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Xuemin (Sherman) Shen

Capacity Analysis of Vehicular Communication Networks

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Vehicular Communication Springerbriefs Electrical Engineering

Anshul Verma,Pradeepika Verma,Sanjay Kumar Dhurandher,Isaac Woungang

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Capacity Analysis of Vehicular Communication Networks Ning Lu,Xuemin (Sherman) Shen,2013-09-21 This SpringerBrief focuses on the network capacity analysis of VANETs a key topic as fundamental guidance on design and deployment of VANETs is very limited Moreover unique characteristics of VANETs impose distinguished challenges on such an investigation This SpringerBrief first introduces capacity scaling laws for wireless networks and briefly reviews the prior arts in deriving the capacity of VANETs It then studies the unicast capacity considering the socialized mobility model of VANETs With vehicles communicating based on a two hop relaying scheme the unicast capacity bound is derived and can be applied to predict the throughput of real world scenarios of VANETs The downlink capacity of VANETs is also investigated in which access infrastructure is deployed to provide pervasive Internet access to vehicles Different alternatives of wireless access infrastructure are considered A lower bound of downlink capacity is derived for each type of access infrastructure The last section of this book presents a case study based on a perfect city grid to examine the capacity cost trade offs of different deployments since the deployment costs of different access infrastructure are highly variable *Mobility Modeling for Vehicular Communication Networks* Khadige Abboud,Weihua Zhuang,2016-02-19 This brief presents a stochastic microscopic mobility model that describes the temporal changes of intervehicle distances The model is consistent with simulated and empirical vehicle traffic patterns Using stochastic lumpability methods the proposed mobility model is mapped into an aggregated mobility model that describes the mobility of a group of vehicles In addition the proposed mobility model is used to analyze the spatiotemporal VANET topology Two metrics are proposed to characterize the impact of vehicle mobility on VANET topology the time period between successive changes in communication link state connection and disconnection and the time period between successive changes in node s one hop neighborhood Using the proposed lumped group mobility model the two VANET topology metrics are probabilistically characterized for different vehicular traffic flow conditions Furthermore the limiting behavior of a system of two hop vehicles and the overlap state of their coverage ranges is modeled and the steady state number of common vehicle neighbors between the two vehicles is approximately derived The proposed mobility model will facilitate mathematical analysis in VANETs The spatiotemporal VANET topology analysis provides a useful tool for the development of mobility aware vehicular network protocols Mobility Modeling for Vehicular Communication Networks is designed for researchers developers and professionals involved with vehicular communications It is also suitable for advanced level students interested in communications transport infrastructure and infotainment applications *Cooperative Vehicular Communications in the Drive-thru Internet* Haibo Zhou,Lin Gui,Quan Yu,Xuemin (Sherman) Shen,2015-07-21 This brief presents a unified analytical framework for the evaluation of drive thru Internet performance and accordingly proposes an optimal spatial access control management approach A comprehensive overview and in depth discussion of the research literature is included It summarizes the main concepts and methods and highlights

future research directions The brief also introduces a novel cooperative vehicular communication framework together with a delicate linear cluster formation scheme and low delay content forwarding approach to provide a flexible and efficient vehicular content distribution in the drive thru Internet The presented medium access control and vehicular content distribution related research results in this brief provide useful insights for the design approach of Wi Fi enabled vehicular communications and it motivates a new line of thinking for the performance enhancements of future vehicular networking Advanced level students researchers and professionals interested in vehicular networks or coordinated network sharing will find Cooperative Vehicular Communications in the Drive thru Internet a valuable reference Opportunistic Spectrum Utilization in Vehicular Communication Networks Nan Cheng,Xuemin (Sherman) Shen,2015-08-04 This brief examines current research on improving Vehicular Networks VANETs examining spectrum scarcity due to the dramatic growth of mobile data traffic and the limited bandwidth of dedicated vehicular communication bands and the use of opportunistic spectrum bands to mitigate congestion It reviews existing literature on the use of opportunistic spectrum bands for VANETs including licensed and unlicensed spectrum bands and a variety of related technologies such as cognitive radio WiFi and device to device communications Focused on analyzing spectrum characteristics designing efficient spectrum exploitation schemes and evaluating the date delivery performance when utilizing different opportunistic spectrum bands the results presented in this brief provide valuable insights on improving the design and deployment of future VANETs

Heterogeneous Vehicular Networks Kan Zheng,Lin Zhang,Wei Xiang,Wenbo Wang,2016-03-18 This brief examines recent developments in the Heterogeneous Vehicular NETworks HETVNETs integrating cellular networks with Dedicated Short Range Communication DSRC for meeting the communications requirements of the Intelligent Transport System ITS services Along with a review of recent literature a unified framework of the HetVNET is presented The brief focuses on introducing efficient MAC mechanisms for vehicular communications including channel access protocols broadcast multicast protocols the location based channel congestion control scheme and the content based resource allocation scheme The cooperative communication between vehicles is discussed This brief concludes with a discussion on future research directions and provides the readers with useful insights into the future designs in the HetVNETs to motivate new ideas for performance improvements in vehicular networks Dynamic Spectrum Access for Wireless Networks Danda B. Rawat,Min Song,Sachin Shetty,2015-03-09 This SpringerBrief presents adaptive resource allocation schemes for secondary users for dynamic spectrum access DSA in cognitive radio networks CRNs by considering Quality of Service requirements admission control power rate control interference constraints and the impact of spectrum sensing or primary user interruptions It presents the challenges motivations and applications of the different schemes The authors discuss cloud assisted geolocation aware adaptive resource allocation in CRNs by outsourcing computationally intensive processing to the cloud Game theoretic approaches are presented to solve resource allocation problems in CRNs Numerical results are presented to evaluate the

performance of the proposed methods Adaptive Resource Allocation in Cognitive Radio Networks is designed for professionals and researchers working in the area of wireless networks Advanced level students in electrical engineering and computer science especially those focused on wireless networks will find this information helpful *Managing Electric Vehicle Power* Sam Davis,2020-08-31 Power management involves all the power consumed in an electric vehicle EV so it impacts the vehicle s performance safety and driving range To provide these vehicle characteristics power management Ensures that the proper power voltage and current are applied to each electronic circuit Ensures that there is isolation between low voltage and highvoltage HV circuits Offers power circuit protection against electrical disturbances that can affect internal or external circuits Managing Electric Vehicle Power provides complete coverage for understanding how best to utilize the primary power source across all the EV s Electric Control Units Readers will also be introduced to the qualification standards of the Automotive Electronics Council AEC AEC standards are a one time qualification that typically takes place at the end of the development cycle *Emerging Trends in Communication Networks* Syed Faraz Hasan,2014-06-06 This book covers the state of the art in communication networks with the help of illustrative diagrams and recent references published in reputed journals and magazines The book gives readers a glimpse into the next generation of communication networks It explores topics that are currently in the research phase and or are expected to be deployed in recent future such as LTE networks and IPv6 networks This book is written for students researchers who wish to come up to date with the recent trends in telecommunications Opportunistic Networks Anshul Verma,Pradeepika Verma,Sanjay Kumar Dhurandher,Isaac Woungang,2021-08-18 The opportunistic network is an emerging and recent area of research To make this research area more adaptable for practical and industrial use there is a need to further investigate several research challenges in all aspects of opportunistic networks Therefore Opportunistic Networks Fundamentals Applications and Emerging Trends provides theoretical algorithmic simulation and implementation based research developments related to fundamentals applications and emerging research trends in opportunistic networks The book follows a theoretical approach to describe fundamentals to beginners and incorporates a practical approach depicting the implementation of real life applications to intermediate and advanced readers This book is beneficial for academicians researchers developers and engineers who work in or are interested in the fields related to opportunistic networks delay tolerant networks and intermittently connected ad hoc networks This book also serves as a reference book for graduate and postgraduate courses in computer science computer engineering and information technology streams **Cooperative Spectrum Sensing and Resource Allocation Strategies in Cognitive Radio Networks** Xavier Fernando,Ajmery Sultana,Sattar Hussain,Lian Zhao,2018-05-22 Cognitive radio networks CRN will be widely deployed in the near future and this SpringerBrief covers some important aspects of it as well as highlighting optimization strategies in Resource Allocation and Spectrum Sensing in CRNs The cognitive approach in radio access is introduced in the first part of this SpringerBrief and then next the benefits of

cooperative spectrum sensing are highlighted and a framework for studying it under realistic channel conditions is described New exact closed form expressions for average false alarm probability and average detection probability are derived in this scenario A novel approximation to alleviate the computational complexity of the proposed models are also discussed Once the spectrum opportunities are identified efficient and systematic resource allocation RA shall be performed The second part of this SpringerBrief describes the taxonomy for the RA process in CRN A comprehensive overview of the optimization strategies of the CRN RA is also provided The device to device D2D communication scenario is discussed then as a case study and various optimization strategies for the application of the CR technology in the D2D realm is studied The application of advanced geometric water filling GWF approach in CRN D2D environment for optimum resource allocation is presented in detail Numerical results provide more insight quantitatively Overall this book is suitable for a wide audience that include students faculty and researchers in wireless communication area and professionals in the wireless service industry

Sensing Vehicle Conditions for Detecting Driving Behaviors Jiadi Yu,Yingying Chen,Xiangyu Xu,2018-04-18 This SpringerBrief begins by introducing the concept of smartphone sensing and summarizing the main tasks of applying smartphone sensing in vehicles Chapter 2 describes the vehicle dynamics sensing model that exploits the raw data of motion sensors i e accelerometer and gyroscope to give the dynamic of vehicles including stopping turning changing lanes driving on uneven road etc Chapter 3 detects the abnormal driving behaviors based on sensing vehicle dynamics Specifically this brief proposes a machine learning based fine grained abnormal driving behavior detection and identification system D3 to perform real time high accurate abnormal driving behaviors monitoring using the built in motion sensors in smartphones As more vehicles taking part in the transportation system in recent years driving or taking vehicles have become an inseparable part of our daily life However increasing vehicles on the roads bring more traffic issues including crashes and congestions which make it necessary to sense vehicle dynamics and detect driving behaviors for drivers For example sensing lane information of vehicles in real time can be assisted with the navigators to avoid unnecessary detours and acquiring instant vehicle speed is desirable to many important vehicular applications Moreover if the driving behaviors of drivers like inattentive and drunk driver can be detected and warned in time a large part of traffic accidents can be prevented However for sensing vehicle dynamics and detecting driving behaviors traditional approaches are grounded on the built in infrastructure in vehicles such as infrared sensors and radars or additional hardware like EEG devices and alcohol sensors which involves high cost The authors illustrate that smartphone sensing technology which involves sensors embedded in smartphones including the accelerometer gyroscope speaker microphone etc can be applied in sensing vehicle dynamics and driving behaviors Chapter 4 exploits the feasibility to recognize abnormal driving events of drivers at early stage Specifically the authors develop an Early Recognition system ER which recognize inattentive driving events at an early stage and alert drivers timely leveraging built in audio devices on smartphones An overview of the state of the art research is presented in chapter 5 Finally the

conclusions and future directions are provided in Chapter 6 Dynamic Spectrum Auction in Wireless Communication Yanjiao Chen,Qian Zhang,2015-02-06 This brief explores current research on dynamic spectrum auctions focusing on fundamental auction theory characteristics of the spectrum market spectrum auction architecture and possible auction mechanisms The brief explains how dynamic spectrum auctions which enable new users to gain spectrum access and existing spectrum owners to obtain financial benefits can greatly improve spectrum efficiency by resolving the artificial spectrum shortage It examines why operators and users face significant challenges due to specialty of the spectrum market and the related requirements imposed on the auction mechanism design Concise and up to date Dynamic Spectrum Auction in Wireless Communication is designed for researchers and professionals in computer science or electrical engineering Students studying networking will also find this brief a valuable resource Innovations in Electrical and Electronic Engineering Saad Mekhilef,Rabindra Nath Shaw,Pierluigi Siano,2022-04-13 The book features selected high quality papers presented at International Conference on Electrical and Electronics Engineering ICEEE 2022 jointly organized by University of Malaya and Bharath Institute of Higher Education and Research India during January 8 9 2022 at NCR New Delhi India The book focuses on current development in the fields of electrical and electronics engineering The book covers electrical engineering topics power and energy including renewable energy power electronics and applications control and automation and instrumentation and covers the areas of robotics artificial intelligence and IoT electronics devices circuits and systems wireless and optical communication RF and microwaves VLSI and signal processing The book is beneficial for readers from both academia and industry **Safety, Security and Privacy for Cyber-Physical Systems** Riccardo M.G. Ferrari,André M. H. Teixeira,2021-06-08 This book presents an in depth overview of recent work related to the safety security and privacy of cyber physical systems CPSs It brings together contributions from leading researchers in networked control systems and closely related fields to discuss overarching aspects of safety security and privacy characterization of attacks and solutions to detecting and mitigating such attacks The book begins by providing an insightful taxonomy of problems challenges and techniques related to safety security and privacy for CPSs It then moves through a thorough discussion of various control based solutions to these challenges including cooperative fault tolerant and resilient control and estimation detection of attacks and security metrics watermarking and encrypted control privacy and a novel defense approach based on deception The book concludes by discussing risk management and cyber insurance challenges in CPSs and by presenting the future outlook for this area of research as a whole Its wide ranging collection of varied works in the emerging fields of security and privacy in networked control systems makes this book a benefit to both academic researchers and advanced practitioners interested in implementing diverse applications in the fields of IoT cooperative autonomous vehicles and the smart cities of the future **Reliability Assessment of Tethered High-altitude Unmanned Telecommunication Platforms** Vladimir M. Vishnevsky,Dharmaraja Selvamuthu,Vladimir Rykov,Dmitry V. Kozyrev,Nika Ivanova,Achyutha

Krishnamoorthy,2024-03-08 This book provides a systematic presentation of the major results in the field of the theory of k out of n systems obtained in recent years and their applications for the reliability assessment of high altitude unmanned platforms Mathematical models methods and algorithms presented in the book will make a significant contribution to the development of reliability theory and the theoretical foundations of unmanned UAV based aerial communications networks in the framework of the concept of creating the 5G and beyond networks The book gives a description of new mathematical methods and approaches based on decomposable semi regenerative processes simulation and machine learning methods and inventory models to the study of the complex k out of n systems which makes it possible to carry out numerical calculations of reliability indicators Organized into five chapters each chapter begins with a summary of the main definitions andresults contained in the chapter The content of this book is based on the original results developed by the authors many of which appear for the first time in book form *Deterministic Car-Following Traffic Models* Rifat Sipahi,Silviu-Iulian Niculescu,Fatihcan M. Atay,2024-11-07 This book is a study of the effects of delays stemming from a range of sources on the behaviour of traffic flow It provides the reader with theoretical approaches and computational tools including existing tools from the field of control systems for analysing the stability and slinky features of dynamical systems affected by time delays Through examples and case studies it shows how to implement these tools on a variety of traffic flow models The models considered are microscopic flow models dealing with the behaviour of individual vehicles rather than the study of group effects formulated as continuous time deterministic delay differential equations Physiological lag human reaction mechanical time lag and the delay time of vehicular motion are only a few examples of the multitude of delays that are applied to a traffic model Such delays may also be discrete constant distributed or time varying the text concentrates on the constant and distributed delays associated with the representation of linear stability and slinky features to allow a compact and analytically tractable demonstration of the intricacy of delay effects Readers with an academic research background in applied maths vehicle dynamics and traffic modelling and graduate students working in those fields will find this brief to be an interesting source of results and openings for further work It is also useful for engineers working on traffic management systems and the guidance and control of autonomous vehicles *Transportation and Power Grid in Smart Cities* Hussein T. Mouftah,Melike Erol-Kantarci,Mubashir Husain Rehmani,2018-12-28 With the increasing worldwide trend in population migration into urban centers we are beginning to see the emergence of the kinds of mega cities which were once the stuff of science fiction It is clear to most urban planners and developers that accommodating the needs of the tens of millions of inhabitants of those megalopolises in an orderly and uninterrupted manner will require the seamless integration of and real time monitoring and response services for public utilities and transportation systems Part speculative look into the future of the world s urban centers part technical blueprint this visionary book helps lay the groundwork for the communication networks and services on which tomorrow s smart cities will run Written by a uniquely well qualified author team this book

provides detailed insights into the technical requirements for the wireless sensor and actuator networks required to make smart cities a reality *Millimeter-Wave Receiver Concepts for 77 GHz Automotive Radar in Silicon-Germanium Technology* Dietmar Kissinger,2012-03-09 The book presents the analysis and design of integrated automotive radar receivers in Silicon Germanium technology for use in complex multi channel radar transceiver front ends in the 77GHz frequency band The main emphasis of the work is the realization of high linearity and low power modular receiver channels as well as the investigation of millimeter wave integrated test concepts for the receiver front end *Artificial Intelligence in the Operation and Control of Digitalized Power Systems* Sasan Azad,Morteza Nazari-Heris,2024-11-15 This book covers the practical application of AI based methods in modern power systems The complexity of current power system operations has dramatically increased due to the higher penetration of renewable energy sources and power electronic components Therefore providing efficient techniques is essential for secure and clean power system operation This book focuses on the data driven operation of the digitalized power system using machine language ML First the basics of power system operation and control are presented covering various areas of system control and operation Next significant advances in modern power systems and their corresponding challenges are discussed and artificial intelligence AI powered techniques specifically machine learning are introduced to address these issues The book also explores AI powered applications in the operation of power systems These applications include various aspects of the data driven process in both situational awareness and control areas They are presented as practical examples indicating the implementation of an ML based method to solve operational problems Artificial Intelligence in the Operation and Control of Digitalized Power Systems is a valuable guide for students researchers and practicing engineers to AI based techniques and real world applications in power systems *Security in IoT-Enabled Spaces* Fadi Al-Turjman,2019-02-07 Security and smart spaces are among the most significant topics in IoT nowadays The implementation of secured smart spaces is at the heart of this concept and its development is a key issue in the next generation IoT This book addresses major security aspects and challenges in realizing smart spaces and sensing platforms in critical Cloud and IoT applications The book focuses on both the design and implementation aspects of security models and strategies in smart that are enabled by wireless sensor networks and RFID systems It mainly examines seamless data access approaches and encryption and decryption aspects in reliable IoT systems

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