عنوان مقاله:

A Combined Extent Fuzzy AHP and Simulation Method for Selecting an Optimum Stacking Layout in Marine Container Terminals

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خلاصه مقاله:

Application of simulation and modeling techniques in decision-making and design aspects of container terminals has gained a considerable attention in the recent research studies. Container terminal designers usually deal with two different layouts mainly vertical and horizontal stacking layouts which directly affect the travel time of the transfer cycle and the utilization of different equipments in container terminals,. The main objective of this article is to determine the optimum operative terminal layout for port of Anzali in Iran, regarding to management , operational area and operational time as three main criteria. A Fuzzy (Analytical Hierarchy Process) AHP has been applied to the main and sub attributes based on opinions and a simulation experience. The quantitative criterion Operational time and its sub attributes have been analyzed by the Show flow Simulation software. The horizontal stacking layout has proved to be more convenient for operation.

کلمات کلیدی:

fuzzy AHP, Simulation Method, Stacking Layout, Container Terminal

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