



Dr. Shengli Fu

Department of Electrical Engineering

Associate Professor and Chair

Coding and Information Theory, Wireless Communication, Aerial Communication, UAV networking

Research Group: 2 Ph.D. and 3 M.S. students

Airborne Networking



Applications

- On-demand communication infrastructure for *emergency response*
- Next-generation air traffic control
- Many multi-drone applications

Coding and Information Theory

- Space-time coding
- Multiple-input and Multiple-output system
- Cooperative Communication

Aerial Communication

- Drone-carried WiFi system
- UAV swarm and networking
- Long-range and broadband communication with directional antennas