Vehicular Communications and Networks: Architectures, Protocols, Operation and Deployment (Woodhead Publishing Series in Electronic and Optical Materials)

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Vehicular Communications and Networks: Architectures, Protocols, Operation and Deployment discusses VANETs (Vehicular Ad-hoc Networks) or VCS (Vehicular Communication Systems), which can improve safety, decrease fuel consumption, and increase the capacity of existing roadways and which is critical for the Intelligent Transportation System (ITS) industry. Part one covers architectures for VCS, part two describes the physical layer, antenna technologies and propagation models, part three explores protocols, algorithms, routing and information dissemination, and part four looks at the operation and deployment of vehicular communications and networks.

- Comprehensive coverage of the fundamental principles behind Vehicular Ad-hoc Networks (VANETS) and the rapidly growing need for their further development
- Thorough overview of the design and development of key technologies and devices
- Explores the practical application of this technology by outlining a number of case studies, testbeds and simulations employing vehicular communications and networks

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Editorial Review

From the Back Cover

Vehicular communications and networking technologies are central to the significant efforts being made by industry bodies, academia and government agencies to improve safety, decrease fuel consumption, and increase the capacity of existing roadways. As such, the development and deployment of Vehicular Communication Systems (VCS) is considered to be one of the most critical issues for the Intelligent Transportation System (ITS) industry.

Vehicular Communications and Networks provides an authoritative guide to the key knowledge and technologies required for the production of efficient VCS, beginning in Part One with a solid overview of architectures for vehicular communication systems, with vehicular-to-infrastructure (V2I) communications and vehicular ad hoc networks (VANET) discussed in detail. Part Two goes on to outline protocols, algorithms, routing and information dissemination for vehicular networks, before Part Three investigates the operation and deployment of vehicular communications and networks, including reviews of connected vehicles in intelligent transport systems, testbeds for simulations, and simulative performance evaluation.

About the Author
Wai Chen, Telcordia Technologies Inc., USA.

Users Review

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