

Network Architectures in Internet of Vehicles (IoV): Review, Protocols Analysis, Challenges and Issues.

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Abstract. Since some decades ago, the evolution of the internet continues to revolutionize many aspects of human life. It started by connecting computers, then smartphones before it becomes generalized to connecting everything which gives birth to the Internet of Things (IoT) paradigm. Thanks to the telecommunication and technologies' advancements, vehicles are now able to have internet access and communications capabilities, thus, making communications networks called Vehicular Ad hoc Networks (VANETs). The Internet of Vehicles is, therefore, an evolution of VANETs where IoT is applied and in which the main component is the vehicle. Besides the many opportunities that IoV presents, there are still many challenges and issues that must be considered with great attention such as efficient and reliable network architectures that should provide an efficient IoV deployment. This is why, in this paper, we have made our contribution by establishing a review of existing novel IoV architecture solutions and we further propose a protocol stack analysis of these architectures.

Keywords: IOV - VANETs - D2D - Network Architectures - C-ITS.

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Smart Mobility and Intelligent Transportation Systems for Commercial and Hazardous Vehicles Naga Swetha Pasupuleti, T. Poongodi, Balamurugan Balusamy, 2024-11-29 This new volume considers the use of smart technologies in commercial and hazardous vehicles looking at the challenges and solutions to transportation issues that can be solved with such intelligent applications as artificial intelligence Internet of Things neural networks blockchain machine learning big data etc The book illustrates the use these smart technologies for vehicle pedestrian detection in the planning of smart cities for traffic patterns for the improvement of transportation power stations for smart railway cargo management systems and more

Intelligent Network Management and Control Badr Benmammar, 2021-04-13 The management and control of networks can no longer be envisaged without the introduction of artificial intelligence at all stages Intelligent Network Management and Control deals with topical issues related mainly to intelligent security of computer networks deployment of security services in SDN software defined networking optimization of networks using artificial intelligence techniques and multi criteria optimization methods for selecting networks in a heterogeneous environment This book also focuses on selecting cloud computing services intelligent unloading of calculations in the context of mobile cloud computing intelligent resource management in a smart grid cloud system for better energy efficiency new architectures for the Internet of Vehicles IoV the application of artificial intelligence in cognitive radio networks and intelligent radio input to meet the on road communication needs of autonomous vehicles

Semantic IoT: Theory and Applications Rajiv Pandey, Marcin Paprzycki, Nidhi Srivastava, Subhash Bhalla, Katarzyna Wasielewska-Michniewska, 2021-04-12 This book is focused on an emerging area i e combination of IoT and semantic technologies which should enable breaking the silos of local and or domain specific IoT deployments Taking into account the way that IoT ecosystems are realized several challenges can be identified Among them of definite importance are this list is obviously not exhaustive i How to provide common representation and or shared understanding of data that will enable analysis across systematically growing ecosystems ii How to build ecosystems based on data flows iii How to track data provenance iv How to ensure manage trust v How to search for things data within ecosystems vi How to store data and assure its quality Semantic technologies are often considered among the possible ways of addressing these and other related questions More precisely in academic research and in industrial practice semantic technologies materialize in the following contexts this list is also not exhaustive but indicates the breadth of scope of semantic technology usability i representation of artefacts in IoT ecosystems and IoT networks ii providing interoperability between heterogeneous IoT artefacts ii representation of provenance information enabling provenance tracking trust establishment and quality assessment iv semantic search enabling flexible access to data originating in different places across the ecosystem v flexible storage of heterogeneous data Finally Semantic Web Web of Things and Linked Open Data are architectural paradigms with which the aforementioned solutions are to be integrated to

provide production ready deployments **Intelligent Vehicular Networks and Communications** Anand Paul,Naveen Chilamkurti,Alfred Daniel,Seungmin Rho,2016-09-02 Intelligent Vehicular Network and Communications Fundamentals Architectures and Solutions begins with discussions on how the transportation system has transformed into today s Intelligent Transportation System ITS It explores the design goals challenges and frameworks for modeling an ITS network discussing vehicular network model technologies mobility management architectures and routing mechanisms and protocols It looks at the Internet of Vehicles the vehicular cloud and vehicular network security and privacy issues The book investigates cooperative vehicular systems a promising solution for addressing current and future traffic safety needs also exploring cooperative cognitive intelligence with special attention to spectral efficiency spectral scarcity and high mobility In addition users will find a thorough examination of experimental work in such areas as Controller Area Network protocol and working function of On Board Unit as well as working principles of roadside unit and other infrastructural nodes Finally the book examines big data in vehicular networks exploring various business models application scenarios and real time analytics concluding with a look at autonomous vehicles Proposes cooperative cognitive intelligent vehicular networks Examines how intelligent transportation systems make more efficient transportation in urban environments Outlines next generation vehicular networks technology **5G Multimedia Communication** Zoran S. Bojkovic,Dragorad A. Milovanovic,Tulsi Pawan Fowdur,2020-10-27 In bringing to the readers the book 5G Multimedia Communication Technology Multiservices and Deployment the aim is to present current work and direction on the challenging subject of multimedia communications with theoretical and practical roots The past two decades have witnessed an extremely fast evolution of mobile cellular network technology The fifth generation of mobile wireless systems has achieved the first milestone toward finalization and deployment by 2020 This is vital to the development of future multimedia communications Also it is necessary to consider 5G technology from the performance point of view by analyzing network capabilities to the operator and to the end user in terms of data rate capacity coverage energy efficiency connectivity and latency The book is divided into three major parts with each part containing four to seven chapters Critical enabling technology Multiservices network Deployment scenarios The first part discusses enabling technologies such as green communication channel modeling massive and distributed MIMO and ML based networks In the second part different methodologies and standards for multiservices have been discussed Exclusive chapters have been dedicated to each of the open research challenges such as multimedia operating in 5G environment network slicing optimization mobile edge computing mobile video multicast broadcast integrated satellite and drone communication The third part paved the way to deployment scenarios for different innovative services including integration of a multienergy system in smart cities intelligent transportation systems 5G connectivity in the transport sector healthcare services 5G edge based video surveillance and challenges of connectivity for massive IoT in 5G and beyond systems The book is written by experts in the field who introduced scientific and engineering concepts covering the 5G multimedia

communication areas The book can be read cover to cover or selectively in the areas of interest for the readers Generally the book is intended for novel readers who could benefit from understanding general concepts practitioners who seek guidance into the field and senior level as well as graduate level engineering students in understanding the process of today s wireless multimedia communications *Vehicular Communications for Smart Cars* Niaz Chowdhury, Lewis Mackenzie, 2021-12-30

This book covers a wide range of topics from the smart transportation domain It discusses protocols applications and security concerns in various vehicular networks using examples and easy to understand figures The first four chapters focus on vehicular network protocols and applications while the remaining four chapters incorporate security trust and privacy issues with examples from real life cases The book concludes with a vision of what to expect in the near future and will be an invaluable resource for anybody interested in this nascent technology and its variegated applications Dr Niaz Chowdhury is a postdoctoral research associate at the Knowledge Media Institute the Open University in England Dr Lewis M Mackenzie is a senior lecturer in computing science at the University of Glasgow *Intelligent Systems and Learning Data Analytics in Online Education* Santi Caballé, Stavros N. Demetriadis, Eduardo Gómez-Sánchez, Pantelis M. Papadopoulos, Armin Weinberger, 2021-06-15

Intelligent Systems and Learning Data Analytics in Online Education provides novel artificial intelligence AI and analytics based methods to improve online teaching and learning This book addresses key problems such as attrition and lack of engagement in MOOCs and online learning in general This book explores the state of the art of artificial intelligence software tools and innovative learning strategies to provide better understanding and solutions to the various challenges of current e learning in general and MOOC education In particular *Intelligent Systems and Learning Data Analytics in Online Education* shares stimulating theoretical and practical research from leading international experts This publication provides useful references for educational institutions industry academic researchers professionals developers and practitioners to evaluate and apply Presents the application of innovative AI techniques to collaborative learning activities Offers strategies to provide automatic and effective tutoring to students activities Offers methods to collect analyze and correctly visualize learning data in educational environments **Reinventing Technological Innovations with Artificial Intelligence** Adarsh Garg, 2023-09-22

Reinventing Technological Innovations with Artificial Intelligence delves into the transformative impact of Augmented and Virtual Reality AVR technology across industries The book explores the merging of real and digital worlds paving the way for personalized experiences in areas such as tourism marketing education and more With the potential to redefine business practices and societal norms in the era of Industry 4 0 AVR technologies hold untapped potential beyond gaming and entertainment This volume presents a comprehensive overview of the current landscape challenges and prospects of integrating AVR with Artificial Intelligence AI for innovation and sustainability in various domains The book presents 11 edited chapters contributed by technology and innovation experts that explore applications of AI AR and VR technologies in different sectors in both public and private sectors The editors have included

reviews of technologies that impact human resource management corporate social responsibility healthcare supply chain and criminal investigation The reviews also highlight the role of AI in sustainable agriculture and smart cities Key Features Unveils the role of AVR in transforming real surroundings into digitally enhanced personal experiences Explores AVR s applications beyond gaming in diverse sectors like marketing construction education and more Discusses challenges such as technical limitations high costs and resistance to adopting AVR Addresses the need to enhance the reliability and effectiveness of AVR technologies in various industries Provides a comprehensive perspective on AI innovations AR and VR technologies with real world examples The book is an informative reference for researchers professionals and experts in technology innovation who are interested in the convergence of Augmented and Virtual Reality with AI for practical applications in diverse industries Cooperatively Interacting Vehicles Christoph Stiller,Matthias Althoff,Christoph Burger,Barbara Deml,Lutz Eckstein,Frank Flemisch,2024-08-02 This open access book explores the recent developments automated driving and Car2x communications are opening up attractive opportunities future mobility The DFG priority program Cooperatively Interacting Automobiles has focused on the scientific foundations for communication based automated cooperativity in traffic Communication among traffic participants allows for safe and convenient traffic that will emerge in swarm like flow This book investigates requirements for a cooperative transport system motion generation that is safe and effective and yields social acceptance by all road users as well as appropriate system architectures and robust cooperative cognition For many years traffic will not be fully automated but automated vehicles share their space with manually driven vehicles two wheelers pedestrians and others Such a mixed traffic scenario exhibits numerous facets of potential cooperation Automated vehicles must understand basic principles of human interaction in traffic situations Methods for the anticipation of human movement as well as methods for generating behavior that can be anticipated by others are required Explicit maneuver coordination among automated vehicles using Car2X communications allows generation of safe trajectories within milliseconds even in safety critical situations in which drivers are unable to communicate and react whereas today s vehicles delete their information after passing through a situation cooperatively interacting automobiles should aggregate their knowledge in a collective data and information base and make it available to subsequent traffic

Collective Intelligence and E-Learning 2.0: Implications of Web-Based Communities and Networking Yang, Harrison Hao,Yuen, Steve Chi-Yin,2009-08-31 This book provides a useful reference to the latest advancements in the area of educational technology and e learning Provided by publisher Handbook of Artificial Intelligence and Robotic Process Automation Al Naqvi,J. Mark Munoz,2020-11-27 President Putin s explicit declaration that the country that makes progress in artificial intelligence will rule the world has launched a new race for dominance In this era of cognitive competition and total automation every country understands that it must rapidly adopt AI or go bust To stay competitive a country must have a strategy But how should a government proceed What areas it must focus on Where should it even start This book provides

answers to these important yet pertinent questions and more Presenting the viewpoints of global experts and thought leaders on key issues relating to AI and government policies this book directs us to the future

Health Information Governance in a Digital Environment

Heather Grain, 2013-09-15 Delivering the desired benefits from using information technology in healthcare requires a high degree of data standardization effective governance and semantic interoperability between systems in the health industry Corporate chief executive officers CEOs and company boards need to be more aware of their governance responsibility This publication explains these concepts to assist the reader to collaboratively work with others to meet these challenges With contributions from internationally distinguished authors this book is a valuable cutting edge resource for anyone working in or for the health industry today and especially for Policy and decision makers Healthcare professionals Health information managers Health informaticians and ICT professionals about Data governance Semantic interoperability IT in health care Information security governance The book is suitable for use as a basic text or reference supporting professional undergraduate and postgraduate curricula preparing students for practice as health or IT professionals working in today's healthcare system

Pro-active Dynamic Vehicle Routing Francesco Ferrucci, 2013-03-14

This book deals with transportation processes denoted as the Real time Distribution of Perishable Goods RDOPG The book presents three contributions that are made to the field of transportation First a model considering the minimization of customer inconvenience is formulated Second a pro active real time control approach is proposed Stochastic knowledge is generated from past request information by a new forecasting approach and is used in the pro active approach to guide vehicles to request likely areas before real requests arrive there Various computational results are presented to show that in many cases the pro active approach is able to achieve significantly improved results Moreover a measure for determining the structural quality of request data sets is also proposed The third contribution of this book is a method that is presented for considering driver inconvenience aspects which arise from vehicle en route diversion activities Specifically this method makes it possible to restrict the number of performed vehicle en route diversion activities

A Fusion of Artificial Intelligence and Internet of Things for Emerging Cyber Systems Pardeep Kumar, Ahmed Jabbar Obaid, Korhan Cengiz, Ashish Khanna, Valentina Emilia Balas, 2021-08-23 This book aims at offering a unique collection of ideas and experiences mainly focusing on the main streams and merger of Artificial Intelligence AI and the Internet of Things IoT for a wide slice of the communication and networking community In the era when the world is grappling with many unforeseen challenges scientists and researchers are envisioning smart cyber systems that guarantee sustainable development for a better human life The main contributors that destined to play a huge role in developing such systems among others are AI and IoT While AI provides intelligence to machines and data by identifying patterns developing predictions and detecting anomalies IoT performs as a nerve system by connecting a huge number of machines and capturing an enormous amount of data AI enabled IoT therefore redefines the way industries businesses and economies function with increased automation and efficiency and

reduced human interaction and costs This book is an attempt to publish innovative ideas emerging trends implementation experience and use cases pertaining to the merger of AI and IoT The primary market of this book is centered around students researchers academicians industrialists entrepreneurs and professionals working in electrical computer engineering IT telecom electronic engineering and related fields The secondary market of this book is related to individuals working in the fields such as finance management mathematics physics environment mechatronics and the automation industry

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

Towards Connected and Autonomous Vehicle Highways Umar Zakir Abdul Hamid, Fadi Al-Turjman, 2021-06-17 This book combines comprehensive multi angle discussions on fully connected and automated vehicle highway implementation It covers the current progress of the works towards autonomous vehicle highway development which encompasses the discussion on the technical social and policy as well as security aspects of Connected and Autonomous Vehicles CAV topics This in return will be beneficial to a vast amount of readers who are interested in the topics of CAV Automated Highway and Smart City among many others Topics include but are not limited to Autonomous Vehicle in the Smart City Automated Highway Smart Cities Transportation Mobility as a Service Intelligent Transportation Systems Data Management of Connected and Autonomous Vehicle Autonomous Trucks and Autonomous Freight Transportation Brings together contributions discussing the latest research in full automated highway implementation Discusses topics such as autonomous vehicles intelligent transportation systems and smart highways Features contributions from researchers academics and professionals from a broad perspective

Advances in Vehicular Ad-Hoc Networks: Developments and Challenges Watfa, Mohamed, 2010-05-31 This book tackles the prevalent research challenges that hinder a fully deployable vehicular network presenting a unified treatment of the various aspects of VANETs and is essential for not only university professors but also for researchers working in the automobile industry Provided by publisher

Game AI Pro 2 Steven Rabin, 2015-04-17 *Game AI Pro2* Collected Wisdom of Game AI Professionals presents cutting edge tips tricks and techniques for artificial intelligence AI in games drawn from developers of shipped commercial games as well as some of the best known academics in the field It contains knowledge advice hard earned wisdom and insights gathered from across the com

Artificial Intelligence in Forecasting Sachi Mohanty, Preethi Nanjundan, Tejaswini Kar, 2024-07-19 Forecasting deals with the uncertainty of the future To be effective forecasting models

should be timely available accurate reliable and compatible with existing database Accurate projection of the future is of vital importance in supply chain management inventory control economic condition technology growth trend social change political change business weather forecasting stock price prediction earthquake prediction etc AI powered tools and techniques of forecasting play a major role in improving the projection accuracy The software running AI forecasting models use machine learning to improve accuracy The software can analyse the past data and can make better prediction about the future trends with higher accuracy and confidence that favours for making proper future planning and decision In other words accurate forecasting requires more than just the matching of models to historical data The book covers the latest techniques used by managers in business today discover the importance of forecasting and learn how it s accomplished Readers will also be familiarised with the necessary skills to meet the increased demand for thoughtful and realistic forecasts

Building the Hyperconnected Society- Internet of Things Research and Innovation Value Chains, Ecosystems and Markets Ovidiu Vermesan, Peter Friess, 2022-09-01 This book aims to provide a broad overview of various topics of Internet of Things IoT ranging from research innovation and development priorities to enabling technologies nanoelectronics cyber physical systems architecture interoperability and industrial applications All this is happening in a global context building towards intelligent interconnected decision making as an essential driver for new growth and co competition across a wider set of markets 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 research to technological innovation validation and deployment The book builds on the ideas put forward by the European Research Cluster on the Internet of Things Strategic Research and Innovation Agenda and presents global views and state of the art results on the challenges facing the research innovation development and deployment of IoT in future years The concept of IoT could disrupt consumer and industrial product markets generating new revenues and serving as a growth driver for semiconductor networking equipment and service provider end markets globally This will create new application and product end markets change the value chain of companies that creates the IoT technology and deploy it in various end sectors while impacting the business models of semiconductor software device communication and service provider stakeholders The proliferation of intelligent devices at the edge of the network with the introduction of embedded software and app driven hardware into manufactured devices and the ability through embedded software hardware developments to monetize those device functions and features by offering novel solutions could generate completely new types of revenue streams Intelligent and IoT devices leverage software software licensing entitlement management and Internet connectivity in ways that address many of the societal challenges that we will face in the next decade

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