

Summaries of Papers on Urban Transportation

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1 Vehicular Networks in Urban Transportation Systems & MDDV: A Mobility- Centric Data Dissemination Algorithm for Vehic- ular Networks

In these closely related papers, the authors describe their design and test of a network enabling smart cars. They argue that a significant challenge associated with achieving useful smart vehicles is to have a strong and reliable networking system between them. In the second paper, they present MDDV, which they assert can be that network. They develop the algorithms mostly for Vehicle to Vehicle, or V2V, systems. They differentiate V2Vs from traditional ad-hoc networks due to the mobility of nodes, and the possibility to be highly partitioned, among others. MDDV takes on these challenges with an approach that “combines opportunistic forwarding, geographical forwarding, and trajectory based forwarding” of information. Furthermore, they tested this system using prototype hardware in the Atlanta metro area, with promising results.

2 Paper

3 Paper