Christian Schindelhauer

Chia Ching Ooi

Discussion Topics for Literature Review I
Ad Hoc Networks - Mobile Ad Hoc Networks
Winter 2007/2008

Mandatory Reading
Ram Ramanathan, Jason Redi. A Brief Overview of Ad Hoc Networks: Challenges and Directions. In: IEEE Communications Magazine, 40(5):20-22, May 2002.

Optional Reading
Imrich Chlamtac, Marco Conti, Jennifer J.-N. Liu. Mobile Ad Hoc Networking: Imperatives and Challenges. In: Ad Hoc Networks 1(1):13-64, 2003.

Discussion Topic
For the first homework, no specific questions will be asked about the reading. Instead, we would like you to give some of your own thoughts after reading the overview paper. You can write anything you like about MANET. For instance, it might cover (but not limited to) the following scopes:

1. How to distiguish a MANET from a classical mobile wireless network (e.g. a WLAN or cellular network)? What are its advantages or/and disadvantages?

2. What are the differences between mobile ad hoc network, wireless sensor network, mesh network?

3. What are the open problems?

4. Which of the problems already have good practical or/and theoretical solutions?

5. From your point of view, what are the potential applications of MANET? Did you find any existing MANET applications?

6. In what aspect will MANET impact our daily lives? You can provide some example scenarios.

7. If you were going to work on research in MANET, which problems would you choose and why? How would you approach them?

Lastly, please state the references (papers, links, books, articles, video, etc.) you use for completing your answers, if any.

Notes

- You can submit your answer sheet(s) via email (ooi@inform@tik.uni-freiburg.de) or handing in the hardcopy in the class.

- It does not matter which word processor or software you use to produce the answers, though LaTex is highly recommended (You'd find how powerful the tool is.).

- There is no restriction on the length of your answers.

- Grade is given based solely on your answers.

- No late submission will be accepted.