Emerging Wireless Technologies and the Future Mobile Internet

Description: This book provides a preview of emerging wireless technologies and their architectural impact on the future mobile Internet. The reader will find an overview of architectural considerations for the mobile Internet, along with more detailed technical discussion of new protocol concepts currently being considered at the research stage. The first chapter starts with a discussion of anticipated mobile/wireless usage scenarios, leading to an identification of new protocol features for the future Internet. This is followed by several chapters that provide in-depth coverage of next-generation wireless standards, ad hoc and mesh network protocols, opportunistic delivery and delay tolerant networks, sensor network architectures and protocols, cognitive radio networks, vehicular networks, security and privacy, and experimental systems for future Internet research. Each of these contributed chapters includes a discussion of new networking requirements for the wireless scenario under consideration, architectural concepts and specific protocol designs, many still at research stage.

Contents:
1. Emerging wireless technologies and their impact on future Internet architecture Dipankar Raychaudhuri;
2. Next-generation wireless standards and their integration with the Internet Hang Liu;
3. Ad hoc and mesh network protocols, and their integration with the Internet Suli Zhao and Shweta Jain;
4. Opportunistic content delivery services and delay tolerant networks Sanjoy Paul;
5. Sensor networks architectures and protocols Matt Welsh and Omprakash Gnawali;
6. Participatory sensing Mani Srivastava, Sasank Reddy and Mani Srivastava;
7. Cognitive radio networks Peter Steenkiste, George Nychis and Srin Seshan;
8. Vehicular networks Mario Gerla and Marco Gruteser;
10. Experimental systems for next-generation wireless networking Max Ott, Ivan Seskar and Sachin Ganu;

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