

102. A MULTICAST ROUTING PROTOCOL FOR VANET INFORMATION RETRIEVAL SERVICES

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The Intelligent Transportation System (ITS) is aims to improve the transportation activities in terms of safety and efficiency. Vehicle-to-Vehicle (V2V) communications and Vehicle-to-Infrastructure (I2V or V2I) communications are important components of the ITS architecture. Communication between cars is often referred to as Vehicular Ad-Hoc Networks (VANET) and it has many advantages such as: reducing cars accidents, minimizing the traffic jam, reducing fuel consumption, reduces pollution etc. In vehicular adhoc network the vehicles can communicate with each other by using ieee 802.11p standard. Different routing protocols can be used to pass messages in between vehicles. In existing system, cluster routing protocol is used to exchange the data between vehicles but it has certain issues such as network overhead, transmission delay and difficult to choose a cluster head. In proposed system multicast routing protocol is used because it reduces network overhead, transmission delay and it is well suited for emergency related applications. And the simulation work is done using network simulators such as omnet++, NS2, QUALNET etc., and traffic simulators such as SUMO, MOVE etc.,
Index Terms - Intelligent transportation systems, ITS, Vehicle-to-Vehicle, V2V, Vehicle-to-Infrastructure, V2I, VANET.

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