

Aerial Communication Support for Highly Intermittent Ad Hoc Networks

Motivation

Civilian post-disaster communication systems possible over ad hoc communication

- Short-range multi-hop communication required
- Intermittent networks cannot communicate
- UAVs can transport messages between networks

Challenges

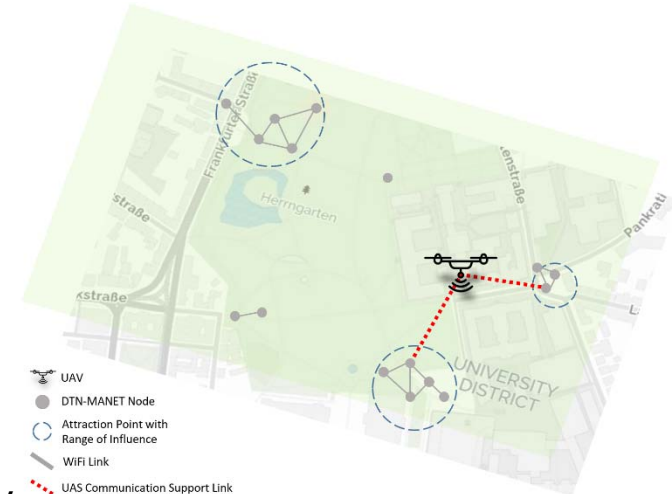
Collect network information, establish and maintain efficient communication links

- Continuous large-scale network monitoring necessary
- Uncontrollable behavior of civilians, dynamic topology
- Limited bandwidth for coordination

Contribution

Adaptive Aerial Communication Support System

- Combination of in-network and aerial monitoring
- Information evaluation for strategy adaptation



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