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Vehicular Communications And Networks Architectures
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.

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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 ...

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Intelligent Vehicular Networks and Communications ...
– Permanent-cloud based architectures: Vehicles, that form a vehicular network, access to the cloud data centers (or cloud hosted in the RSUs) through means of communication (mobile and wireless networks, satellite networks). They share information with each other and with the cloud, but they do not share their resources.

Vehicular cloud networks: Challenges, architectures, and ...
The PC5 standard allows a device-to-device (D2D) communication feature. A new vehicular network architecture is developed in this PhD to enable the LTE-based 5G network to support V2X communications, which will enhance road traffic safety and energy efficiency as well as improve the safety of vulnerable road users utilising smart phones.

Vehicular network architecture using the 5G standard
Drone Assisted Vehicular Networks: Architecture, Challenges and Opportunities Abstract: This article introduces the DAVN, which provides ubiquitous connections for vehicles by efficiently integrating the communication and networking technologies of drones and connected vehicles. Specifically, we first propose a comprehensive architecture of the ...

Drone Assisted Vehicular Networks: Architecture ...
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
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.

A D2D Multicast Network Architecture for Vehicular ...
Vehicular communications is a growing area of communications between vehicles and including roadside communication infrastructure. Advances in wireless communications are making possible sharing of information through real time communications between vehicles and infrastructure. This has led to applications...