

Abstract  
-Workshop "ICT for Next Generation ITS"-

**TITLE:** Status of ITS in United States

Abstract: Intelligent Transportation Systems (ITS) in the United States are based on a vehicle communication technology called Dedicated Short Range Communications (DSRC). The US-version of DSRC is based on IEEE 802.11 Wi-Fi protocols, and is different than the communication technology used for electronic toll collection in Japan. DSRC in the US has been under research and development for about 15 years. It is now reaching a mature level and is ready for deployment. The first application will be collision avoidance based on vehicle-to-vehicle communication. DSRC equipment for V2V safety is expected to be required by the US Department of Transportation (DOT) within a few years.

This talk reviews the status of DSRC technology in the US. It begins with information about the US DOT progress toward regulating DSRC for V2V safety. It then discusses an important threat to DSRC deployment related to sharing spectrum with Wi-Fi devices. Finally, it introduces another important application for DSRC: supporting automated driving.

A person attending this talk will receive a good overview of the status of ITS technology development and deployment in the United States, as well as an introduction into how vehicular communication can assist the development of automated driving.