

Applications of Microwaves and Millimeterwaves for Vehicle Communications and Control in Europe

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Traffic is becoming a serious problem throughout the world, as it is a major problem in Europe. The ever increasing demand of road transportation has created negative effects related to traffic safety, efficiency and economy; for the future the protection of the environment is an additional challenge. Today it is widely accepted, that the solution to traffic congestion and increasing pollution lies in the application of advanced technologies to control and direct the flow of vehicles. Pan European projects like PROMETHEUS or DRIVE are supporting such solutions. Four major areas of applications have to be distinguished: Automatic Debiting Systems (ADS), Road Traffic Informatics (RTI), Microwave Doppler Sensors (MDS) and collision avoidance radar. Millimeter-wave systems have found an increasing interest, due to their specific advantages, as well as the lack of frequencies for new services.

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