

Perancangan model discrete event simulation untuk analisis kombinasi strategi port operation dan yard allocation pada container terminal = Analysis of combination port operation strategy and yard allocation strategy in container terminal with discrete event simulation approach

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Abstrak

Kegiatan bongkar muat di pelabuhan Tanjung Priok dari tahun ke tahun semakin bertambah mencapai 14 juta ton. Akan tetapi hal ini tidak diikuti dengan produktivitas dari pelabuhan yaitu dwelling time yang sangat lama dibandingkan dengan negara lain. Oleh karena itu, perlu dilakukan penelitian mengenai strategi untuk menambah produktivitas pelabuhan, yaitu dengan strategi Yard Truck Operation dan Yard Allocation.

Penelitian ini menggunakan discrete event simulation untuk mencoba kombinasi strategi single cycle dan dual cycle pada Yard Truck Operation dengan strategi separation on each block, diamond separation, horizontal separation on each block dan vertical separation on each block pada strategi Yard Allocation. Hasil penelitian memberikan bahwa strategi twin cycle (strategi alokasi truk) dan strategi separation on each block memberikan produktivitas yang tinggi di Tanjung Priok. Penelitian ini diharapkan dapat menambah produktivitas dari pelabuhan di Indonesia.

Loading and unloading activities at Tanjung Priok port from year to year is increased up to 14 million tons. However, this is not accompanied with the productivity of the port, and cause dwelling time become long . Therefore, it is necessary to do research on strategies to increase the productivity of the port, which is the strategy Yard Yard Truck Operation and Allocation.

This study uses a discrete event simulation to try a combination of single-cycle strategy and dual cycles in Yard Truck Operation with separation strategy on each block, diamond separation, horizontal separation on each block and each block of vertical separation on the Yard Allocation strategy.

From the results of the research give that strategy a twin cycle (truck allocation strategy) and strategy of separation on each block gives high productivity in Tanjung Priok. This study is expected to increase the productivity of ports in Indonesia.