

LTE SIGNALING

Troubleshooting & Optimization

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Lte Signaling Troubleshooting Optimization

Daniela Niemeyer



Lte Signaling Troubleshooting Optimization:

LTE Signaling Ralf Kreher, Karsten Gaenger, 2010-12-21 A comprehensive reference on the call procedures of 4G RAN and Core networks *LTE Signaling Troubleshooting and Optimization* describes the protocols and procedures of LTE It explains essential topics from basic performance measurement counters radio quality and user plane quality to the standards architecture objectives and functions of the different interfaces The first section gives an overview of LTE EPC network architecture reference points protocol stacks information elements and elementary procedures The proceeding parts target more advanced topics to cover LTE EPC signalling and radio quality analysis This book supplements the information provided in the 3GPP standards by giving readers access to a universal LTE EPC protocol sequence to ensure they have a clear understanding of the issues involved It describes the normal signaling procedures as well as explaining how to identify and troubleshoot abnormal network behavior and common failure causes Enables the reader to understand the signaling procedures and parameters that need to be analyzed when monitoring UMTS networks Covers the essential facts on signaling procedures by providing first hand information taken from real LTE EPC traces A useful reference on the topic also providing sufficient details for test and measurement experts who need to analyze LTE EPC signaling procedures and measurements at the most detailed level Contains a description of LTE air interface monitoring scenarios as well as other key topics up to an advanced level *LTE Signaling Troubleshooting and Optimization* is the Long Term Evolution successor to the previous Wiley books *UMTS Signaling* and *UMTS Performance Measurement*

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LTE Signaling Ralf Kreher, Karsten Gaenger, 2016-01-19 This extensively updated second edition of *LTE Signaling Troubleshooting and Performance Measurement* describes the LTE signaling protocols and procedures for the third generation of mobile communications and beyond It is one of the few books available that explain the LTE signaling messages procedures and measurements down to the bit engineers technicians network planners developers researchers designers testing personnel and project managers consulting and training companies standardization bodies

Mobile Network Forensics: Emerging Research and Opportunities Sharevski, Filipo, 2018-11-16 Modern communications are now more than ever heavily dependent on mobile networks creating the potential for higher incidents of sophisticated crimes terrorism acts and high impact cyber security breaches Disrupting these unlawful actions requires a number of digital forensic principles and a comprehensive investigation process *Mobile Network Forensics Emerging Research and Opportunities* is an essential reference source that discusses investigative trends

in mobile devices and the internet of things examining malicious mobile network traffic and traffic irregularities as well as software defined mobile network backbones Featuring research on topics such as lawful interception system architecture and networking environments this book is ideally designed for forensic practitioners government officials IT consultants cybersecurity analysts researchers professionals academicians and students seeking coverage on the technical and legal aspects of conducting investigations in the mobile networking environment Complex, Intelligent, and Software Intensive Systems Leonard Barolli,Nadeem Javaid,Makoto Ikeda,Makoto Takizawa,2018-06-18 This book provides a platform of scientific interaction between the three challenging and closely linked areas of ICT enabled application research and development software intensive systems complex systems and intelligent systems Software intensive systems strongly interact with other systems sensors actuators devices other software systems and users More and more domains are using software intensive systems e g automotive and telecommunication systems embedded systems in general industrial automation systems and business applications Moreover web services offer a new platform for enabling software intensive systems Complex systems research is focused on the overall understanding of systems rather than their components Complex systems are characterized by the changing environments in which they interact They evolve and adapt through internal and external dynamic interactions The development of intelligent systems and agents which are increasingly characterized by their use of ontologies and their logical foundations offer impulses for both software intensive systems and complex systems Recent research in the field of intelligent systems robotics neuroscience artificial intelligence and cognitive sciences are vital for the future development and innovation of software intensive and complex systems Radio Spectrum Management Haim Mazar (Madjar),2016-07-05 This book presents the fundamentals of wireless communications and services explaining in detail what RF spectrum management is why it is important which are the authorities regulating the use of spectrum and how is it managed and enforced at the international regional and national levels The book offers insights to the engineering regulatory economic legal management policy making aspects involved Real world case studies are presented to depict the various approaches in different countries and valuable lessons are drawn The topics are addressed by engineers advocates and economists employed by national and international spectrum regulators The book is a tool that will allow the international regional and national regulators to better manage the RF spectrum and will help operators and suppliers of wireless communications to better understand their regulators Artificial Intelligence for Sustainable Development: Theory, Practice and Future Applications Aboul Ella Hassanien,Roheet Bhatnagar,Ashraf Darwish,2020-08-31 This book highlights the latest advances in the field of artificial intelligence and related technologies with a special focus on sustainable development and environmentally friendly artificial intelligence applications Discussing theory applications and research it covers all aspects of artificial intelligence in the context of sustainable development LTE Signaling Ralf Kreher,Karsten Gaenger,2015-12-14 **Electronic Design , Microwave Journal ,2009** Power Integrity Steven M.

Sandler,2014-07-29 **PROVEN TECHNIQUES FOR GENERATING HIGH FIDELITY MEASUREMENTS** Power Integrity Measuring Optimizing and Troubleshooting Power Related Parameters in Electronics Systems provides field tested techniques for producing high fidelity measurements using the appropriate equipment The book thoroughly discusses measurement guidelines test instrument selection and use connecting the equipment to the device being tested and interpreting the acquired data The latest electronics technologies and their impact on measurement are discussed Detailed photographs screenshots schematics and equations are included throughout this practical guide Learn how to accurately measure Impedance Stability Power supply rejection ratio PSRR Reverse transfer and crosstalk Step load response Ripple and noise Edges High frequency impedance *Evolved Cellular Network Planning and Optimization for UMTS and LTE*

Lingyang Song,Jia Shen,2010-08-24 Most books on network planning and optimization provide limited coverage of either GSM or WCDMA techniques Few scrape the surface of HSPA and even fewer deal with TD SCDMA Filling this void *Evolved Cellular Network Planning and Optimization for UMTS and LTE* presents an accessible introduction to all stages of planning and optimizing UMTS HSPA **Design, Deployment and Performance of 4G-LTE Networks** Ayman ElNashar,Mohamed A. El-saidny,Mahmoud Sherif,2014-03-13 This book provides an insight into the key practical aspects and best practice of 4G LTE network design performance and deployment *Design Deployment and Performance of 4G LTE Networks* addresses the key practical aspects and best practice of 4G networks design performance and deployment In addition the book focuses on the end to end aspects of the LTE network architecture and different deployment scenarios of commercial LTE networks It describes the air interface of LTE focusing on the access stratum protocol layers PDCP RLC MAC and Physical Layer The air interface described in this book covers the concepts of LTE frame structure downlink and uplink scheduling and detailed illustrations of the data flow across the protocol layers It describes the details of the optimization process including performance measurements and troubleshooting mechanisms in addition to demonstrating common issues and case studies based on actual field results The book provides detailed performance analysis of key features enhancements such as C DRX for Smartphones battery saving CSFB solution to support voice calls with LTE and MIMO techniques The book presents analysis of LTE coverage and link budgets alongside a detailed comparative analysis with HSPA Practical link budget examples are provided for data and VoLTE scenarios Furthermore the reader is provided with a detailed explanation of capacity dimensioning of the LTE systems The LTE capacity analysis in this book is presented in a comparative manner with reference to the HSPA network to benchmark the LTE network capacity The book describes the voice options for LTE including VoIP protocol stack IMS Single Radio Voice Call Continuity SRVCC In addition key VoLTE features are presented Semi persistent scheduling SPS TTI bundling Quality of Service QoS VoIP with C DRX Robust Header Compression RoHC and VoLTE Vocoders and De Jitter buffer The book describes several LTE and LTE A advanced features in the evolution from Release 8 to 10 including SON eICIC CA CoMP HetNet Enhanced MIMO Relays and LBS This book can be used as a

reference for best practices in LTE networks design and deployment performance analysis and evolution strategy Conveys the theoretical background of 4G LTE networks Presents key aspects and best practice of 4G LTE networks design and deployment Includes a realistic roadmap for evolution of deployed 3G 4G networks Addresses the practical aspects for designing and deploying commercial LTE networks Analyzes LTE coverage and link budgets including a detailed comparative analysis with HSPA References the best practices in LTE networks design and deployment performance analysis and evolution strategy Covers infrastructure sharing scenarios for CAPEX and OPEX saving Provides key practical aspects for supporting voice services over LTE Written for all 4G engineers designers working in networks design for operators network deployment engineers R D engineers telecom consulting firms measurement performance tools firms deployment subcontractors senior undergraduate students and graduate students interested in understanding the practical aspects of 4G LTE networks as part of their classes research or projects

LTE Small Cell Optimization Harri Holma,Antti Toskala,Jussi Reunanen,2015-10-21 LTE network capabilities are enhanced with small cell deployment with optimization and with new 3GPP features LTE networks are getting high loaded which calls for more advanced optimization Small cells have been discussed in the communications industry for many years but their true deployment is happening now New 3GPP features in Release 12 and 13 further push LTE network performance This timely book addresses R Latest 3GPP evolution to Release 13 and LTE optimization and learnings from the field

The LTE-Advanced Deployment Handbook Jyrki T. J. Penttinen,2015-11-30 LTE Advanced is the new Global standard which is expected to create a foundation for the future wireless broadband services The standard incorporates all the latest technologies recently developed in the field of wireless communications Presented in a modular style the book provides an introductory description for beginners as well as practical guidelines for telecom specialists It contains an introductory module that is suitable for the initial studies of the technology based on the 3GPPRelease 10 11 and beyond of LTE and SAE The latter part of the book is suitable for experienced professionals who will benefit from the practical descriptions of the physical core and radio network planning end to end performance measurements physical network construction and optimization of the system The focus of the book is in the functioning planning construction measurements and optimization of the radio and core networks of the Release 10 and beyond of the 3GPP LTE and SAE standards It looks at the practical description of the Advanced version of the LTE SAE how to de mystify the LTE Advanced functionality and planning and how to carry out practical measurements of the system In general the book describes how to do it for the 4G system which is compliant with the ITU R requirements

Resource Management for Heterogeneous Networks in LTE Systems Rose Qingyang Hu,Yi Qian,2014-03-21 This SpringerBrief provides an in depth look at the key issues that affect the performance of heterogeneous networks and presents schemes that can effectively tackle these issues In particular this book discusses unbalanced traffic load among the macro and micro Base Stations BSs caused by the transmit power disparity and a load balancing based mobile association scheme to balance the

traffic load among the macro and micro BSs This book also introduces a fractional frequency reuse FFR scheme with proper power control to help reduce interference at the UEs which are most vulnerable to such intra cell interference The last section investigates radio resource allocation issues for heterogeneous networks with cooperative relays and proposes a resource allocation framework that could achieve proportional fairness among the UEs Numerical results are provided to demonstrate the effectiveness of the proposed solutions in tackling the problem and improving network performance

Resource Management for Heterogeneous Networks in LTE A Systems is designed for researchers and professionals working in networking and resource management The content is also valuable for advanced level students in computer science and electrical engineering *Automated Rrm Optimization of Lte Networks Using Statistical Learning* Moazzam Tiwana,2012-06

The mobile telecommunication industry has experienced a very rapid growth in the recent past This has resulted in significant technological and architectural evolution in the wireless networks The expansion and the heterogeneity of these networks has significantly increased their operational cost Typical faults in these networks may be related to equipment breakdown and inappropriate planning and configuration In this context automated troubleshooting and self optimization have been introduced as part of Self Organizing Networks SON standard of LTE SON aims at reducing the operational cost and providing high quality services for the end users This can reduce service breakdown time for the clients resulting in the decrease in client switchover to competing network operators This book explores the use of statistical learning for the automated healing and optimization process In this context the effectiveness of statistical learning for automated Radio Resource Management RRM has been investigated The automated healing optimization methodology has been applied to 3G Long Term Evolution LTE use cases for healing the mobility and interference mitigation parameters *LTE Backhaul* Esa Markus Metsälä,Juha T. T. Salmelin,2015-12-02

The aim of this book is to enable network planners to realize and maintain cost efficient LTE backhaul networks which meet the necessary performance requirements Through an introduction to the technology background the economical modelling the dimensioning theory planning and optimization processes and relevant network management aspects the reader shall obtain all relevant information to achieve good backhaul results in their own network environment It is aimed at network planners and other experts with responsibilities for LTE IP network dimensioning LTE network planning providing and managing leased lines business management LTE IP network operation and optimization Enhancing Upper-level Performance from Below Ruofan Jin,2015 Real-time Resource Allocation and Optimization in Wireless Networks Kartik Dhananjay Pandit,2013

Resource allocation in a multi user system is an important problem With the availability of cheap and powerful processing capability these resource allocation problems can now be solved using real time optimization methods While the solution is often specific to the resource allocation problem real time optimization methods use real time data to determine the resource allocation in the next time step In this dissertation we consider multi user resource allocation problems in two different but related application areas namely vehicular

transportation networks and radio access networks of cellular networks which are solved using real time optimization methods The application of real time optimization in the transportation network deals with the traffic signal control of a single intersection Unlike traditional traffic signal control we consider a system enhanced with Vehicular Ad hoc Networks VANETs that enables wireless vehicle to vehicle V2V and vehicle to infrastructure V2I communication The key resource in the traffic signal control is the green time and the objective is to minimize vehicular delays at the intersection Applying techniques from graph theory and processor scheduling we model the problem as a real time job scheduling problem on processors and propose an online scheduling algorithm We prove performance bounds of the online algorithm under the assumption that jobs are of equal size We then show how VANET can be used gather real time traffic information to group vehicles into approximately equal sized platoons which can then be scheduled using the online algorithm Using a detailed simulation analysis we show that the proposed algorithm reduces the delays experienced by vehicles as they pass through the intersection compared to well known traffic signal control algorithms The second application of real time optimization deals with the resource allocation in the radio access network for unicast video in the uplink of a WCDMA based cellular network The key resource is the transmit power and the objective is to maximize the received video quality We adopt the Content Aware Networking framework to do cross layer optimization of video applications in wireless networks The objective is to maximize average video quality seen by the mobile users given channel interference constraints The resource is transmit power and we model the problem as a Multiple Knapsack Problem and use a real time knapsack optimization to solve the problem We test the performance of the algorithm on a WCDMA emulator and our results show that the video quality seen is significantly improved The third problem is optimization of unicast video and radio resource allocation in the LTE downlink Our objective is to maximize the average video quality seen by mobile users in a single LTE cell while constrained by limited number of available physical resource blocks PRBs We again leverage the Content Aware Networking Framework and model the problem as a real time constrained optimization problem and solve it using a real time knapsack optimization To test the performance of our solution we built a realistic model of the LTE downlink where in order to obtain a good fit we used real channel data obtained through drive tests Our results show that for a fixed number of PRBs the average video quality experienced by users is improved significantly The common underlying theme of the three problems addressed in this dissertation is the use of real time optimization In particular the resource allocation optimizer uses real time measurements of the system state that is enabled by the wireless technology The optimizer makes a resource allocation decision for a finite period of time called the optimization horizon This cycle is then repeated with the system state being measured and supplied to the optimizer While the length of the optimization horizon depends on the application the optimization algorithms we describe and implement are fast both asymptotically and practically and allow for fine grain optimization horizons

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