

VORTRAG

Consistent Vehicle Routing with Large Neighbourhood Search

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Abstract:

I will discuss two real-world variants of the Consistent Vehicle Routing Problem. The problems arose in the context of daily delivery of bread in Sydney Australia. The weekly problem is solved - that is, each customer has multiple visits, one for each day they need a delivery. In one variant there is a hard constraint that customers are visited by the same driver each day. In the second there is a further constraint that the customers are visited in the same `_order_` each day.

I will also describe the Large Neighbourhood Search method used, and discuss its benefits when embedded in a Constraint Programming Framework.