

Validity Improvement of the Prediction Method of Workload Evaluation for Train Drivers

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In 1998, JR developed scales to evaluate train drivers' workload considering off-duty hours. The developed scales are based on "Ohshima's Table of Workload and of Sleep Effect" as well as weighted by empirically estimated effects of duty types and rest conditions. The authors carried out a study to improve the validity and expand the functions of the foregoing scales. The studies consist of analyses of data collected by the train driving simulator experiment and the results of field investigation. Based on the results analyzed, new scales were developed that reflected the weight coefficient of item of the train type and train schedule condition, the criteria for the workload scores and new method of calculating rest effect scores.