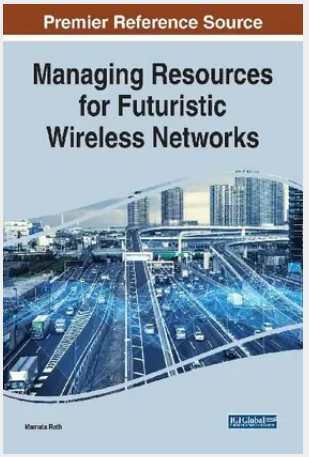
Information Science Reference

# Managing Resources for Futuristic Wireless Networks




Due to dynamic road conditions and the continued prevalence and necessity of vehicles for transportation and supply chain management, the study of traffic flow patterns has become essential for corporations and logistics. The advancements and ongoing research in wireless communication has enabled Vehicular Ad-Hoc Networks (VANETs) to integrate with emerging technologies and implement intelligent transportation and promote safe and secure journeys. Managing Resources for Futuristic Wireless Networks is a comprehensive academic book that provides essential research on the role of VANET-focused communication technologies as a method of resource management and safety promotion. The book also covers issues, algorithms, and solutions for achieving best resource utilization in VANETs. Highlighting a wide range of topics such as fog computing, network coding, and renewable energy resources, this book is ideal for policymakers, automotive engineers, technicians, IT specialists, engineers, academicians, researchers, and graduate students.

The key parameter that needs to be considered when planning the management of resources in futuristic wireless networks is a balanced approach to resource distribution. A balanced approach is necessary to provide an unbiased working environment for the distribution, sharing, allocation, and supply of resources among the devices of the wireless network. Equal resource distribution also maintains balance and stability between the operations of communication systems and thus improves the performance of wireless networks. Managing Resources for Futuristic Wireless Networks is a pivotal reference source that presents research related to the control and management of key parameters of bandwidth, spectrum sensing, channel selection, resource sharing, and task scheduling, which is necessary to ensure the efficient operation of wireless networks. Featuring topics that include vehicular ad-hoc networks, resource management, and the internet of things, this publication is ideal for professionals and researchers working in the field of networking, information and knowledge management, and communication sciences. Moreover, the book will provide insights and support executives concerned with the management of expertise, knowledge, information, and organizational development in different types of work communities and environments.

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