

IEEE 802.11b Ad Hoc Networks: Performance Measurements

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Abstract. In this paper we investigate the performance of IEEE 802.11b ad hoc networks by means of an experimental study. An extensive literature, based on simulation studies, there exists on the performance of IEEE 802.11 ad hoc networks. Our analysis reveals several aspects that are usually neglected in previous simulation studies. Firstly, since different transmission rates are used for control and data frames, different transmission ranges and carrier-sensing ranges may exist at the same time in the network. In addition, the transmission ranges are in practice much shorter than usually assumed in simulation analysis, not constant but highly variable (even in the same session) and depends on several factors. Finally, the results presented in this paper indicate that for correctly understanding the behavior of an 802.11b network operating in ad hoc mode, several different ranges must be considered. In addition to the transmission range, the physical carrier sensing range is very important. The transmission range is highly dependent on the data rate and is up to 100 m, while the physical carrier sensing range is almost independent from the data rate and is approximately 200 m. Furthermore, even though stations are outside from their respective physical carrier sensing range, they may still interfere if their distance is lower than 350 m.

1 Introduction

The IEEE 802.11 technology [IEE02] is a good platform to implement single-hop ad hoc networks because of its extreme simplicity. Single-hop means that stations must be within the same transmission radius (say 100-200 meters) to be able to communicate. This limitation can be overcome by multi-hop ad hoc networking. This requires the addition of routing mechanisms at stations so that they can forward packets towards the intended destination, thus extending the range of the ad hoc network beyond the transmission radius of the source station. Routing solutions designed for wired networks (e.g., the Internet) are not suitable for the ad hoc environment, primarily due to the dynamic topology of ad hoc networks. Even though large-scale multi-hop ad hoc networks will not be available in the near future, on smaller scales, mobile ad hoc networks are starting to appear thus extending the range of the IEEE 802.11 technology over multiple radio hops.

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Handbook of Algorithms for Wireless Networking and Mobile Computing Azzedine Boukerche,2005-11-28 The Handbook of Algorithms for Wireless Networking and Mobile Computing focuses on several aspects of mobile computing particularly algorithmic methods and distributed computing with mobile communications capability It provides the topics that are crucial for building the foundation for the design and construction of future generations of mobile and wireless networks including cellular wireless ad hoc sensor and ubiquitous networks Following an analysis of fundamental algorithms and protocols the book offers a basic overview of wireless technologies and networks Other topics include issues related to mobility aspects of QoS provisioning in wireless networks future applications and much more

Networks 2004 Hermann Kaindl,2004 **Personal Wireless Communications** Marco Conti,2003-09-12 This book constitutes the refereed proceedings of the IFIP TC6 8th International Conference on Personal Wireless Communications PWC 2003 held in Venice Italy in September 2003 The 49 revised papers presented together with 6 special track papers 1 invited paper 11 project descriptions 7 work in progress reports and 8 novel ideas reports were carefully reviewed and selected from 115 submissions The papers are organized in topical sections on mobile computing wireless access sensor networks transport protocols performance models WCDMA ad hoc networks wireless and mobile systems cellular networks IPv6 Bluetooth and security and cooperations in ad hoc networks

VLSI, Microwave and Wireless Technologies Brijesh Mishra,Manish Tiwari,2022-09-03 This book comprises the proceedings of the International Conference on VLSI Microwave and Wireless Technologies ICVMWT 2021 The book includes peer reviewed papers on the core technological developments in emerging fields like wireless communication RF microwave radar VLSI optical communication etc The book will serve as a valuable reference resource for academics and researchers across the globe

Proceedings of the ... ACM International Workshop on Performance Evaluation of Wireless Ad Hoc, Sensor, and Ubiquitous Networks ,2005

Parallel and Distributed Processing and Applications ,2005 *Wireless Mesh Networking* Yan Zhang,Jijun Luo,Honglin Hu,2006-12-13 A promising new technology wireless mesh networks are playing an

increasingly important role in the future generations of wireless mobile networks Characterized by dynamic self organization self configuration and self healing to enable quick deployment easy maintenance low cost high scalability and reliable services this technology is becoming

Intelligent Information Technology Gautam Das,V.P. Gulati,2004-12-03 The 7th International Conference on Information Technology CIT 2004 was held in Hyderabad India during December 20 23 2004 The CIT 2004 was a forum where researchers from various areas of information technology and its applications could stimulate and exchange ideas on technological advancements CIT organized by the Orissa Information Technology Society OITS has emerged as one of the major international conferences in India and is fast becoming the premier forum for the presentation of the latest research and development in the critical area of information technology The last six conferences attracted reputed researchers from around the world and CIT 2004 took this trend forward This conference focused on the latest research findings on all topics in the area of information technology Although the natural focus was on computer science issues research results contributed from management business and other disciplines formed an integral part We received more than 200 papers from over 27 countries in the areas of computational intelligence neural networks mobile and ad hoc networks security databases software engineering signal and image processing and Internet and WWW based computing The programme committee consisting of eminent researchers academicians and practitioners finally selected 43 full papers on the basis of reviewer grades This proceedings contains the research papers selected for presentation at the conference and this is the first time that the proceedings have been published in the Lecture Notes in Computer Science LNCS series The poster papers are being printed as a separate conference proceedings *IEEE/ACM Transactions on Networking* ,2009

Information Computing and Applications Chunfeng Liu,Leizhen Wang,Aimin Yang,2012-09-07 This two volume set of CCIS 307 and CCIS 308 constitutes the refereed proceedings of the Third International Conference on Information Computing and Applications ICICA 2012 held in Chengde China in September 2012 The 330 revised full papers presented in both volumes were carefully reviewed and selected from 1089 submissions The papers are organized in topical sections on internet computing and applications multimedia networking and computing intelligent computing and applications computational statistics and applications knowledge management and applications communication technology and applications information management system control engineering and applications business intelligence and applications cloud and evolutionary computing computational genomics and proteomics engineering management and applications

Personal Wireless Communications ,2004 The 14th IEEE 2003 International Symposium on Personal, Indoor, and Mobile Radio Communications Ke Gong,Zhisheng Niu,2003 *Conference Proceedings* ,2003 **Experimental Characterization of Communications in Vehicular Ad Hoc Network** Fay Hui,2005 The IEEE Computer Society's 12th Annual International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunications Systems (MASCOTS 2004) ,2004 MASCOTS 2004 looks at how models can be calibrated and validated against real world observations

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