

1. Record Nr.	UNINA9911006726603321
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Titolo	Edge caching for mobile networks
Pubbl/distr/stampa	Stevenage : , : Institution of Engineering & Technology, , 2022 ©2022
ISBN	1-83724-587-8 1-5231-4265-0 1-83953-123-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (909 pages)
Collana	Telecommunications
Altri autori (Persone)	ChenWei
Disciplina	005.758
Soggetti	Web databases
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: IntroductionChapter 2: Physical layer schemes for coded cachingChapter 3: Cache-aided content delivery over noisy broadcast channelsChapter 4: Multi-antenna cache-aided channelsChapter 5: Caching for interference networks: a separation architectureChapter 6: Scalable delivery of correlated video content over cache-aided broadcast networksChapter 7: Rate-distortion theory for cachingChapter 8: Secrecy of edge cachingChapter 9: Scaling laws for cache-aided device-to-device networks for wireless videoChapter 10: Caching increases the capacity of wireless networksChapter 11: Cache-induced hierarchical cooperation in wireless D2D networksChapter 12: Wireless device-to-device caching networks with distributed MIMO and hierarchical cooperationsChapter 13: Randomised geographic caching and its applications in wireless networksChapter 14: Pricing-aided proactive caching for mobile servicesChapter 15: Mobile edge caching: an optimal auction approachChapter 16: Contract theory-based approach for cachingChapter 17: Mean-field game-theoretic edge cachingChapter 18: Caching with time-varying popularity profilesChapter 19: Reinforcement learning for caching with space-time popularity dynamicsChapter 20: Push-based wireless converged networks with user cachingChapter 21: On the joint optimization of content caching and recommendationsChapter 22: Caching with

recommendation and reinforcement learning
Chapter 23: Social networking-driven caching
Chapter 24: Caching for secure social networks
Chapter 25: Caching for CRAN and UAVs
Chapter 26: Dynamic computation offloading and resource allocation in cache-assisted mobile edge computing systems.

Sommario/riassunto

In this comprehensive edited book, the authors introduce edge caching from a theoretical perspective and discuss its role in saving bandwidth. Many physical layer models and techniques, including interference alignment and beamforming, are considered as well as recent advances in intelligent and proactive communication systems.
