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Nota di contenuto	Optimization of the Mechanical Engineering, Manufacturing Systems, Robotics and Aerospace; Preface and Technical Committee; Table of Contents; Chapter 1: Invited Papers; Spherical Ultrasonic Motor for Pipe Inspection Robot; Multi-Agent Robotic System - Robotic Soccer in Category Mirosoft; Dynamic Thermal Analysis of Laminated Cylinder with a Piezoelectric Layer Based on Three-Dimensional Elasticity Solution; Optimizing the Global Dynamic Compliance by Using the Smart Damper and LabVIEW Instrumentation; Advanced Rehabilitation Technology The Command and Control Software Implementation of a CCD Video 2 Axis Gyrostabilized Payload Used by a Fixed Wing UAV Configuration PlatformMachining with Image Recognition Using Industrial Robot; Validation of the Mathematical and Numerical Models for Artillery Barrels Autofrettage Based on Hydrostatic Procedure; A 6-DoF Satellite Virtual Simulator Design and Development; Experimental Study of Vortex Shedding Control Using Plasma Actuator; Three-Dimensional

Elasticity Study of Vibration of a Composite Shell Panel with Embedded Piezoelectric Sensors
Dynamic Force-Position Control of the Walking Robots Motion on Slope
Chapter 2: Mechanical Engineering; Theoretical and Experimental Contact Stiffness Characterisation of Nominally Flat Surfaces; Optimal Design of the Mechanical Device for a Photovoltaic Tracking Mechanism; Remote Control Testing Consumer Products for Durability and Performance; Flammability Behavior of Composite Mixed with Retardant Agents; Infrared Detection for Surveillance System; Mechatronic Designed Hydraulic Positioning System
Effect of Dry Binders on Mechanical Properties of Ketoprofen-Cyclodextrin Extended Drug Release Systems
About the Study of Bending Beam on Elastic Environment by Transfer-Matrix Method; Evaluation Flame Retardancy of Epoxy Composite by Using Design of Experiments; Chapter 3: Manufacturing Systems; Measuring the Flanks of a Bevel Gear Made by Heidenreich-Harbeck Cutting Machine; Ultrasound Examination - Mean of Analysis of the Layers Properties Deposited Through Different Thermal Spraying Methods; VBA for Tracking Manufacturing Process in SME
Analytical Calculation of the Position Loop Gain for Linear Motor CNC Machine Tool
Possibilities of Use of Virtual Reality in the Field of Manufacturing Systems; Torsor Evaluation of the Tooth during the Milling Process; The Preliminary Study of Machinability during Milling of Titanium Alloy (Ti-6Al-4V); Thermal Shock in Sprayed Layers Observed Using Infrared Thermography; Device Used for Magnetic Treatment of Fuel Fluids before Burner; Chapter 4: Robotics; Mathematical Simulation of Leg's a 5-Dof a Biped Robot; A Pneumatically Driven Stewart Platform Used as Fault Detection Device
Modelling and Kinematic Analysis of a Built Up Linear Delta Robot

Sommario/riassunto

The main objective of this volume is to present the current understanding of leading researchers, engineers and scientists - from Romania and from around the world - concerning these fields in order to provide a platform from where researchers, engineers, academicians as well as industrial professionals can present their latest experiences and developmental activities in the mechanical engineering, manufacturing systems, robotics, medical and military fields. Review from Book News Inc.: Researchers, scientists, and engineers share their findings and thoughts regarding optimization in the four
