



Guide to Wireless Ad Hoc Networks (Computer Communications and Networks)

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Overview and Goals Wireless communication technologies are undergoing rapid advancements. The past few years have experienced a steep growth in research in the area of wireless ad hoc networks. The attractiveness of ad hoc networks, in general, is attributed to their characteristics/features such as ability for infrastructure-less setup, minimal or no reliance on network planning and the ability of the nodes to self-organize and self-configure without the involvement of a centralized n- work manager, router, access point or a switch. These features help to set up a network fast in situations where there is no existing network setup or in times when setting up a fixed infrastructure network is considered infeasible, for example, in times of emergency or during relief operations. Even though ad hoc networks have emerged to be attractive and they hold great promises for our future, there are several challenges that need to be addressed. Some of the well-known challenges are attributed to issues relating to scalability, quality-of-service, energy efficiency and security.

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Editorial Review

Review

From the reviews: "This book delivers a useful addition to the already rich body of knowledge on wireless ad hoc networks. ... targets mainly the student community. ... Sections on future research and 'thoughts for practitioners' provided in each chapter make the book an interesting read for those who work in the research community, as well. ... the editor's have tackled the breadth versus depth dilemma in a balanced manner, making this book a useful reference for students, instructors, and practitioners alike." (Alessandro Berni, ACM Computing Reviews, December, 2009)

From the Back Cover

Wireless ad-hoc network communication technologies have experienced a steep growth in research and significant advancements in recent times due to their important advantages. These benefits help to set-up a network fast in situations where there is no existing network set-up, or when setting up a fixed infrastructure network is considered infeasible. However, there are challenges that still need to be addressed.

This indispensable guidebook provides a comprehensive resource on the new ideas and results in the areas of mobile ad-hoc networks and other ad-hoc computing systems in the wireless communication technology field. Wireless ad-hoc networks are explored by leading experts in the field from both academia and industry, with discussions on various challenges in varied environments, standards, routing mechanisms, etc. This reader-friendly, broad-ranging text features in-depth descriptions of terminologies and concepts related to the diverse subject areas germane to wireless ad hoc communication.

Features:

- Provides an accessible, comprehensive overview of the state-of-the-art technology of wireless ad-hoc networks
- Includes reader-friendly discussions for practitioners, directions for future research, and helpful lists of terms and definitions
- Offers a set of summary questions at the end of each chapter to help readers assess their understanding of the various concepts
- Presents insight into the practical significance of these topics in real-world scenarios
- Designed, in structure and content, to aid the learning process with the intention of making the book useful at all learning levels
- Supplies supportive PowerPoint presentation slides and solutions to aid lecturers at www.springer.com/978-1-84800-327-9

This wide-ranging and highly useful guide will be a valuable reference/text in the field for researchers, engineers and strategists needing to know about this technology. It is also an ideal textbook for graduate students wishing to learn more about the topic.

Key Topics:

- Routing
- Mobility Management
- Quality of Service Support
- Congestion Control
- Security
- Trust Management

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