

# Fast Heuristics for Delay Management with Passenger Re-Routing

Twan Dollevoet and Dennis Huisman

14.06.11

## **Zusammenfassung**

Delay management models determine which connections should be maintained in case of a delayed feeder train. Recently, delay management models are developed that take into account that passengers will adjust their routes when they miss a connection. However, for large-scale real-world instances, these extended models become too large to be solved with standard integer programming techniques. We have therefore developed several heuristics to tackle these larger instances. We compare the quality of these heuristic solution methods on real-life instances from Netherlands Railways.