



Mobile Opportunistic Networks: Architectures, Protocols and Applications

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The widespread availability of mobile devices coupled with recent advancements in networking capabilities make opportunistic networks one of the most promising technologies for next-generation mobile applications. Are you ready to make your mark?

Featuring the contributions of prominent researchers from academia and industry, **Mobile Opportunistic Networks: Architectures, Protocols and Applications** introduces state-of-the-art research findings, technologies, tools, and innovations. From fundamentals to advanced concepts, the book provides the comprehensive technical coverage of this rapidly emerging communications technology you need to make contributions in this area.

The first section focuses on modeling, networking architecture, and routing problems. The second section examines opportunistic networking technologies and applications. Presenting the latest in modeling opportunistic network connection structures and pairwise contacts, the text discusses the fundamentals of opportunistic routing. It reviews the most-popular routing protocols and introduces a routing protocol for delivering data with load balancing and reliable transmission capabilities.

- Details an approach to analyzing user behavior based on realistic data in opportunistic networks
- Presents analytical approaches for mobility and heterogeneous connections management in mobile opportunistic networks
- Compares credit-based incentive schemes for mobile wireless ad hoc networks and challenged networks
- Discusses the combined strengths of cache-based approaches and Infostation-based approaches

Addressing key research challenges and open issues, this complete technical guide reports on the latest advancements in the deployment of stationary relay nodes on vehicular opportunistic networks. It also illustrates the use of the service location and planning (SLP) technique for resource utilization with quality of service (QoS) constraints in opportunistic capability utilization networks. The book introduces a novel prediction-based routing protocol, and supplies authoritative coverage of communication architectures, network algorithms and protocols, emerging applications, industrial and professional standards, and experimental studies—including simulation tools and implementation test beds.

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