

## **Automatic Generation of Maintenance Worker Scheduling at Rolling Stock Depot**

Satoshi KATO      Tatsuya KOKUBO      Taichi NAKAHIGASHI

This paper proposes an automated scheduling method for maintenance worker at rolling stock depots. Maintenance worker schedules at rolling stock depots are daily plans assigned to teams of maintenance worker for tasks such as cleaning rolling stock and performing inspection during turnaround operations of superior trains. The effectiveness of the proposed method is evaluated by comparing the schedules it generated with actual schedules, and those generated by a mathematical programming method, and a local search method. The results indicate that the proposed method generates maintenance worker schedules that satisfy high priority relaxable constraints within a practical computation time.