

1. Record Nr.	UNINA9910346768503321
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Titolo	Logical Time for Decentralized Control of Material Handling Systems
Pubbl/distr/stampa	KIT Scientific Publishing, 2016
ISBN	1000057838
Descrizione fisica	1 online resource (IX, 188 p. p.)
Collana	Wissenschaftliche Berichte des Instituts für Fördertechnik und Logistiksysteme des Karlsruher Instituts für Technologie
Soggetti	Technology: general issues
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The fourth industrial revolution aims to transform production systems. In this work, Logical Time which is a control principle for distributed systems is transferred to material handling systems with decentralized control. The GridSorter, a modular sorter with grid-like structure, is chosen as showcase system. The system is proven to be deadlock-free and is robust against varying transport times. The time-window-based route reservation process is described as Iterative Deepening A*.