

1. Record Nr.	UNINA9910778823303321
Titolo	Delay tolerant networks : protocols and applications // editors, Athanasios Vasilakos, Yan Zhang, Thrasyvoulos Spyropoulos
Pubbl/distr/stampa	Boca Raton : , : CRC Press, , 2012
ISBN	0-429-14819-4 1-4665-1300-4 1-280-12161-0 9786613525475 1-4398-1112-1
Edizione	[1st edition]
Descrizione fisica	1 online resource (332 p.)
Collana	Wireless networks and mobile communications ; ; 19
Classificazione	TEC041000TEC061000
Altri autori (Persone)	VasilakosAthanasios ZhangYan <1977-> SpyropoulosThrasyvoulos
Disciplina	004.6/5
Soggetti	Computer networks - Reliability Routing (Computer network management) Fault-tolerant computing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Auerbach publications.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; Contents; Preface; List of Contributors; 1. Delay Tolerant Networking; 2. DTN Routing: Taxonomy and Design; 3. Energy-Aware Routing Protocol for Delay Tolerant Networks; 4. A Routing-Compatible Credit-Based Incentive Scheme for DTNs; 5. R-P2P: a Data-Centric Middleware for Delay Tolerant Applications; 6. Mobile Peer-to-Peer Systems over Delay Tolerant Networks; 7. Delay Tolerant Monitoring of Mobility-Assisted WSN; 8. Message Dissemination in Vehicular Networks; 9. Delay Tolerant Networking (DTN) Protocols for Space Communications; 10. DTN and Satellite Communications
Sommario/riassunto	A class of Delay Tolerant Networks (DTN), which may violate one or more of the assumptions regarding the overall performance characteristics of the underlying links in order to achieve smooth operation, is rapidly growing in importance but may not be well served by the current end-to-end TCP/IP model. Delay Tolerant Networks:

Protocols and Applications takes you on a systematic exploration of DTN concepts, architectures, protocols, enabling technologies, and applications. Containing a wealth of illustrative material for ease of understanding, this one-stop reference discusses the various challenges associated with DTN. Written for a broad audience of researchers and practitioners, it supplies useful reference material for graduate students and senior undergraduate students in courses of networking, wireless, and mobile communications. Starting with an accessible introduction to DTNs, their architecture, bundle protocols, and routing schemes, the book provides authoritative coverage of: DTN Routing Energy-Aware Routing Protocol for DTNs A Routing-Compatible Credit-Based Incentive Scheme R-P2P: a Data-Centric Middleware for Delay Tolerant Applications Mobile Peer-to-Peer Systems over DTNs Delay-Tolerant Monitoring of Mobility-Assisted WSN Message Dissemination in Vehicular Networks DTN Protocols for Space Communications DTN for Satellite Communications Reporting on the latest developments in these domains, the distinguished panel of contributors supplies a realistic look into the future of networking. Complete with sections that summarize open issues in each domain, this book arms you with the understanding and methods required to make an impact on the advancement of these emerging networks that continue to grow in importance. --
