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In recent years, vehicular telematics and infotainment applications have attracted great interest in the research community, e.g. wireless communications, intelligent vehicle technology, intelligent transportation systems, mobile computing, sensors, multimedia, etc. The vehicular systems can help improve the efficiency and safety of a system. Some potential applications include: emergency warning system for vehicles, automatic driving assistance systems, fleet management, smart road, dynamic traffic light, just to name a few. These applications have been recognized by governmental organizations and vehicle manufacturers. The Federal Communications Commission of the United States has allocated 75MHz of spectrum band around 5.9 GHz for Dedicated Short-Range Communications (DSRC), which is used for vehicle to vehicle (V2V) and vehicle to infrastructure (V2I) communications to support vehicular networking applications. Besides standardization efforts such as VSCC in North America, Car-2-Car consortium in Europe, and IEEE 802.11p working group, a number of research projects including NoW, CVIS, Fleetnet, SafeSpot, and SEVECOM have addressed vehicular telematics research around the world. Therefore, there is much interest in better understanding the properties of the related system and developing new application systems.

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- Intelligent transportation systems in vehicular network
- Multi-mode communication solutions for coexistence of cellular, broadcasting, and WLAN technologies, involving resources management, handover management, QoS provisioning, and interworking aspects
- Novel architecture and integration mechanisms
- Prototype & field tests
- Routings & protocols
- Safety & non-safety applications
- Security & privacy issues
- Telematics applications for mobile multimedia networks and mobile internet things

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