A Trust Management Scheme for Securing Transport Networks

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Abstract

VANET (Vehicular Adhoc Network) a wireless communication network between the vehicles without the need for any network administrator and network infrastructure. Wherein the recent years exchanging information, security and privacy are the most important concerns. To increase the efficiency of road transportation, automobile manufacturers integrated wireless networking into vehicles called VANETS. Vehicular information provided by the different vehicular nodes in the wireless network should be trustworthy all the times. Due to the different attacks possible in the VANET, some nodes may possibly act as malicious. These malicious nodes are handled on the way towards secure and reliable data. In this paper Fuzzy logic trust model is proposed to deal with uncertainties, unreliable, inaccurate and imprecise information collected by vehicles in the VANET. It conducts a series of security checks to make sure of the correctness of information from the authorized vehicles.

References


Index Terms

Computer Science       Security
Keywords

VANET (vehicular Adhoc Network), RSU (Road Side Units), IDS (Intrusion Detection System), security, privacy, ART (Attack Resistant Trust Management), fuzzy decision making logic.