1. Record Nr. UNINA9910817473003321

Titolo	Novel trends in production devices and systems II / / edited by Daynier Rolando Delgado Sobrino, Karol Velisek and Peter Kostal
Pubbl/distr/stampa	Pfaffikon, Switzerland : , : Trans Tech Publications Ltd, , 2014 ©2014
ISBN	3-03826-697-3
Descrizione fisica	1 online resource (506 p.)
Collana	Applied Mechanics and Materials, , 1662-7482 ; ; Volume 693
Disciplina	658.5
Soggetti	Production management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Special topic volume with invited peer reviewed papers only."
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Novel Trends in Production Devices and Systems II; Preface, Organizer, Editors and Editorial Board; Table of Contents; Chapter 1: Novel Trends in Production Systems and Logistics; Laboratory of Flexible Manufacturing System for Drawingless Manufacturing; Specification of the Component Base for CNC Processing Centre EMCO Concept MILL 105; Algorithms and Evolution Diagrams Application for Determining the New Assembly Process Sequences; Layout Redesign and Material Flow Analysis at a Flexible Assembly Cell Supported by the Use of Simulation Priority Index of Production Equipment: A DEA-Based Multi-Criteria Approach to Setting Investment Priorities for Industrial Production ProcessesMethods of Storage Management in the System iCIM 3000; The Methodical Procedure for Designing of Clamping Jaws; Automated In-Process Inspection Method in the Flexible Production System iCIM 3000; The Methodology for the Selection of the Appropriate Sensory Equipment for the Grasping End Effectors in the Assembly Workspace; Offline Programming of an ABB Robot Using Imported CAD Models in the RobotStudio Software Environment Experiment Solution Velocity and Pressure Field in the Mixing Process Computer SimulationInterval Censored Data Analysis with Weibull and Exponential Distribution; Influence of Random Components of the Sampling Period on the Combined Dynamic System; The Methodology Proposal for the Model-Oriented Safety Analysis of Dynamical Systems;

The Dynamical Systems Safety Analysis by SQMD Method; Automation of Force Assessment Generated by Upper Limb for Ergonomic System EAWS; The Use of Petri Nets in Safety-Critical Control Systems; Modeling and Control of Compression System
Input Control in Production System by Simulation OptimizationThe Options of Using Data Mining Methods in Process Control; Synographical Approach to Dynamical Systems Analysis; Optimization of Technical System by Using FTA and Genetic Algorithm; Improving the Sustainability and Effectiveness of the Inventory Management in Manufacturing Company; Improving the Quality of Manufacturing Process through Six Sigma Application in the Automotive Industry; Genetic Algorithms in Test Design Automation; Reflections on the Opportunities of Multicriteria Optimization within Simulation Studies
The Impact Analysis of a Tire Model Properties on Running Stability of a Vehicle in the Environment of ADAMS/CarApplication of Multi-Criteria Optimization to Large-Scale Structures Design; Precision Analysis of Optical 3D Digitisation of Shaped Elements; Precision Analysis of Part Manufacturing Using SLM Method; Use of Reverse Engineering Methods in the Field of Fashion Design; Prototype CNC Machine for Laser Cutting of Sheet Metal; Application of Linear Programming Method on Selected Examples from the Enterprises
3D Printing of Fractal Deterministic Shapes into Polymer Matrix with Respect to Final Composite Mechanical Properties

Sommario/riassunto

Collection of selected, peer reviewed papers from the Special topic volume with invited peer reviewed papers only. The 80 papers are grouped as follows: Chapter 1: Novel Trends in Production Systems and Logistics (NTPS&L), Chapter 2: Novel Trends in Applied Mechanics and Materials (NTAM&M), Chapter 3: Information Technology and Software Development Applications in the Contexts of Production Systems, Logistics, Applied Mechanics and Materials (IT&SA), Chapter 4: Modern Management and Teaching Approaches in the Context of Production Systems, Logistics, Applied Mechanics and Materials (MM&TA).