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network, discussing vehicular network  
model technologies, mobility

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Architectures, Protocols,  
management architectures, and routing  
mechanisms and protocols.

**Intelligent Vehicular Networks and  
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– Permanent-cloud based architectures:  
Vehicles, that form a vehicular network,  
access to the cloud data centers (or  
cloud hosted in the RSUs) through

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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.

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**Vehicular cloud networks:**

**Challenges, architectures, and ...**

The PC5 standard allows a device-to-

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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.

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## **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

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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-



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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.

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## **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

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technologies for the V2X communication  
systems.

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**A D2D Multicast Network  
Architecture for Vehicular ...**

Vehicular communications is a growing  
area of communications between  
vehicles and including roadside  
communication infrastructure. Advances

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in wireless communications are making possible sharing of information through real time communications between vehicles and infrastructure. This has led to applications...

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