Abstract

When Vehicles communicating among themselves, and communicating to devices located in the margins of roads and highways form Vehicular Ad hoc Networks (VANETs) that are a suitable type of Mobile Ad hoc Networks (MANETs). VANET can go up to a high speed of network nodes that can go up to 200 km/h, and which impacts directly on the capability the network has to deliver data, we can have a network formed for a small amount of time. Ant-based routing can be successfully incorporated to both wireless and wired networks as it has been checked it various tests. This work set ups to propose Ant Colony Optimization (ACO) methodologies that take advantage of information available in vehicular networks such as the vehicles’ position and speed, in order to design an ant-based algorithm that performs well in the dynamics of such networks and adapts to the conditions appropriately.
Methodological Analysis of Inter VANET Data Handovers with Metaheuristic Algorithms


2. Yacine Khaled, Manabu Tsukada, Jos’e Santa and Thierry Ernst 2009, On the design of efficient Vehicular Applications, IEEE.


10. Ikbal Chammakhi Msadaa, Pasquale Cataldi and Fethi Filali, 2010 A Comparative Study between 802.11p and Mobile WiMAX-based V2I Communication Networks, Fourth International Conference on Next Generation Mobile Applications, Services and Technologies,.  


17. Jong Min Lee, M Young Ju Yu, Young Hun Yoo, and Seong Gon Choi, 2008 A New Scheme of Global Mobility Management for Inter-VANETs Handover of Vehicles in V2V/V21 Network Environments,” Fourth International Conference on Networked Computing and
Advanced Information Management.

18. Bernabé Dorronsoro, Patricia Ruiz, Grégore Danoy, Pascal Bouvry, and Lorenzo Tard´on, 2009 Towards Connectivity Improvement in VANETs using Bypass Links, IEEE.


20. Prof. Fuqiang Liu, 2012 Simulation and Improvement of the Handover process in IEEE 802.11p based VANETs (Vehicle Ad-hoc NETworks), An article, Pablo Urmeneta College of Electronics and Information Engineering, Tongji University.

Index Terms

Computer Science Wireless

Keywords

VANET, MANET, ACO.