

1. Record Nr.	UNINA9910437597403321
Autore	Ismail Muhammad
Titolo	Cooperative Networking in a Heterogeneous Wireless Medium // by Muhammad Ismail, Weihua Zhuang
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2013
ISBN	1-4614-7079-X
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (90 p.)
Collana	SpringerBriefs in Computer Science, , 2191-5776
Altri autori (Persone)	ZhuangWeihua
Disciplina	621.382
Soggetti	Telecommunication Electronic digital computers - Evaluation Coding theory Information theory Communications Engineering, Networks System Performance and Evaluation Coding and Information Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Introduction -- Decentralized Optimal Resource Allocation -- Prediction Based Resource Allocation -- Resource Allocation for Single-network and Multi-homing Services -- Conclusions and Future Directions.
Sommario/riassunto	This brief focuses on radio resource allocation in a heterogeneous wireless medium. It presents radio resource allocation algorithms with decentralized implementation, which support both single-network and multi-homing services. The brief provides a set of cooperative networking algorithms, which rely on the concepts of short-term call traffic load prediction, network cooperation, convex optimization, and decomposition theory. In the proposed solutions, mobile terminals play an active role in the resource allocation operation, instead of their traditional role as passive service recipients in the networking environment.