

Table of Contents

Space-Time Routing in Ad Hoc Networks	1
<i>H. Dubois-Ferrière, M. Grossglauser, and M. Vetterli</i>	
SAFAR: An Adaptive Bandwidth-Efficient Routing Protocol for Mobile Ad Hoc Networks	12
<i>J. Doshi and P. Kilambi</i>	
Evaluation of the AODV and DSR Routing Protocols Using the MERIT Tool	25
<i>P. Narayan and V.R. Syrotiuk</i>	
On-demand Routing in MANETs: The Impact of a Realistic Physical Layer Model	37
<i>L. Qin and T. Kunz</i>	
Architecture and Algorithms for Real-Time Mobility Management in Mobile IP Networks	49
<i>M. Diha and S. Pierre</i>	
Proactive QoS Routing in Ad Hoc Networks	60
<i>Y. Ge, T. Kunz, and L. Lamont</i>	
Delivering Messages in Disconnected Mobile Ad Hoc Networks	72
<i>R. Shah and N.C. Hutchinson</i>	
Extending Seamless IP Multicast Edge-Coverage through Mobile Ad Hoc Access Networks	84
<i>P.M. Ruiz, A.F. Gomez-Skarmeta, P. Martinez, and D. Larrabeiti</i>	
A Uniform Continuum Model for Scaling of Ad Hoc Networks	96
<i>E.W. Grundke and A.N. Zincir-Heywood</i>	
Probabilistic Protocols for Node Discovery in Ad Hoc Multi-channel Broadcast Networks	104
<i>G. Alonso, E. Kranakis, C. Sawchuk, R. Wattenhofer, and P. Widmayer</i>	
Towards Adaptive WLAN Frequency Management Using Intelligent Agents	116
<i>F. Gamba, J.-F. Wagen, and D. Rossier</i>	
Analyzing Split Channel Medium Access Control Schemes with ALOHA Reservation	128
<i>J. Deng, Y.S. Han, and Z.J. Haas</i>	
Preventing Replay Attacks for Secure Routing in Ad Hoc Networks	140
<i>J. Zhen and S. Srinivas</i>	

Resisting Malicious Packet Dropping in Wireless AdHoc Networks 151
M. Just, E. Kranakis, and T. Wan

A New Framework for Building Secure Collaborative Systems
in True AdHoc Network 164
H.-P. Bischof, A. Kaminsky, and J. Binder

Computing 2-Hop Neighborhoods in AdHoc Wireless Networks 175
G. Calinescu

Topology Control Problems under Symmetric
and Asymmetric Power Thresholds 187
*S.O. Krumke, R. Liu, E.L. Lloyd, M.V. Marathe, R. Ramanathan,
and S.S. Ravi*

IDEA: An Iterative-Deepening Algorithm for Energy-Efficient Querying
in AdHoc Sensor Networks 199
S. Patil

On the Interaction of Bandwidth Constraints and Energy Efficiency
in All-Wireless Networks 211
T. Chu and I. Nikolaidis

Automated Meter Reading and SCADA Application
for Wireless Sensor Network 223
F.J. Molina, J. Barbancho, and J. Luque

Range Assignment for High Connectivity in Wireless AdHoc Networks . . . 235
G. Calinescu and P.-J. Wan

Steiner Systems for Topology-Transparent Access Control in MANETs . . . 247
C.J. Colbourn, V.R. Syrotiuk, and A.C.H. Ling

Complexity of Connected Components in Evolving Graphs
and the Computation of Multicast Trees in Dynamic Networks 259
S. Bhadra and A. Ferreira

Mobile Agents for Clustering and Routing in Mobile Ad Hoc Networks . . . 271
M.K. Denko and Q.H. Mahmoud

Routing Update in Ad Hoc Networks 277
B. Macabéo, S. Pierre, and A. Quintero

Inter-vehicle Geocast Protocol Supporting Non-equipped GPS Vehicles . . . 281
A. Benslimane and A. Bachir

Cartesian AdHoc Routing Protocols 287
L. Hughes, K. Shumon, and Y. Zhang

Author Index 293