Implementation of Scheduling and Slicing Algorithms in OpenAirInterface

Network slicing is a new emerging technique introduced in 5G to boost network performance and accommodate the new heterogeneous requirements of upcoming applications. To this end this has attracted a lot of attention in the state-of-the-art where there is vast of ongoing research in resource allocation and network efficiency in the RAN domain.

The focus of this thesis will be on development and implementation of heuristic approaches for increasing efficiency in resource allocation and network performance.

Prerequisites

- Strong mathematical background.
- Solid programming skills (python, matlab, c++).
- Knowledge of optimization techniques is a plus.

Advisors

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