



# **Quality-of-Service and Security in Mobile Ad hoc Networks: Denial-Of-Service Resistant Quality-Of-Service Provisioning for Mobile Ad hoc Networks**

*Marek Hejmo*

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Mobile ad hoc networks (MANETs) are especially susceptible to a large class of denial-of-service (DoS) attacks due to the limitations of mobile devices and the wireless medium. As a result, quality-of-service (QoS) signaling protocols for MANETs are highly vulnerable to these attacks. This book analyzes a class of DoS attacks on QoS based signaling protocols for MANETs and then proposes a new distributed QoS signaling scheme that is resilient to these DoS attacks. Moreover, this book introduces a quantitative metric for the fairness experienced by a flow in the presence of flooding attacks and develops a model to study the impact of flow aggregation on the fairness experienced by a flow in the presence of flooding attacks. It also considers the problem of allocating bandwidth to a set of traffic flows at a statistical multiplexer to provide both QoS and resistance to the discussed DoS attacks. This book should be especially beneficial to professionals in Communication Networks and Network Security fields, and everyone else interested in learning about robust telecommunication systems.

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