, Vazeerudeen Abdul Hameed, Siba K. Udgata, Ahmad Taher Azar, 2025-07-11 This book includes selected papers presented at the 5th International Conference on Data Engineering and Communication Technology ICDECT 2024 held at Asia Pacific University of Technology and Innovation APU Kuala Lumpur Malaysia during 28-29 September 2024 It features

advanced multidisciplinary research towards the design of smart computing information systems and electronic systems It also focuses on various innovation paradigms in system knowledge intelligence and sustainability which can be applied to provide viable solutions to diverse problems related to society the environment and industry *Efficient Data Handling for Massive Internet of Medical Things* Chinmay Chakraborty, Uttam Ghosh, Vinayakumar Ravi, Yogesh Shelke, 2021-09-01 This book focuses on recent advances and different research areas in multi modal data fusion under healthcare informatics and seeks out theoretical methodological well established and validated empirical work dealing with these different topics This book brings together the latest industrial and academic progress research and development efforts within the rapidly maturing health informatics ecosystem Contributions highlight emerging data fusion topics that support prospective healthcare applications The book also presents various technologies and concerns regarding energy aware and secure sensors and how they can reduce energy consumption in health care applications It also discusses the life cycle of sensor devices and protocols with the help of energy aware design production and utilization as well as the Internet of Things technologies such as tags sensors sensing networks and Internet technologies In a nutshell this book gives a comprehensive overview of the state of the art theories and techniques for massive data handling and access in medical data and smart health in IoT and provides useful guidelines for the design of massive Internet of Medical Things *Applications of AI for Interdisciplinary Research* Sukhpal Singh Gill, 2024-09-13 Applying artificial intelligence AI to new fields has made AI and data science indispensable to researchers in a wide range of fields The proliferation and successful deployment of AI algorithms are fuelling these changes which can be seen in fields as disparate as healthcare and emerging Internet of Things IoT applications Machine learning techniques and AI more broadly are expected to play an ever increasing role in the modelling simulation and analysis of data from a wide range of fields by the interdisciplinary research community Ideas and techniques from multidisciplinary research are being utilised to enhance AI hence the connection between the two fields is a two way street at a crossroads Algorithms for inference sampling and optimisation as well as investigations into the efficacy of deep learning frequently make use of methods and concepts from other fields of study Cloud computing platforms may be used to develop and deploy several AI models with high computational power The intersection between multiple fields including math science and healthcare is where the most significant theoretical and methodological problems of AI may be found To gather integrate and synthesise the many results and viewpoints in the connected domains refer to it as interdisciplinary research In light of this the theory techniques and applications of machine learning and AI as well as how they are utilised across disciplinary boundaries are the main areas of this research topic This book appraises the readers about the important and cutting edge aspects of AI applications for interdisciplinary research and guides them to apply their acquaintance in the best possible manner This book is formulated with the intent of uncovering the stakes and possibilities involved in using AI through efficient interdisciplinary applications The main objective of this book is to provide scientific and

engineering research on technologies in the fields of AI and data science and how they can be related through interdisciplinary applications and similar technologies This book covers various important domains such as healthcare the stock market natural language processing NLP real estate data security cloud computing edge computing data visualisation using cloud platforms event management systems IoT the telecom sector federated learning and network performance optimisation Each chapter focuses on the corresponding subject outline to offer readers a thorough grasp of the concepts and technologies connected to AI and data analytics and their emerging applications **Mobile Evolution** Sebastian

Thalanany,2015-03-02 This book presents insights interpretations concepts and interdependent views in the landscape of mobile connectivity and service that emphasize the significance of a harmonious interplay cooperation and coalescing of a variety of interdisciplinary domains of science and art Mobile Evolution Insights on Connectivity and Service explores the forward looking and enabling capabilities of mobile connectivity and service in the context of long term evolution LTE systems and multimedia services as viewed through a lens of human experience It provides information and guidelines pertaining to the strategies and technologies associated with the next generation mobile ecosystem **Application of**

Large Language Models (LLMs) for Software Vulnerability Detection Omar, Marwan,Zangana, Hewa Majeed,2024-11-01 Large Language Models LLMs are redefining the landscape of cybersecurity offering innovative methods for detecting software vulnerabilities By applying advanced AI techniques to identify and predict weaknesses in software code including zero day exploits and complex malware LLMs provide a proactive approach to securing digital environments This integration of AI and cybersecurity presents new possibilities for enhancing software security measures Application of Large Language Models LLMs for Software Vulnerability Detection offers a comprehensive exploration of this groundbreaking field These chapters are designed to bridge the gap between AI research and practical application in cybersecurity in order to provide valuable insights for researchers AI specialists software developers and industry professionals Through real world examples and actionable strategies the publication will drive innovation in vulnerability detection and set new standards for leveraging AI in cybersecurity *Battery-Free Sensor Networks for Sustainable*

Next-Generation IoT Connectivity Karthick, G.S.,2025-04-08 Battery free sensor networks emerge as a pivotal technology for enabling sustainable next generation Internet of Things IoT connectivity These networks leverage energy harvesting techniques such as solar thermal or radiofrequency RF energy to power sensors and devices eliminating the need for traditional batteries This reduces the environmental impact of battery disposal while extending the operational lifetime of IoT devices making them more reliable and cost effective By harnessing energy sources battery free sensor networks hold the potential to revolutionize applications in smart cities industrial monitoring healthcare and agriculture contributing to the development of energy efficient self sustaining IoT systems Battery Free Sensor Networks for Sustainable Next Generation IoT Connectivity explores contemporary developments in battery free sensor networks and their pivotal role in advancing

sustainable connectivity within the next generation IoT landscape It delves into the latest advancements challenges and applications of battery free sensor technologies offering insights into their design principles energy harvesting techniques communication protocols and deployment strategies This book covers topics such as healthcare monitoring sensor technology and sustainability and is a useful resource for engineers scientists environmentalists business owners academicians researchers and security professionals

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