

ABSTRACT

Vehicular Ad Hoc Networks (VANETs) have received increasing attention from the research and industrial communities recently many valuable applications such as entertainments, Congestion Control, and accident avoidance have been envisioned or planned in VANETs. Vehicle-to-Vehicle (V2V) and Vehicle-to-Infrastructure (V2I) are two major types of communications in VANET.

propose a new detection approach called GDVAN (Greedy Detection for VANETs) for greedy behavior attacks in VANETs. The process to conduct the proposed method mainly consists of two phases, which are namely the suspicion phase and the decision phase. The suspicion phase is used on linear regression mathematical concept while decision phase is based on a fuzzy logic decision scheme. The proposed algorithm not only detects the existence of a greedy behavior but also establishes a list of the potentially compromised nodes using three newly defined metrics