



Neues verkehrswissenschaftliches Journal - Ausgabe 18

By Jiajian Liang

Books On Demand Aug 2017, 2017. Taschenbuch. Condition: Neu. Neuware - A railway system is a complex system. With the assistance of a railway operation control system, railway traffic is managed according to an operation plan. During the operation process, especially in railway networks with complex topology and high traffic flow, disturbances are likely to occur, which may result in severe deviations of train movements from the pre-designed operation plan. Once conflicts have occurred or potential conflicts between trains have been detected, suitable dispatching actions should be executed to minimize the negative impacts of the disturbances. In order to support dispatchers, a dispatching optimization algorithm was developed in this dissertation. In the development of dispatching models, two aspects need be considered: modelling of railway operation and the dispatching optimization algorithm. The former is indispensable to accurately assess the impact of disturbances, and the latter is employed to find solutions with minimal impact. In order to balance accuracy and computation complexity a multi-scale simulation model was developed in this dissertation. Dispatching optimization is a typical combinatorial optimization problem, and exhaustive search becomes impractical when there is a large set of possible dispatching solutions. To speed up the search, a widely used...



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