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Titolo	Biomechanics, Neurorehabilitation, Mechanical Engineering, Manufacturing Systems, Robotics and Aerospace : selected, peer reviewed papers from the 3th (sic) International Conference on Biomechanics, Neurorehabilitation, Mechanical Engineering, Manufacturing Systems, Robotics and Aerospace, October 26-28, 2012, Bucharest, Romania / / edited by Adrian Olaru
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Collana	Applied mechanics and materials ; ; v. 245
Altri autori (Persone)	OlaruAdrian
Disciplina	620.1
Soggetti	Aerospace engineering Space robotics Intelligent control systems
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Biomechanics, Neurorehabilitation, Mechanical Engineering, Manufacturing Systems, Robotics and Aerospace; Preface; Table of Contents; Invited Papers; Robotics for Neurorehabilitation: Current State and Future Challenges; Healthier by Safe Persuasion; Hybrid Force-Position Dynamic Control of the Robots Using Fuzzy Applications; Optimization of the Robots Fourier Spectrum by Using the Assisted Research, Neural Network, Smart Damper and LabVIEW Instrumentation; Spartacus IV Auto - Pilot System Presentation Customised for EADFP Platform; About Buckling Bio-Composite Sandwich Bars An Analitical Approach Regarding the Choose of Integration Time and Gain Values during a Thermal Camera Calibration Chapter 1: Biomechatronics and Neurorehabilitation; Computational Modeling of Interaction of Dental Implant with Mandible; Contribution to Analyze and Modeling of the Hand; Evaluation of Surface Roughness Variations of Solid Dosage Forms in Simulated Physiological Conditions; Study of Straight and Oblique Mandible Fracture Behavior in the Chin Section;

Stress-Strain Analysis of Hip Joint after Application of Total Hip Arthroplasty with Consideration of Wear
Rapid Prototyping of a Hand Model for Rehabilitation Selection of Proper Cells Using Connected Components Tracking Algorithms; Chapter 2: Mechanical Engineering; A Novel Variable Impedance Compact Compliant Series Elastic Actuator: Analysis of Design, Dynamics, Materials and Manufacturing; PWM Controlled Proportional Equipment; Results Concerning the Combustion of Liquid Biofuels; How to Enhance Efficiency and Accuracy of the Over-Deterministic Method Used for Determination of the Coefficients of the Higher-Order Terms in Williams Expansion
Effect of Variable Fiber Spacing on Post-Buckling of Boron/Epoxy Fiber Reinforced Laminated Composite Plate Study Concerning the Effect of the Bushings' Deformability on the Static Behavior of the Rear Axle Guiding Linkages; Micro-Crack Propagation in Particulate Composite with Different Types of Matrix; Large Amplitude Vibration Analysis of Composite Beams under Thermal Stresses: Closed-Form Solutions; Dynamic Modelling and Simulation of an Auto Vehicle Steering Mechanism Considering its Elements as Flexible; Expert System for Designing Shaft-Bearing-Gear Transmission Assemblies
Chapter 3: Manufacturing Systems Assessment of Engine Deterioration Based on Oil Fe Data; Model Driven Key Performance Indicators Concepts for Manufacturing Execution Systems; Operations Management in Water and Wastewater Treatment Plants; Drive of Extreme Transport Technique; Experimental Investigation of Cutting Forces at Milling Titanium Alloys Comparing to Others Hard Alloys; Material Handling Mechanisms Used in Flexible Manufacturing Systems; Mechanical Enhancement of Carbon Fiber/Epoxy Composites Based on Carbon Nano Fibers by Using Spraying Methodology
Generation of the Storage Costs Function Using Neural Networks

Sommario/riassunto

The main objective of the special collection of 53 peer-reviewed papers was to gather some of the current knowledge from leading researchers, engineers and scientists in the field of: Biomechanics, Biomechatronics, Neurorehabilitation, Mechanical Engineering, Manufacturing Systems, Robotics, Aerospace.