Abstract

In past few years, Vehicular Ad-Hoc Network (VANET) has seen advances in research. Content sharing through vehicle-to-vehicle communication can help people find their interested content on the road. VANETs allow peer-to-peer content distribution of data items such as traffic information, audio, video and other such information. Reliability, security and fast communication are the dire need for today’s technology used in VANETs for inter-vehicular communication. In this paper a model is proposed which satisfies the above mentioned parameters. The proposed mechanism uses network coding for reliability and homomorphic hash function for security. A reliability bit is also included. It is set for safety messages to make delivery of safety messages reliable while it is not set for comfort messages.

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Securing Peer to Peer Content Distribution Network based on Network Coding in VANETs

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Index Terms

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Keywords

VANET  Network Coding  Homomorphic hash function