Enhancing Security in VANET in terms of Confidentiality and Authentication

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Abstract

VANET is very useful for solving traffic related problems and provide safety to life's of
Drivers and passengers moving on the road, In this paper the proposed algorithm is helpful in
authenticating a user and Solving Traffic related problems and provide more efficient broadcast
system by covering Large distance. According to this Approach Vehicles can communicate with
RSU, but there is no Vehicle to vehicle Communication. RSU can communicate with each other
and update their information to the nearest RSU (NRSU), after that the emergency broadcast is
also done by the NRSU. For security reasons we consider Vehicle numbers as their
pseudonym and apply a new approach to authenticate the user, So that no unauthorized user
can broadcast and send any false information to RSU. The public Key Cryptography is used to
encrypt the communication between Vehicles and RSU.

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Index Terms
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Keywords
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Vehicle number