



Advanced Digital Technology in Logistics Engineering

Guest Editor:

Prof. Dr. Tone Lerher

Laboratory for Cognitive Systems
in Logistics, Faculty of Logistics,
University of Maribor, Slovenia

tone.lerher@um.si

Deadline for manuscript
submissions:

30 April 2021

Message from the Guest Editor

The development trend in logistics engineering is based on the development of new technologies, the introduction of information and communications technology (ICT), the concept of the Internet of Things (IoT) and the concept of Industry 4.0 with its high degree of automation and robotization. Together with an interdisciplinary scientific approach, they create the conditions for new possibilities and dimensions using advanced and environmentally friendly technologies.

This Special Issue welcomes articles from transportation and logistics engineering with advanced digital technologies, covering a wide range of aspects such as intelligent transportation systems, autonomous vehicle storage and retrieval systems, robotized warehouse systems, human-machine interaction in warehousing, and artificial intelligence in logistics.

Contributions on both methodology and applied research related to transport and logistics engineering are equally welcomed, including analytical methods and numerical models for decision-making problems, and their application.





Advanced Digital Technology in Logistics Engineering

Guest Editor:

Prof. Dr. Tone Lerher

Laboratory for Cognitive Systems
in Logistics, Faculty of Logistics,
University of Maribor, Slovenia

tone.lerher@um.si

Deadline for manuscript
submissions:

30 April 2021

Message from the Guest Editor

Keywords

- Intralogistics
- Warehouses (AS/RS, AVS/RS, SBS/RS, VLM)
- Material handling systems in intralogistics
- Automated (intelligent) material and part handling systems
- Single, double- and multi-deep storage systems
- Design, control, and optimization of warehouse systems
- Robotic mobile fulfillment systems
- Collaborative robots in intralogistics
- Exoskeletons in intralogistics
- Human-machine interaction in warehousing
- Warehouse sustainability
- Order picking systems
- Automated guided vehicles (AGV's)
- Pick support AGVs
- Artificial intelligence in logistics
- Computer vision in logistics
- Machine learning in logistics
- Sensors, actuators and robots in logistics
- Collaborative robots in logistics
- Mobile collaborative robots in logistics
- Multiagent systems in logistics
- Digital twin models in logistics
- Intelligent transportation systems
- Internet of Things (IoT)
- Industry 4.0

