

Construction of Method for Creating Energy-saving Rescheduling Timetable for Small-scale Delays

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We constructed a method for creating energy-saving rescheduling timetables for small-scale delays using mathematical optimization. In the constructed algorithm, the rescheduling timetable is converted into an energy-saving rescheduling timetable by reducing the powering energy and increasing the regenerative energy. We considered passenger convenience under the condition that the total time from the starting station to the terminal station of each train does not change. This paper describes the details of the method for creating energy-saving rescheduling timetables and reports the results of a case study using real line data.