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Robotic Engineering  
Machines, Tools, Processes

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Nota di contenuto	<p>Intro -- Preface -- Organization -- Contents -- Smart Manufacturing -- Sensor Selection for Smart Retrofitting of Existing Plants -- 1</p> <p>Introduction -- 2 Literature Review -- 3 Research Methodology -- 4</p> <p>Results and Discussion -- 5 Conclusions -- References -- Machine Vision Systems for Collaborative Assembly Applications -- 1</p> <p>Introduction -- 2 Literature Review -- 3 Research Methodology -- 3.1</p> <p>Introduction to Classification of Machine Vision Systems -- 3.2</p> <p>Parameters of Image Sensors -- 3.3 Parameters of Vision Processing Devices -- 4 Results and Discussion -- 5 Conclusions -- References -- Digital Twins for Industrial Robotics: A Comparative Study -- 1</p> <p>Introduction -- 2 Literature Review -- 3 Research Methodology -- 3.1</p> <p>Mechatronic Concept Designer -- 3.2 Process Simulate -- 3.3 TIA Portal -- 4 Results and Discussion -- 4.1 Model and Reality Reflection -- 4.2 Kinematics Analysis and Collisions -- 4.3 Sensor Simulation -- 4.4 Other Functionalities and Additional Notes -- 4.5 Contribution -- 5</p> <p>Conclusions -- References -- A CANVAS Based Assessment Model to Evaluate SMEs Readiness for Digital Business Models -- 1</p> <p>Introduction -- 2 Literature Review -- 3 Research Methodology -- 4</p> <p>Results and Discussion -- 4.1 Review of Existing Models -- 4.2</p> <p>Concept of the CANVAS Based Assessment Tool -- 4.3 Detailed Overview of CANVAS Based Assessment Criteria -- 4.4 Implementation and Visual Representation -- 4.5 Testing and Validation in an Industrial Case Study -- 4.6 Discussion -- 5 Conclusions -- References -- PLC Control of a 2-Axis Robotic Arm in a Virtual Simulation Environment -- 1</p> <p>Introduction -- 2 Literature Review -- 2.1 Roboguide -- 2.2 ABB Robot Studio -- 2.3 Siemens NX MCD -- 3 Research Methodology -- 4</p> <p>Results and Discussion -- 5 Conclusions -- References -- Evolution of Competence Management in Manufacturing Industries -- 1</p> <p>Introduction.</p> <p>2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Designing a Workplace in Virtual and Mixed Reality Using the Meta Quest VR Headset -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 3.1 Virtual Reality -- 3.2 Classification of VR Technologies -- 3.3 Mixed and Augmented Reality -- 3.4 Meta Quest Devices -- 4 Results and Discussion -- 4.1 Creating a Room Setup Workspace in the Meta Quest GUI -- 4.2 ShapesXR -- 5 Conclusions -- References -- Digital and Information Technologies in Metrology 4.0 -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4</p> <p>Results and Discussion -- 5 Conclusions -- References -- Information Management Systems -- Quality Management at the Manufacturing Enterprise: Repair Processes Case Study -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Impact of Standardized Reusable Packaging on a Supply Chain Design and Environmental Efficiency -- 1 Introduction -- 2 Literature Review</p>

-- 3 Research Methodology -- 4 Results and Discussion -- 4.1 Implementation of Standardized Universal Logistic Unit Across the Supply Chain -- 4.2 Carbon Footprint Comparison of Both Supply Chain Models -- 5 Conclusions -- References -- Agile Framework as a Key to Information Management Systems Delivery -- 1

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Information Technologies of the Analysis for Models to Ensure Quality Characteristics of the Working Surfaces During Mechanical Processing -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- CAD, Laser Powder Bed Fusion Fabrication and Post-processing of Customized Metal Dental Products -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 4.1 Powder Characterization -- 4.2 Surface Defects and Residual Porosity -- 4.3 Surface Texture -- 5 Conclusions -- References -- Just in Time Gear Grinding Wheel Dressing -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Generalized Method for Rational Selection of Parameters for Interference Fits Using Computer-Aided Joint Design Systems -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Surface Relief Formation in Peripheral End Milling -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 3.1 The Aim and Objectives of the Study -- 3.2 Digital Model of Surface Relief Formation During Peripheral Milling -- 3.3 Simulation -- 3.4 Formation of a 3D Relief Model of the Machined Surface -- 4 Results and Discussion -- 5 Conclusions -- References -- Improvement of the Automatic Workpiece Clamping Mechanism of Lathes to Expand Technological Capabilities -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- An Impact of Solid Lubrication on the Diamond Grinding Characteristics of Difficult-to-Machine Materials -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References.

The Stress-Deformed State of the Cylinder Liner's Working Surface.

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#### Sommario/riassunto

This book reports on advances in manufacturing, with a special emphasis on smart manufacturing and information management systems. It covers sensors, machine vision systems, collaborative technologies, industrial robotics, digital twins, and virtual and mixed reality. Further topics include quality management, supply chain, agile manufacturing, lean management, and sustainable transportation. Chapters report on theoretical research and experimental studies concerning engineering design, simulation, and various machining processes for classical and additive manufacturing. They also discuss key aspects related to engineering education and competence management in the industry 4.0 era. Based on the 6th International Conference on Design, Simulation, Manufacturing: The Innovation Exchange (DSMIE-2022), held on June 6-9, 2023, in High Tatras, Slovak Republic, this first volume of a 2-volume set provides academics and professionals with extensive information on trends and technologies, and challenges and practice-oriented experience in all the above-mentioned areas.

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