

Applications of Simulation Technologies in Transport Information Field

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This paper outlines the applications of simulation technologies to train operation and signalling systems. It describes the backgrounds and the development of simulators in each field. It also describes the difficulties of conventional simulators and the recent development aiming at resolving them. The new simulator can reflect the interaction between the passenger behavior, the train movement and the conditions of signalling systems, to obtain more precise simulation results. Finally, it shows a combination technology between the new simulator and the communication network simulator for the radio-based train control system, and its application in the future.