1.	Record Nr.	UNINA9910136609203321
	Autore	Ghorbanzadeh Mo
	Titolo	Cellular Communications Systems in Congested Environments : Resource Allocation and End-to-End Quality of Service Solutions with MATLAB / / by Mo Ghorbanzadeh, Ahmed Abdelhadi, Charles Clancy
	Pubbl/distr/stampa	Cham : , , : Springer International Publishing : , , : Imprint : Springer, , 2017
	Edizione	[1st ed. 2017.]
	Descrizione fisica	1 online resource (261 p.)
	Disciplina	620
	Soggetti	Electrical engineering
		Signal processing
		Image processing
		Speech processing systems
		Information storage and retrieval
		Mathematical optimization
		Input-output equipment (Computers)
		Communications Engineering, Networks
		Signal, Image and Speech Processing
		Information Storage and Retrieval
		Continuous Optimization
		Input/Output and Data Communications
	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 at the end of each chapters and index.
	Nota di contenuto	Quality of Service in Communication Systems -- Utility Functions and Radio Resource Allocation -- Centralized Resource Allocation -- Distributed Resource Allocation -- Resource Allocation Architectures Traffic and Sensitivity Analysis -- Radio Resource Block Allocation -- Spectrum-Shared Resource Allocation -- Delay-Based Backhaul Modeling -- Book Summary.
	Sommario/riassunto	This book presents a mathematical treatment of the radio resource allocation of modern cellular communications systems in contested

environments. It focuses on fulfilling the quality of service requirements of the living applications on the user devices, which leverage the cellular system, and with attention to elevating the users' quality of experience. The authors also address the congestion of the spectrum by allowing sharing with the band incumbents while providing with a quality-of-service-minded resource allocation in the network. The content is of particular interest to telecommunications scheduler experts in industry, communications applications academia, and graduate students whose paramount research deals with resource allocation and quality of service. .