Masters Thesis Topic

Optimizing container terminal yard stacking and retrieval procedures

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 overstowage of containers in the yard. Programming abilities are essential, as are algorithm/mathematical modeling abilities.

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