

# Radio Frequency Fingerprinting & IoT Sensor Networks

## About Us

### Institute for Applied Informatics:

Our focus is on application-centered research in various ICT fields.

- 5G/6G campus network and testbeds
- software defined radio (SDR)
- AI-based radio signal analysis
- drone applications and security
- web applications



### Deggendorf Institute of Technology:

- 9500 students
- 500 professors & researchers
- 17 innovation and technology campuses within the region

## Project Ideas

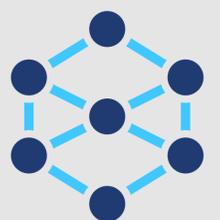


**Radio frequency fingerprinting:** unique identification of individual transmitters based on their radio signals

- unique identification of transmitters even among same make and model
- applications in physical layer security
- focus on practicability aspects and real-world challenges

### IoT sensor networks:

- mesh networks and combination of multiple communication protocols
- mission critical and resilient communication
- data-fusion for low-cost sensors to replace or augment expensive systems



## Other Possible Contributions

- AI-based radio signal analysis and Edge AI in combination with SDRs
- mission critical and resilient communication
- drones in security and application context
- software-RAN and AI-based RAN configuration

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