Wireless Communication Systems Area (Sampei Lab.)

Sampei lab.

Division of Electrical, Electronic and Information Engineering, Graduate School of Engineering

Topics: *"Design for future wireless communication systems, concentrating elemental technologies in four research topics"*

HET: *Heterogeneous Networks*

- Wireless integrated network
- Radio Resource Managements
- C-plane / U-plane Separation

MSP: *Multi-dim. Signal Processing*

- Iterative detection via belief propagation
- Stochastic massive MIMO detection
- Extrinsic Information transfer analysis

Future Wireless Communication

- Massive connections for IoT devices
- Readiness and reliability
- ISM coordinator on MAC protocol

IoT: *Internet of Things*

- Cognitive sensing
- Localization and individual identification
- Machine learning

COG: *Cognitive function*

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