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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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ISBN	3-03813-935-1
Descrizione fisica	1 online resource (358 p.)
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
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
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

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#### 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.

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