**Reading Summary:** GeoMobCon: A Mobility-Contact-Aware Geocast Scheme for Urban VANETs

**Student Name**,

Zengyang Gong from Shenzhen University

**Submission Date**

**1 The Problem(s)**

This paper expand the successful delivering messages method Geocast in mobile network to a new method named GeoMobCon which is very suitable to the high mobility and large-scale urban vehicular ad hoc network.

This problem is very important, because it connected the virtual mobile network with the urban network in the real physical world. And at the same time, this work also consider many factors that are obviously different from the mobile network.

**2 Main Idea(s)**

In order to make GeoMobCon effective in the large-scale complex vehicular ad hoc networks, it take both taxis and buses into consideration. As for each kind of vehicle, this work has mined two levels of mobility patterns: macroscopic and microscopic. When a message is generated, GeoMobCon calculated an optimal routing path (a sequence of urban regions), and then an individual vehicles’ microscopic mobility and its contact history with the destination of this message determine whether this vehicle can forward this message on the optimal path.

**3 Major Strengths**

Please list at least three most important things in this paper. Why do you think they were important at the time of

paper publication? How about now?

1. Although I am not very familiar with the researches about Delay-tolerant networks and geocast, but the thoughts that transform the technology from one research area to another and make it still suitable for the new problem is very enlightening for the future work.
2. This work is very detailed and accurate for the high mobility and large-scale urban network modeling, has both taken taxis and buses into the network. Besides public macroscopic mobility patterns, each vehicle has his own microscopic pattern.
3. 虽然我对网络通信的问题不是很了解，但是这种从一个领域迁移到另一个领域的研究方法很值得借鉴
4. 两种车两种模式，同时每辆车上还有buffer space，问题抽象准确，正确模仿了真实的世界。
5. Cell分割城市比vertix分割城市能够降低计算开销同时更能够抓住交通规律

**4 Major Weaknesses**

Please list at least three things you think may need further improvement in this paper. Has the improvement

appeared in the follow-on work already?

1. 对城市的划分是一个固定的cell
2. Bus和出租车的数据不重叠
3. 对于GeoMobCon在实际生活中有什么应用没有介绍

**5 Possible Improvement**

Do you have some ideas of your own on this problem? Can you do something better or differently? How can you

show that?

1. 城市划分利用我的论文中的方法
2. Balance the profit between the drivers and charging service provider