

Master's Thesis

Scheduler Agnostic Slice Manager with Deep Reinforcement Learning

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 implementation of an event based slicing simulator and built-up of a deep reinforcement learning framework that interacts with the schedulers of the event based simulator. The final goal is the ability to predict the scheduler type and adjust the scheduling decisions accordingly to boost the network performance.

Advisors

Arled Papa, Murat Gürsu