

Self-Organized Mobile Communication Technologies and Techniques for Network Optimization

Part of the Advances in Wireless Technologies and Telecommunication Book Series

Ali Diab (Al-Baath University, Syria)

Description:

With increased consumer use and adoption, mobile communication technologies are faced with the challenge of creating an adequate wireless networking architecture that can support a high degree of scalability, performance, and reliability in a cost-effective manner without comprising security or quality of service.

Self-Organized Mobile Communication Technologies and Techniques for Network Optimization explores self-organizing networks (SONs) as a proposed solution for the automation of mobile communication tasks that currently require significant efforts for planning, operation, and management. Emphasizing research on the latest generation of mobile communication networks, the 5th generation (5G), this publication proposes timely solutions and presents the latest developments in the field of mobile communication technologies.

Readers:

IT developers, engineers, graduate-level students, and researchers will find this publication to be essential to their research needs.

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Topics Covered:

- Cellular Network
- Cognitive Radio Networks
- Internet of Things (IoT)
- Network Optimization
- Network Planning
- Network Sustainability
- Self-Organized Networks;

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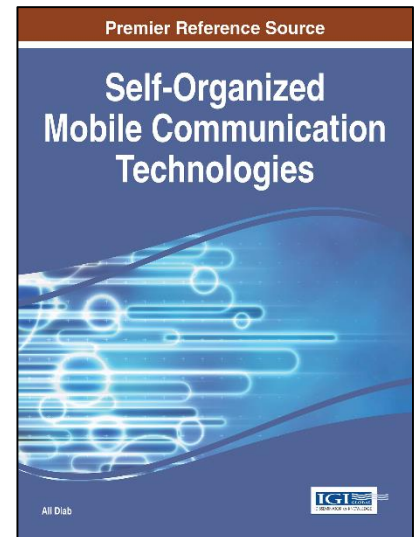


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Ali Diab received the B.E. degree in Electronic Engineering from the Damascus University, Damascus, Syria, in 1999 and the Diploma degree in Computer Science and Automation from the same university in 2000. After that, he obtained his Dr.-Ing. Title from the Ilmenau University of Technology, Faculty of Computer Science in 2010. His dissertation focused on mobility management in IP-based networks. Currently, he is pursuing his postdoctoral degree at the Ilmenau University of Technology on the topic “Self-Organized Future Mobile Communication Networks”