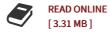# Virtual Backbone Formation Algorithms for Mobile ad hoc Networks

By Almahrog, Khalid

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Simulation-based Performance Evaluation | Mobile ad hoc networks (MANETs) are created by themobile computing devices on an ad hoc basis withoutany support provided by apre-installed communications infrastructure. Alongwith their appealing properties, MANETs exhibitproperties that hinder their realization. Topologydynamism and bandwidth limitations adversely affectthe performance of MANETs routing protocols. Virtual backbone is proposed to facilitate routing,broadcasting, and establishing a dynamicinfrastructure for distributed location databases.Minimizing the virtual backbone size produces asimpler abstracted topology of the MANET and allowsfor using shorter routes. In this book, a comprehensive study of MANETs routing and clustering algorithms is presented along with a simulation-based performance evaluation of the most renownedalgorithms using the NS2 network simulator.This comparison focuses on the total costs incurredin terms of CDS size, running time, and signalingoverhead generated during the CDS creation andmaintenance phases. Moreover, the effects of mobility rates, network size, and mobility models onthe performance of each algorithm are investigated. | Format: Paperback | Language/Sprache: english | 148 pp.

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