

Table of Contents

| | |
|--|----|
| Mobile 3D LiDAR-based Object and Change Detection in Production and Operations Management <i>Taru Hakanen, Paul Kemppi, and Petri Tikka</i> | 1 |
| Simulated Ant-agent Aspects for Defining an Ant-bots Ontology <i>Colin Chibaya, Ntshuxeko Chibaya, and Rifilwe Modiba</i> | 8 |
| Toward Autonomous Cardiac Catheterization Through a Parametric Finite Element Simulation With Experimental Validation <i>Majid Roshanfar, Pedram Fekri, and Javad Dargahi</i> | 14 |
| Multi-Agent Planning Method Using Affordances from Environment <i>Sawako Tajima, Daiki Takamura, Daiki Shimokawa, Reo Kobayashi, Reo Abe, and Satoshi Kurihara</i> | 19 |
| A Multi-modal AI Approach For AGVs: A Case Study On Warehouse Automated Inventory <i>Ferran Gebelli Guinjoan, Matthias Hutsebaut-Buysse, Gorjan Radevski, Hugo Van Hamme, Erwin Rademakers, Abdellatif Bey Tamsamani, Kevin Mets, Tom De Schepper, Steven Latre, Erik Mannens, and Tinne Tuytelaars</i> | 25 |
| Moderate Loads Handling & Transportation by COBOTs and AMRs: Discussion of Different Architectures to Increase Payload & Reach and to Improve Operators Ergonomics <i>Abdellatif Bey Tamsamani, Luka Ramaekers, Wilm Decre, Erwin Aertbelien, Frederico Ulloa Rios, Raphael Furnemont, Karel Van der Elst, Jonas Vantilt, and Joris De Schutter</i> | 34 |
| Matlab/Simulink-Based Modeling for Industrial Electric Vehicle <i>Mouna Samaali, El-Hassane Aglzim, Xavier Dessertenne, and Patrick Dubreuille</i> | 43 |
| Utilizing Continuous Kernels for Processing Irregularly and Inconsistently Sampled Data With Position-Dependent Features <i>Birk Martin Magnussen, Claudius Stern, and Bernhard Sick</i> | 49 |