Press release

Revolutionary Impulses: AI and Digital Twins for High-Performance Logistics

Logivations presents high-tech innovations at LogiMAT

Munich, 15.01.2024 – Logivations GmbH, an international consulting and technology company from Munich, is presenting enhancements and specific application examples of the W2MO Logistics Suite, which has been successfully used in practice for years, at the LogiMAT in Stuttgart from March 19th to 21th, 2024 (Hall 8, Stand F05). Logivations is thus once again setting standards for innovative and high-performance solutions, as the following examples show:

Object recognition with AI

On average, the identification of goods, packages, load carriers, etc. takes up around 30% of the total workload of logistics employees. With artificial intelligence, this workload can be almost completely automated. Depending on what is available, objects are identified using their barcodes, QR codes, texts/labelling, dimensions or visual appearance - fully automatically and reliably.

Logivations Supply Chain Engineering with new algorithms for "Multiple Centers of Gravity"

If a delivery area is to be covered not just by one location, but by several locations, which should also interact in the best possible way, then the new process from Logivations is ideal. The algorithm calculates an optimal solution at the touch of a button. Orders, weight, volume or number of units can be used as the basis for the calculation. With the highly interactive scenario manager, all scenarios can be easily compared and evaluated.

Warehouse capacity optimization for more space in the warehouse

An optimized arrangement of areas, driveways or shelves increase the storage capacity by up to 20% using modern AI algorithms. Based on a Digital Twin of the building and fixed facilities, the required lanes, shelves, areas and routes are placed in the warehouse in cooperation between humans and software so that the space is optimally used - and at the same time all restrictions and practical requirements are observed.

Algorithms and Intelligent Digital Twins

The portfolio includes suitable AI algorithms for all logistics optimization tasks: advanced slotting, space management, tour building, optimization of sequences, 3D packing, workforce deployment and much more. Highly interactive scenario management makes it easy to compare different alternatives and thus supports the ongoing optimization of the layout and all processes.

The Real-Time Digital Twins, Forklift Guidance System, Fleet Management, RTL&RS

Using AI, everything that happens in reality can be recognized and mirrored in the Digital Twin: Real-time digitization of logistics leads to the perfect digitized image of reality. The positions of all objects are known, stocks, area load, people, forklifts, etc. All bookings can be automated and a holistic control system for forklift trucks, AGVs and AMRs from different manufacturers and generations becomes possible.

(Please send a file copy or link in case of publication)

About Logivations:
Logivations is an international consulting and technology provider with headquarters in Munich. We develop innovative solutions for the optimization of all aspects of logistics based on the latest AI and optimization technologies under the motto “Design by efficiency”. Our software solution W2MO is a globally leading basis for Digital Twins of the Supply Chain, warehouse and production logistics. Already more than 30.000 professional users worldwide use the Digital Twin based on W2MO directly from the cloud or locally installed. The real-time digitization in W2MO and the use of the Digital Twin for Fleet and Area Management for modern Autonomous Robots is unique. https://www.logivations.com

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AI and Real-Time Digital Twin in W2MO: e.g. seamless tracking of all conveyed goods