Master's Thesis

Optimal and Proactive Communication Resource Allocation

The goal of the thesis would be to build an Anticipatory or Proactive Wireless Resource Allocation Framework to optimize Multi-hop, Multi-path networks.

The approach is to develop and solve an optimization problem to allocate network resources to users by looking into window of time in the future. By knowing the channel quality of the users in the future, a better, more optimal allocation of resources is made possible.

Related Reading:


If you are interested in this work, please send me an email with a short introduction of yourself along with your CV and grade transcript.

Prerequisites

- Strong Python programming skills
- Strong foundation on wireless communications
- Experience with optimization problems

Contact

hansini.vijayaraghavan@tum.de

Advisors

Hansini Vijayaraghavan