Abstract

The principal objective of this work is to show that ubiquitous communication, in a vehicular communication environment, is possible by exploring the existing radio access networks. Proper channel modeling is essential to utilize current network infrastructure. An overview of basic channel propagation models and fading models are presented here. Then vehicle-to-vehicle
An Overview of V2V Communication Channel Modeling

(V2V) channels are compared with cellular channels. Performance of three existing radio access networks, viz., 3G, WLAN and WiMax, in V2V communication environment is evaluated through simulation and results are shown. MALAB 7.5 is used as simulation platform.

Reference

An Overview of V2V Communication Channel Modeling


Index Terms

Computer Science
Communications
Key words

Intelligent Transportation System (ITS)
vehicle-to-vehicle (V2V) channels

Ubiquitous communication,

Doppler