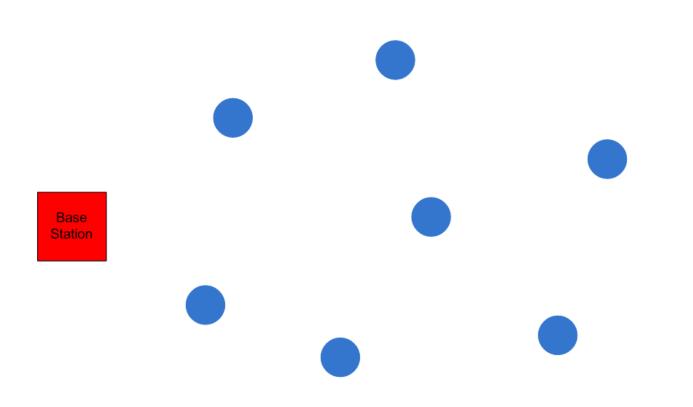
Improving the Data Delivery Latency in Sensor Networks with Controlled Mobility

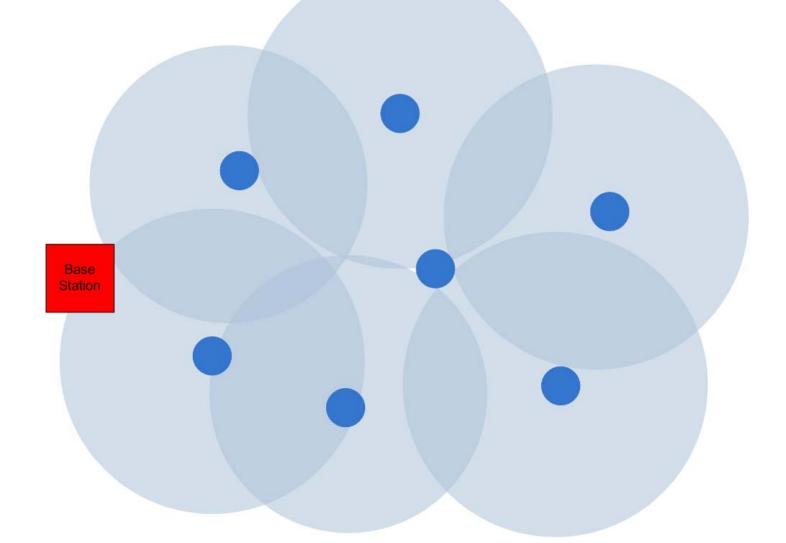
Seminar: Ad-hoc networks Juri Lichtner 15.Dec 2008

Albert-Ludwigs-University of Freiburg Faculty of Applied Science Institute of Computer Science Department for Computer Networks and Telematics

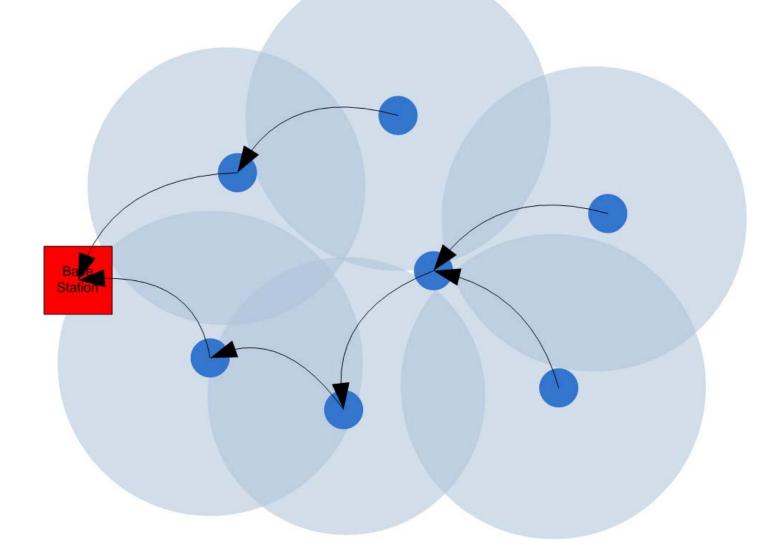
Multihop-Sensor-Network



Multihop-Sensor-Network



Multihop-Sensor-Network



Problems of Multihop-Sensor-Networks

High energy consumption

- Continual data forwarding
- Long communication ranges
- Complex algorithms

Solution: Introduction of a mobile data collector (Data Mule)

Sensor-Network with Controlled Mobility

Base Station

Sensor-Network with Controlled Mobility

Base Station

Contributions in this paper

- Formulation of the path selection problem
- Finding an appropriate cost metric
- Giving an approximation algorithm
- Comparing with previous approaches