1. Record Nr. UNICAMPANIASUN0044438

Autore	Weiestrass Institute for Applied Analysis and Stochastics
Titolo	Fast solution of discretized optimization problems : Workshop held at the Weierstrass Institute for Applied Analysis and Stochastics, Berlin, May 8-12, 2000 / Karl-Heinz Hoffmann, Ronald H. W. Hoppe, Volker Schulz editors
Pubbl/distr/stampa	Basel, : Birkhäuser, 2001
ISBN	8-3-0348-9484-5
Descrizione fisica	VI, 283 p. ; 24 cm.
Soggetti	49-XX - Calculus of variations and optimal control; optimization [MSC 2020] 00B25 - Proceedings of conferences of miscellaneous specific interest [MSC 2020] 90-XX - Operations research, mathematical programming [MSC 2020] 93-XX - Systems theory; control [MSC 2020]
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2.

Record Nr.	UNINA9910815410103321
Autore	Zeng Kai
Titolo	Multihop wireless networks : opportunistic routing / / Kai Zeng, Wenjing Lou, Ming Li
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , 2011 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2011]
ISBN	1-283-17782-X 9786613177827 1-119-97360-0 1-119-97361-9
Edizione	[1st edition]
Descrizione fisica	1 online resource (307 p.)
Collana	Wiley series on wireless communications and mobile computing.
Classificazione	TEC041000
Altri autori (Persone)	LouWenjing LiMing <1985->
Disciplina	621.387/82
Soggetti	Ad hoc networks (Computer networks) Radio relay systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	About the Series Editors -- Preface -- List of Abbreviations -- 1 Introduction -- 1.1 Multihop wireless networks -- 1.2 Routing challenges in MWNs -- 1.3 Routing techniques in MWNs -- 1.4 Related work -- 1.5 Book contribution -- 1.6 System model and assumptions -- References -- 2 Taxonomy of opportunistic routing: principles and behaviors -- 2.1 EPA generalization -- 2.2 Principles of local behavior of GOR -- 2.3 Least cost opportunistic routing -- 2.4 Conclusions -- References -- 3 Energy efficiency of geographic opportunistic routing -- 3.1 EGOR problem formulation -- 3.2 Efficient localized node-selection algorithms -- 3.3 Energy-efficient geographic opportunistic routing -- 3.4 Performance evaluation -- 3.5 Conclusion -- References -- 4 Capacity of multirate opportunistic routing -- 4.1 Computing throughput bound of OR -- 4.2 Impact of transmission rate and forwarding strategy on throughput -- 4.3 Rate and candidate selection schemes -- 4.4 Performance evaluation -- 4.5 Conclusion -- References -- 5 Multiradio multichannel opportunistic routing -- 5.1 Introduction -- 5.2 System model and opportunistic routing primer --

5.3 Problem formulation -- 5.4 Forwarding priority scheduling -- 5.5 Performance evaluation 1 -- 5.6 Conclusions and future work -- References -- 6 Medium access control for opportunistic routing - candidate coordination -- 6.1 Existing candidate coordination schemes -- 6.2 Design and analysis of FSA -- 6.3 Simulation results and evaluation -- 6.4 Conclusions -- References -- 7 Integration of opportunistic routing and network coding -- 7.1 A brief review of MORE -- 7.2 Mobile content distribution in VANETs -- 7.3 Related works on mobile content distribution in VANETs -- 7.4 Background on symbol-level network coding -- 7.5 CodeOn: a cooperative popular content broadcast scheme for VANETs based on SLNC -- 7.6 CodePlay: a live multimedia streaming scheme for VANETs based on SLNC -- 7.7 Conclusion -- References -- 8 Multirate geographic opportunistic routing protocol design.
8.1 System model -- 8.2 Impact of transmission rate and forwarding strategy on OR performance -- 8.3 Opportunistic effective one-hop throughput (OEOT) -- 8.4 Heuristic candidate selection algorithm -- 8.5 Multirate link-quality measurement -- 8.6 Performance evaluation -- 8.7 Conclusion -- References -- 9 Opportunistic routing security -- 9.1 Attack on link quality measurement -- 9.2 Attacks on opportunistic coordination protocols -- 9.3 Resilience to packet-dropping attack -- 9.4 Conclusion -- References -- 10 Opportunistic broadcasts in vehicular networks -- 10.1 Related works on broadcasts in general MWNs -- 10.2 Related works on broadcasts in VANETs -- 10.3 Problem statement -- 10.4 Overview of OppCast -- 10.5 OppCast: main design -- 10.6 Parameter optimization -- 10.7 Performance evaluation -- 10.8 Conclusion -- References -- 11 Conclusions and future research -- 11.1 Summary -- 11.2 Future research directions -- References -- Index.

Sommario/riassunto

"This book provides an introduction to opportunistic routing an emerging technology designed to improve the packet forwarding reliability, network capacity and energy efficiency of multihop wireless networksThis book presents a comprehensive background to the technological challenges lying behind opportunistic routing. The authors cover many fundamental research issues for this new concept, including the basic principles, performance limit and performance improvement of opportunistic routing compared to traditional routing, energy efficiency and distributed opportunistic routing protocol design, geographic opportunistic routing, opportunistic broadcasting, and security issues associated with opportunistic routing, etc. Furthermore, the authors discuss technologies such as multi-rate, multi-channel, multi-radio wireless communications, energy detection, channel measurement, etc. The book brings together all the new results on this topic in a systematic, coherent and unified presentation and provides a much needed comprehensive introduction to this topic.Key Features: Addresses opportunistic routing, an emerging technology designed to improve the packet forwarding reliability, network capacity and energy efficiency of multihop wireless networks Discusses the technological challenges lying behind this new technology, and covers a wide range of practical implementation issues Explores many fundamental research issues for this new concept, including the basic principles of opportunistic routing, performance limits and performance improvement, and compares them to traditional routing (e.g. energy efficiency and distributed opportunistic routing protocol design, broadcasting, and security issues) Covers technologies such as multi-rate, multi-channel, multi-radio wireless communications, energy detection, channel measurement, etc. This book provides an invaluable reference for researchers working in the field of wireless networks and

wireless communications, and Wireless professionals. Graduate students will also find this book of interest"--
"This book presents a comprehensive background to the technological challenges lying behind opportunistic routing"--