Implementation and Evaluation of a Resource Management framework for Flying Airplanes

Internet-based services are demanded by onboard passengers on airplanes. These services must communicate to the ground to access the service endpoints. However, selection of the service endpoints, along with QoS-guaranteed routing can be a challenging task.

In this work, we plan to develop and implement an algorithm based on Simulated Annealing or Tabu Search metaheuristic to solve a multi-period service assignment and routing problem for Internet-based services in airplanes. For more details, please send an email.

Prerequisites

Experience in Python or Java, Optimization, Algorithms

Contact

amir.varasteh@tum.de

Advisors

Amir Varastehhajipour