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Adaptive Simulation of Automated Guided Vehicle Systems Using Multi Agent Based Approach for Supplying Materials; Design of Experiments and Definition of Criteria for the Evaluation and Analysis of the Process of Machining in a Robotic System; Material Flow Design Supported by Simulation Methods; Materials Flow Analysis in the Production Process - Case Study; Direct Production from CAD Models Considering on Integration with CIM Flexible Production System
The Sensory Devices in the Assembly Workspace of an Intelligent Assembly Cell Prediction of Selected Production Goals by Classification Methods; Assignment of Labour to a Production Line Depending on Lot Size; Model-Oriented Safety Analysis of Dynamic Technological Systems; The Impact of Customized Variety on Configuration Complexity of Assembly Process; Interactive Game Supporting SMED Method; System of Designing Complex Technical Means Using Fuzzy Analysis; Numerical Analysis and Simulation of Drawpiece Forming Process by Finite Element Method
Incremental Modelling and Numerical Solution of the Contact Problem between Movable Elastic and Elastic/Visco-Plastic Bodies and Application in the Technological ProcessesDesign and Manufacturing Optimization of Single-Cylinder Engine Block Prototype Using CATIA Environment; Chapter 3: Novel Trends in Technology; Digital Image Processing in the Camera System of Assembly Systems ICIM; Application of Camera Image Processing to Control of Humanoid Robot Motion; Production of Composite Material by FDM Rapid Prototyping Technology
Finite Element Simulation of Cutting Forces in Orthogonal Machining of Titanium Alloy Ti-6Al-4V

Sommario/riassunto

The present publication arises as a result of the cooperation between the Institute of Production Systems and Applied Mechanics (IPSAM), belonging to the Faculty of Materials Sciences and Technology (MTF) of the Slovak University of Technology (STU) and TRANS TECH PUBLICATIONS. The book is aimed at publishing scientific achievements on the Novel Trends in Production and Systems as well as at enhancing the worldwide cooperation and recognition among young and senior academicians and/or practitioners, and specially those of the central European region. This edition has been enriched taking into