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**Logical Time for Decentralized Control
of Material Handling Systems**

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The fourth industrial revolution aims to transform production systems. In this work, Logical Time which is a control basic principle for distributed systems can be transferred to material managing systems with decentralized control. The system is shown to be deadlock-free of charge and is definitely robust against varying transportation instances. The GridSorter, a modular sorter with grid-like structure, is chosen as showcase program. The time-window-based path reservation process is described as Iterative Deepening A*.



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