

Evaluation of Effects of Installation of Moving Block Signaling System Considering Drivers' Operation

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In recent years, to increase transportation capacity, various intelligent signaling systems, like the moving block have been proposed and put in operation. Hence, it is important to estimate the effects of these new signaling systems, as replacement of the existing signaling systems take many costs. In this research, we developed a train operation and passenger flow simulator corresponding to the moving block. The new simulator can estimate the train traffic condition and the passenger flow under the moving block within the practical computation time. It also takes into consideration the drivers' operational restrictions or requirements, like the minimum duration time for coasting. We applied it to an actual commuter line, and conducted a test evaluation for the effects of the moving block.