



Safety traffic system using VeMAC protocol in VANET

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Lecture Outline

Safety traffic
system using
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protocol in
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Outline

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What is VANET?

- VANET stands for Vehicular Ad hoc network.
- Each node within VANET act as both, the participant and router of the network.
- VANET are self organizing network.



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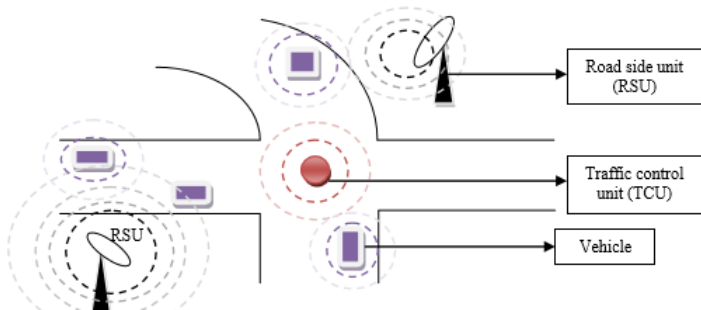


Figure: Overview of VANET



What is VeMAC ?

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- VeMAC is a contention-free multichannel MAC protocol proposed for VANETs.
- VeMAC supports the multihop broadcasting.
- VeMAC has improved rate of throughput in message transfer between vehicles.



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Literature Survey

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- Previous research works regarding warning messages have focused on three issues:
 - 1 medium access control
 - 2 message dissemination protocols
 - 3 collision prevention mechanisms.



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- Some Authors also proposed a efficient IEEE 802.11 based Urban Multi-hop Broadcast protocol (UMB) which was designed to address the broadcast storm.
- They showed that this protocol had a very high successrate and efficient channel utilization.



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Methodology

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Proposed System

- In our system damaged vehicle periodically broadcast the safety warning message to the neighbors vehicles they receives that message stores and re-broadcast it.
- The purpose is to provide the insurability in situations where transactions must be completed in time frames.



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- The proposed warning advertisement system is composed by the damaged nodes that send warning messages periodically (warning) to inform about their situation to the rest of the vehicles.



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- The size of the packets sent does not affect the warning advertisement systems behavior.
- We expect, the propagation delay is lower when node density increases. Besides, the percentage of blind nodes highly depends on this factor.



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- The parameter values of VeMAC protocol, such as the slot duration and the time slot per frame still need further improvement since that parameters affects the VeMAC performance such as some delivery delay, probability of transmission collision of message.



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Thank You...

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