At the Chair of Logistics and Supply Chain Management of TUM School of Management we are looking for interested and qualified students to conduct their Interdisciplinary Project on the topic: Metaheuristics for Vehicle Routing Problems.

The Vehicle Routing Problem, formulated in the 1950’s, builds the backbone of delivery planning in logistics and is therefore widely used. One drawback of the VRP is its NP hardness. For that reason, several metaheuristics have been designed to find near optimal solutions to the VRP in reasonable time. The goal of this project is to develop a solver for the VRP that uses a selection of these metaheuristics.

Selected research tasks:
- Definition of input standard
- Implementation of selected metaheuristics (Java)
- Evaluation of the methods
- Development of a web-based frontend
- Graphical representation of the results

Requirements:
The project is for students of the Master’s program of Informatics. Qualified candidates have basic knowledge in logistics and are familiar with Java, C, C# or similar as well as JavaScript and PHP. Knowledge of Fico Xpress or CPLEX is of advantage. The ability to work independently as well as analytical skills are required. The thesis should be written in English.

Begin: Winter term 2017
Advisor: Szymon Albinski
Application: Email with curriculum vitae and transcripts of records to logtheses.wi@tum.de