1. Customer i has a time window , service time

2. Travel time from customer i to j is

3. Depot has a vehicle dispatch window , and I duplicate the depot into two nodes, node 0 and node 0’.

(In GAMS and Gurobi, I let the first node to be the departing terminal (node 0) and the last node to be the arriving terminal (node 0’).

Decision variables:

if node j follows node i in the tour of vehicle m; 0 otherwise.

service start time for node i by vehicle m

(Only the conductor which departs from the depot can visit other work events.)