

Railway Crew Rescheduling With Retiming

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Railway Crew Rescheduling With Retiming

The first contribution of this paper is a new formulation for railway crew rescheduling with retiming, where the retiming options are modeled as discrete alternatives. Moreover, we show how to adapt the solution approach of Potthoff et al. (2010) in order to keep the increase in computation time for the extended model moderate.

Railway crew rescheduling with retiming - ScienceDirect

Huisman et al. developed column generation approaches to reschedule rail crew [18] and solved the combined crew rescheduling problem with retiming of trips by allowing small changes to the train ...

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Railway Crew Rescheduling with Retiming Lucas P. Veelenturf¹, Daniel Potthoff², Dennis Huisman³, Leo G. Kroon^{1;3} ¹Rotterdam School of Management and ECOPT, Erasmus University Rotterdam, P.O. Box 1738, NL-3000 DR Rotterdam, The Netherlands ²Econometric Institute and ECOPT, Erasmus University Rotterdam, P.O. Box 1738, NL-3000 DR Rotterdam,

Railway Crew Rescheduling with Retiming

This problem extends the crew rescheduling problem by the possibility to delay the departure of some trains. In this way we partly integrate timetable adjustment and crew rescheduling. The algorithm is based on column generation techniques combined with Lagrangian heuristics. In order to prevent a large increase in computational time, retiming is allowed only for a limited number of trains where it seems very promising.

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Railway Crew Rescheduling With Retiming

Railway crew rescheduling with retiming. Railway operations are disrupted frequently. For example, the Dutch railway network experiences about three large disruptions per day on average. In a disrupted situation, a railway operator needs to quickly adjust the timetable and the resource schedules.

Railway crew rescheduling with retiming

"Railway Crew Rescheduling with Retiming," Econometric Institute Research Papers EI 2009-24, Erasmus University Rotterdam, Erasmus School of Economics (ESE), Econometric Institute. Dennis Huisman & Richard Freling & Albert P. M. Wagelmans, 2004.

The Vehicle Rescheduling Problem with Retiming

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Railway Crew Rescheduling with Retiming (2009) | www.narcis.nl

Veelenturf et al. (2012) extend the railway crew rescheduling problem by introducing retiming. Delay possibilities are incorporated into the problem by introducing copies of tasks that need to be executed, each with a different starting time.

The vehicle rescheduling problem with retiming - ScienceDirect

Railway operations are planned in four levels of hierarchy: (i) strategic, (ii) tactical, (iii) operational control and (iv) real-time control. Scheduling is an initial time allocation of resources to meet demands in completing a task and rescheduling is a later modification of such resource allocations. An extensive set of some major railway scheduling and rescheduling operations as published ...

Scheduling and Rescheduling of Railway Operations: A ...

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Freight railway crew scheduling consists of generating crew duties for operating trains on a schedule at minimal cost while meeting all work regulations and operational requirements. Typically, a freight railway operation uses thousands of trains and requires thousands of crew members to operate them.

Optimizing Railway Crew Scheduling at DB Schenker ...

Railway Crew Rescheduling with Retiming. Article. Jan 2009; Lucas Petrus Veelenturf. Daniel Potthoff. Dennis Huisman. Leo G. Kroon. Railway operations are disrupted frequently, e.g. the Dutch ...

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