

|                         |   |
|-------------------------|---|
| 1. Record Nr.           | UNINA9910337782403321   |
| Autore                  | Covic Filip   |
| Titolo                  | Container Handling in Automated Yard Blocks : An Integrative Approach Based on Time Information // by Filip Covic   |
| Pubbl/distr/stampa      | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019   |
| ISBN                    | 3-030-05291-5   |
| Edizione                | [1st ed. 2019.]   |
| Descrizione fisica      | 1 online resource (325 pages)   |
| Collana                 | Contributions to Management Science, , 1431-1941  |
| Disciplina              | 658.4034<br>387.1068  |
| Soggetti                | Production management<br>Operations research<br>Management science<br>Computer simulation<br>Engineering economics<br>Engineering economy<br>Operations Management<br>Operations Research, Management Science<br>Simulation and Modeling<br>Engineering Economics, Organization, Logistics, Marketing   |
| Lingua di pubblicazione | Inglese   |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
| Nota di contenuto       | Introduction to Container Handling Research -- Container Terminal Environment -- Container Handling in the Yard Area -- Literature Review on Container Handling in the Yard Area -- Integrated Container Handling -- Algorithmic Analysis Based on the Problem Decomposability -- Re-marshalling Problem -- Terminal Appointment System -- Interaction Effects of Yard Block Properties, Re-marshalling and TAS -- Conclusion and Recommendations for Efficient Container Handling. . |
| Sommario/riassunto      | The yard block of a container terminal is the central point of synchronisation for asynchronous container flows between deep-sea vessels and transport to the hinterland. The structure of the block  |

stipulates that containers are stacked on top of each other with only the topmost container directly accessible by a yard crane. This book describes a holistic and integrative approach to container handling in yard blocks to optimise productivity by minimising re-handling operations. The results provide insights for academic scholars as well as for experts from practical terminal planning and operations. The approach presented is two-fold: first, a theoretical foundation of the interdependencies in decision-making is established using mathematical programming. Secondly, operations involving uncertain container arrival information are examined on the basis of a simulation with a rigorous experimental design and statistical evaluation. In this context, the book develops container-handling strategies and analyses the impact of a system for vehicle arrival management – the "Terminal Appointment System". The findings presented in this book are the result of a close cooperation with experts at the port of Hamburg and build on previous research. .

---