

FACULTY MENTOR Peter Gerstoft

PROJECT TITLE

Acoustic Room Characterization and Speaker Tracking with Google Voice

PROJECT DESCRIPTION

Description: We have 8 google voice antennas each with 8 microphones in a circular array, they upload the received signal to a server. We will like to do DSP and machine learning on the received signals. We are interested in using the received noise signal to characterize the room and track speakers

This project can accommodate both remote and in-person students.

INTERNS NEEDED

2 Students

PREREQUISITES

1. MS student with interest in signal processing and machine learning



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PROJECT TITLE

Machine Learning for Radio Frequencies

PROJECT DESCRIPTION

Description: Machine Leaning approaches for automated detection and characterization of radio frequency (RF) anomalies in complex RF environments. This could be using RF arrays to detect these. Algorithmic development or using hardware (Ettus N310 and Signal Hound) would be of interest.

This project can accommodate both remote and in-person students.

INTERNS NEEDED

2 Students

PREREQUISITES

- 1. MS student with interest in signal processing and machine learning
- 2. Mostly in person