

Tutorial 2

Virtual Reality and Simulation

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Abstracts

This paper is on 3D virtual reality simulator for terminal in connection with terminal operation system in real terminal in order to reflex complicated terminal operation and environment. This simulator has been developed based on knowledge of terminal planning and operation analysis and advanced software technologies that TSB has accumulated over 10 years.

In this study, the simulator generates terminal layout and component of terminal in the same environments as the real terminal in Ohi, Japan and uses real operation system using real planning data in the past in order to describe 3D VR simulation that integrates container handling equipment and real time communication of job ordering.

In addition, it is suggested various statistics and analysis report can be used to derive decision supporting factors that optimize design of terminal and improve operation, which will eventually increase terminal productivity.