

Table of Contents

Intelligent Task Assignment in Industry 4.0 Production Processes Utilizing Fuzzy Sets <i>Gregor Grambow, Daniel Hieber, and Roy Oberhauser</i>	1
The Architecture of a Software Framework for Biologically-Inspired Optimization Algorithms <i>Florin Leon and Silvia Curteanu</i>	10
Friction Invariant Object Reconstruction Using a Vibrissa-inspired Tactile Sensor Concept <i>Lukas Merker, Joachim Steigenberger, and Carsten Behn</i>	16
Digital Twin for Drone Control through a Brain-Machine Interface <i>Diana Ramos, Gil Goncalves, and Ricardo Faria</i>	22
Controlling Individual and Collective Information for Generating Interpretable Models of Multi-Layered Neural Networks <i>Ryotaro Kamimura</i>	27
A Hybrid Model to Improve Occluded Facial Expressions Prediction in the Wild during Conversational Head Movements <i>Arvind Bansal and Mehdi Ghayoumi</i>	36
Vision-based Inspection System for OrnamentalStone Using a Weighted Hybrid Ensemble Classifier <i>Liliana Antao, Rui Pinto, Manuel Joao Ferreira, Tiago Pinto, and Gil Goncalves</i>	43