

Research Project or Master Thesis- TSN over 5G

Chair of Communication Networks
TU Chemnitz

April 18, 2024

Introduction

Exciting thesis opportunity in networking and communication, focusing on Time-Sensitive Networking (TSN) standards and 5G Systems integration, particularly IEEE 802.1Qbv and challenges in 5G networks.

Background

TSN and 5G integration presents unique challenges for QoS in mission-critical applications, enhancing reliability and latency in advanced 5G networks.

Research Objectives

Develop and extend an optimization scheduling model for TSN-5G networks to address 5G's indeterminism using gamma robust scheduling techniques.

Candidate Profile

- Took the elective course 'Optimization for Non-Mathematicians'
- Took the course 'Mobile Networks'
- Knows Python
- Knows or is interested in Deep Learning / Reinforcement Learning
- Used Omnet++

Apply

Highly motivated students interested in cutting-edge research, send *CV* and *Leistungsübersicht* to syed-tasnimul.islam@etit.tu-chemnitz.de with subject: Application for TSN-5G Thesis/Research project.