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Intelligent Vehicular Network and Communications: Fundamentals, Architectures and Solutions begins with discussions on how the transportation system has transformed into today's Intelligent Transportation System (ITS). It explores the design goals, challenges, and frameworks for modeling an ITS network, discussing vehicular network model technologies, mobility management architectures, and routing mechanisms and protocols.

Intelligent Vehicular Networks and Communications ... In the last two decades, vehicular ad hoc networks (VANETs) were the topic of many research studies. The emergence of multiple wireless access technologies and the wide number of applications provided by VANET explain the significant interest in this field. Enabling communication between vehicles and infrastructure equipment (e.g. roadside units, cameras) provides drivers and traffic authorities with information related to traffic conditions and incidents.

Vehicular cloud networks: Challenges, architectures, and ...

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Vehicular Communications and Networks: Architectures, Protocols, Operation and Deployment Contents. List of contributors ix Woodhead Publishing Series in Electronic and Optical Materials xi. Part One Architectures for vehicular communication systems 1. 1.1 Vehicle-to-infrastructure communications 3 C. Wietfeld, C. Ide 1.1 Introduction 3 1.2 V2I applications, requirements and related work 3 1.3 Performance of cellular communication systems for vehicular applications 6 1.4 System model for the ...

Vehicular Communications and Networks: Architectures ...

It explores the design goals, challenges, and frameworks for modeling an ITS network, discussing vehicular network model technologies, mobility management architectures, and routing mechanisms and protocols. It looks at the Internet of Vehicles, the vehicular cloud, and vehicular network security and privacy issues.

Intelligent Vehicular Networks and Communications ...

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VANETs were first mentioned and introduced in 2001 under "car-to-car ad-hoc mobile communication and networking" applications, where networks can be formed and information can be relayed among cars. It was shown that vehicle-to-vehicle and vehicle-to-roadside communications architectures will co-exist in VANETs to provide road safety , navigation, and other roadside services.

Vehicular ad hoc network - Wikipedia

Intelligent Vehicular Networks and Communications:

Fundamentals, Architectures and Solutions eBook:

Paul, Anand, Chilamkurti, Naveen, Daniel, Alfred, Rho, Seungmin ...

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Survey on the Internet of Vehicles: Network

Architectures and Applications. Abstract: The

vehicular ad hoc network (VANET) has been widely used as an application of mobile ad hoc networking in the automotive industry. However, in the 5G/B5G era, the Internet of Things as a cutting-edge technology is gradually transforming the current Internet into a fully integrated future Internet.

Survey on the Internet of Vehicles: Network

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Current generation vehicular network is mostly developed using the DSRC and IEEE802.11p standards. For the next generation vehicular networks, the 3GPP based LTE standard is considered as one of the key wireless networking technologies for the V2X communication systems.

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