Development of the Algorithm for Train-set Scheduling

Naoto FUKUMURA Tatsuya NAKAMURA Sinya NISHIMORI Takashi SAKAGUCHI

Train set scheduling is one of the most important works in preparing train transportation plan. At present, human experts prepare this schedule, and it takes a lot of time and labor, because train set scheduling is a very difficult work. So, we have developed an algorithm to prepare train set scheduling automatically. We applied probabilistic search method to this algorithm. In this paper, first, we explain about train set scheduling, and then we show how to apply a network model to this problem. Lastly we explain the outline of our algorithm, and show the test result of applying this algorithm to an actual train schedule data.