## **Abstract Details**

Title: Prioritized Markov Chain Model in VANET

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**Abstract:** The design of robust congestion control mechanism that guarantees reliable and timely dissemination of safety related messages in VANET can be achieved by reducing the transmission rate of beacon messages reactively. Due to reactive congestion control mechanisms, the actions are taken only after the congestion is detected. To cope with this problem, existing proposes four stages based solution in which existing first assign different priorities to messages according to their contents. Secondly, we monitor the nodes' buffers during a predefined interval T. Thirdly, apply a congestion detection mechanism based on a Markov chain to predict congestion in VANETs. Finally, a vehicle adjusts its beacon transmission rate, according to the result obtained from the previous step, to assist the propagation of the emergency messages. This process leads to delivery of the normal message effectively but the high priority message i.e. accidental message delivery gets late. This work introduces phenomena that check the message type to deliver the normal and the high priority message effectively.

Keywords: Vanet, Markov Chain, Congestion Control