

Assistant (Student)

Solving the manufacturer assignment problem to maximise availability of a network using centrality metrics

Availability is the probability that a device performs its required function at a particular instant of time.

In most networks, the components are brought from different manufacturers. They have different availabilities. Network operators prefer having reliable components handling more traffic. This ensures the robustness of the network. So, assigning appropriate manufacturers to the components in the topology to guarantee maximum availability is essential.

In this work, the student uses centrality metrics to identify the critical nodes and assign manufacturers based on these metrics.

Prerequisites

Mandatory:

- Kommunikationsnetze course at LKN
- Python

Contact

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Advisors

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