Enhancing Security in VANET in terms of Confidentiality and Authentication

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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Keywords
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