

WMAN 2005 – My Summary

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Introduction

- Matthias Frank opened the workshop



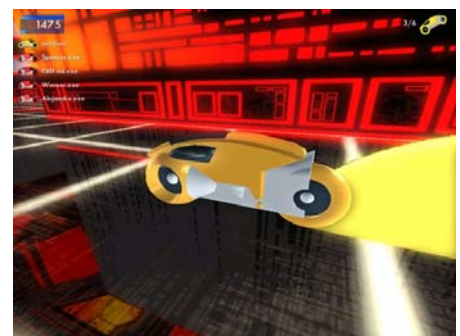
Keynote on Car 2 Car Comm.

- Wired C2C – is this a good idea?
- Good motivation: prevent accidents
- But: How to reach reasonable market penetration?
- Intermediary applications (not multi-hop VANET)
- Standardization is on the way
- VANET: One of the (few) promising application domains for MANETs
- Multiple radios might make communication a lot easier!
- Of course: security problem but few answers



Forking Agents in Sensor Networks

- Efficiently find information in a WSN
- Are WSN Ad hoc Networks?
 - Energy makes the difference
- Learned, what Tron has to do with Sensor Networks
- Relation to ant-computing in ad hoc network





Geocast Routing – Performance of LBM and GeoGRID

- Disaster Recovery as another application for MANETs. Will it come?
- Why real-time traffic? Status updates?
- Lot of practical work (traffic modeling, ...)
- LBM performs better (in terms of PDR) than GeoGRID → easy is better
- Security in Disaster Recovery?

Where was the coffee?





Security Extensions to MMARP Through CGA

- Securing Multicast Routing
- Lot of Work for Unicast!
- Situation different for Multicast
- No PKI needed? What about nodes generating multiple identities?



Requirements for Privacy-Enhancements in Mobile Ad Hoc Networks

- Privacy in MANETs:
Personal data and location information
- Approach: Anonymizing overlay networks
- Analysis of existing solutions for fixed networks revealed:
we need something new



Identities in MANETs

- Well ...



Quality of Service for MANETs connected to the Internet

- Stub Ad hoc Networks and Media Transfer
- Complex problem
- We don't want IntServ in MANETs!
- DiffServ?
- Swans and MANET
- QoS-enabled Networks remain complex



The End

- Lessons learned?
- MANET research gets more mature
 - Security
 - QoS
 - Applications (VANET, Disaster Rec.)
- Still waiting for the killer app and deployment