

VORTRAG

"Answering questions related to the One-Commodity Pickup-and-Delivery Travelling Salesman Problem with Stochastic Demands"

Prof. Salazar Gonzalez Juan Jose
University de La Laguna

Mi, 31. 01. 2007, 10.00 Uhr
HS 8 / BWZ

Abstract :

This seminar discusses the one-commodity Pickup-and-Delivery Travelling Salesman Problem where some of the customer demands are stochastic. It first considers feasibility issues. This includes finding the smallest vehicle capacity and some initial load such that a given tour is feasible for all scenarios. Different variants are considered, as a function of the moment when the information becomes available. The seminar then analyzes the case where some penalties are paid for routing a tour unable to handle customer demands. Various types of penalties are considered. The seminar illustrates properties of the minimal expected penalty of a given tour, which are then used to provide approaches to find near-optimal tours. Computational results are presented.

The seminar is based on a joint research work with F.V. Louveaux (University of Namur)