

1. Record Nr.	UNISA990002971980203316
Titolo	I soggetti deboli nella famiglia e nelle istituzioni socio-sanitarie : biopotere e diritti della persona / a cura di Silvia Piccinini
Pubbl/distr/stampa	Napoli : Edizioni Scientifiche Italiane, 2007
ISBN	978-88-495-1433-9
Descrizione fisica	248 p. ; 24 cm
Collana	Università degli Studi del Molise, Dipartimento S.G.S.A.
Disciplina	344.03282
Soggetti	Famiglia - Tutela - Legislazione
Collocazione	XXV.2.G 21 (IG XVI 629)
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910726275503321
Autore	Ivanov Vitalii
Titolo	Advances in Design, Simulation and Manufacturing VI : Proceedings of the 6th International Conference on Design, Simulation, Manufacturing: The Innovation Exchange, DSMIE-2023, June 6–9, 2023, High Tatras, Slovak Republic - Volume 1: Manufacturing Engineering / / edited by Vitalii Ivanov, Justyna Trojanowska, Ivan Pavlenko, Erwin Rauch, Ján Pite
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2023
ISBN	9783031327674 3031327675
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (423 pages)
Collana	Lecture Notes in Mechanical Engineering, , 2195-4364
Altri autori (Persone)	TrojanowskaJustyna Pavlenkov (Ivan) RauchErwin PiteJán
Disciplina	670
Soggetti	Industrial engineering Automation Robotics Manufactures Industrial Automation

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	<p>Intro -- Preface -- Organization -- Contents -- Smart Manufacturing -- Sensor Selection for Smart Retrofitting of Existing Plants -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Machine Vision Systems for Collaborative Assembly Applications -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 3.1 Introduction to Classification of Machine Vision Systems -- 3.2 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 Introduction -- 2 Literature Review -- 3 Research Methodology -- 3.1 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 Conclusions -- References -- A CANVAS Based Assessment Model to Evaluate SMEs Readiness for Digital Business Models -- 1 Introduction -- 2 Literature Review -- 3 Research Methodology -- 4 Results and Discussion -- 4.1 Review of Existing Models -- 4.2 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 Introduction -- 2 Literature Review -- 2.1 Roboguide -- 2.2 ABB Robot Studio -- 2.3 Siemens NX MCD -- 3 Research Methodology -- 4 Results and Discussion -- 5 Conclusions -- References -- Evolution of Competence Management in Manufacturing Industries -- 1 Introduction. 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 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>

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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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