

### **327. SAFETY MESSAGE BROADCAST SCHEME USING ALOHA TO AVOID THE CHANNEL CONJECTION IN ADHOC NETWORKS**

L.Priya, T.Dhanalakshmi

Department of Computer Science and Engineering

SKR Engineering College

Anna University, Chennai

Adhoc network is a collection of nodes that is connected through a wireless medium forming rapidly changing topologies. The adhoc network can be either constructed or destructed quickly and autonomously without any administrative server or infrastructure. In a vehicular ad hoc network (VANET), maintaining time synchronization among users is a difficult task due to their mobility. In this paper, we consider the application of safety-message broadcast in a VANET. The goal is to allow all user nodes to simultaneously broadcast safety messages to all their neighbors within transmit range. We also consider slot-synchronous single-hop broadcast and analyze the delay performance of a class of protocol sequences, which are called the generalized prime (GP) sequences. Protocol sequences are deterministic 0–1 sequences. Each user reads out the 0's and 1's of the assigned protocol sequence periodically and transmits a packet in a time slot. It requires no time synchronization among the users. By scheduling the data packets according to a certain deterministic pattern, which is called protocol sequence by Massey and Mathys, a reduce in delay can be accomplished.

Index Terms— Adhoc Network, ALOHA, Protocol Sequences, VANET

*Journal of Science and Innovative Engineering & Technology*