



Bachelor-, Master- und Doktorandenseminar
des Instituts für Informatik

Transportation Data Modeling and Pareto Optimal Path Finding in Road Networks with a Graph Database

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The propose of this thesis is to introduce an approach for finding the Pareto optimal paths of large graphs which minimizes a set of criteria using graph databases. This is done by deeply investigating graph database capabilities. The criteria to be minimized can be travel duration, travel cost, number of changes, or other related properties. Also for each path p a risk will be introduced which is the probability of reaching the destination using path p considering delays and changes which will be computed during the graph traversal.

In addition a new solution for transportation graph data modeling in Graph databases will be introduced which utilizes graph database capabilities to achieve the best possible performance and reduces resource consumption.

Mittwoch, den 23.11.2016, 17 Uhr s.t. im
Besprechungsraum 106, IfI, Julius-Albert-Straße 4