

Masters Thesis Topic

Optimizing container terminal yard stacking and retrieval procedures



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Topic overview:

As ever more containers are shipped across the oceans, terminals are increasingly being pushed to their limits. Container terminals handle thousands of containers each day, storing them in a temporary buffer called the *yard*. Proper yard management helps to avoid delays of trucks, ships and trains that visit container terminals.

In particular, terminals wish to avoid *overstowing* containers. Containers are overstowed when a container with a late

departure time is on top of (and therefore blocks) a container with an early departure time.

This thesis will investigate optimization problems to avoid and/or minimize the overstorage of containers in the yard. Programming abilities are essential, as are algorithm/mathematical modeling abilities.

For more information, contact:

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Note: This masters thesis topic may be written in German or English!