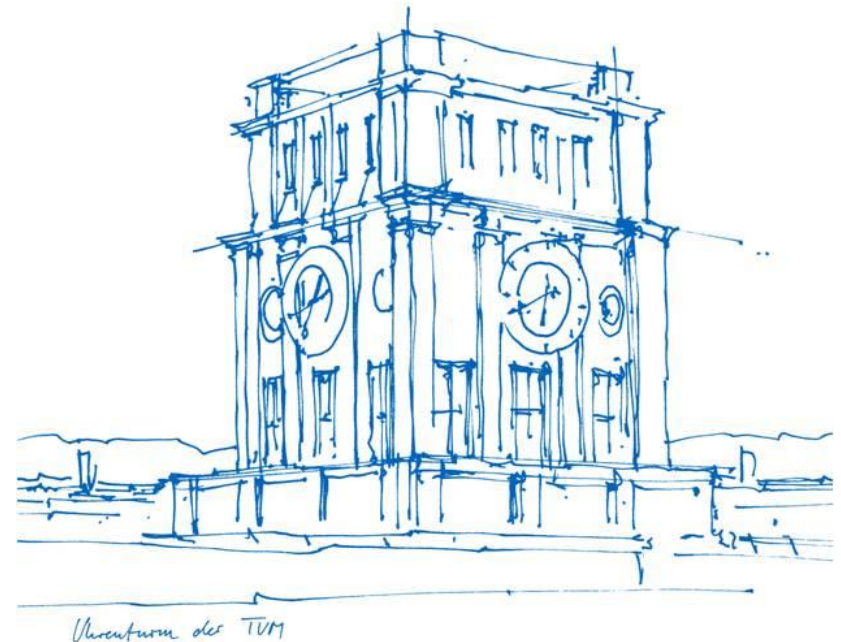# The Robotaxi Fleet Management Tool of the Future ✨ – by the Delamain Corporation

Lena Elisabeth Holtmannspötter, Emil Jeleskovic, Xuanqi Meng and Felix Schnabel
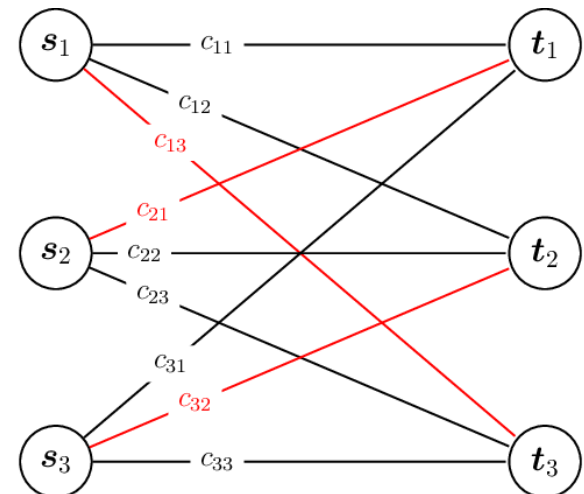
HackaTUM

Garching, 24.11.2024

Uhrenturm der TUM

Our patented Optimization Algorithmen

Features:

- Core of the algorithm: Cars are allocated based on a minimum average waiting time

- Hunger-avoidance: Inspired by the Linux Kernel scheduler, we build a prioritizing allocation algorithm.

- Energy-biased: To ensure vehicle longevity and protect the planet, a penalty is applied to over-utilized vehicles

- Utilizing linear sum assignment to achieve a global minimum of average waiting time or to serve as a heuristic search tool for finding the best solution.

Live Demo