Microwave and Communication Networks Laboratory

Department of Engineering and Architecture
University of Trieste, Italy

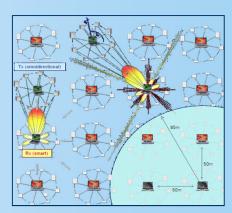


Research (I)



□ Gigabit-WiFi and 5G networks

- 2D/3D stochastic geometry modeling
- multi-packet peer-to-peer communication
- massive MIMO
- adaptive voice/video retransmission
- software defined radio
- channel coding





□ Ranging in 4G LTE networks

- theoretical bounds
- estimation algorithms

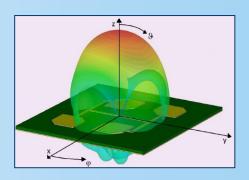


Research (II)



□ CubeSat systems

- advanced random access
- mmWave antenna design



□ Fast 2D/3D conformal/sparse antenna array synthesis

- far/near-field, polarization, dynamic range ratio control
- reconfigurability
- fractal antennas

□ Free Electron Laser (FEL)

interaction between electromagnetic fields and relativistic electrons



Dept. of Engineering and Architecture

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Group



Collaborations









































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