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Nota di contenuto	Advanced Manufacturing and Automation; Preface, Organizer, Committees and Editors; Table of Contents; Chapter 1: Mechanisms and Machine of Manufacturing Systems; Research of Design and Simulation for the Small Modular Machine Tool; Research on the Impact of Needle Valve Orifice Chamfering on the Performance Based on Fluent; Numerical Analysis of an External Flow-Field around a Formula SAE Car Body Based on FLUENT; Research on Mechanical Characteristics of Plastic Materials in Automobile Manufacturing Research on Three-Dimensional Reconstruction Technology Based on the Data of Hybrid Measurement Study on Meshing Force and Rigid-Flexible Coupling Dynamic Simulation of Cycloid Drive; The Influence of Overlap Coefficient on Contact Behavior of Globoidal Indexing Cam Mechanism; Investigation on Spray Quality of Diesel Nozzles Based on Precise Grinding Process; The Method of Fundamental Solutions for the Moving Boundary Problem of the One-Dimension Heat Conduction Equation; Structural Optimization for Stator Radial Ventilation Cooling System of Turbo Generator Analysis for Different Positions of Nozzle on Air-Assisted Boom Sprayer The Design and Numerical Simulation of Continuous Diffusion Furnace's Gas-Inlet Tube; Stiffness Analysis of the Paddle in Continuous

Diffusion Furnace for Solar Cells; The Thermal Expansion Coefficient of Dispersion Nuclear Fuel Elements; Simulation-Based Engineering Approaches for Renewable Energy Conversion Systems; Research on Tolerance Simulation and Improvement of Gas Turbine Generator; Chapter 2: Advanced Manufacturing Technologies; A Method for Predicting the Behavior of Plastics at Different Temperatures
Precision Turning with Slender Boring Bars Research on Aero-Engine Blade Machining Practice; Research of Grinding Methods for Large Lead Ball Nut; A Cost Model for Recycling Process of End of Life Vehicle; Construction and Application of Virtual Roaming System Based on Virtools; The Method of Tolerance Analysis Base on the Monte Carlo; Green Manufacturing Based on Product Life Cycle; Chapter 3: Measurements, Monitoring and Analysis of Manufacturing Systems; A Review of Data Mining Technologies for Condition Based Monitoring for Machine Tools
Research of Visual Inspection and Sorting System of Cigarette Carton Brand Selection of Mother Wavelet for Effective Wavelet Transform of Bearing Vibration Signals; The Monitoring System for Stability of CNC Machining Based on cDAQ and LabVIEW; Helicopter Bearing Degradation Data Analysis Using Spectral Kurtosis and Time-Frequency Representation; Fault Diagnosis of Bearing Based on Conjugate Gradient BP Algorithm; Design of PC Remote Monitoring System for Standby Generators; Smartphone Remote Control System for Standby Generator Set Based on Android
Design and Realization of Intelligent Electrical Resistivity Measurement System

Sommario/riassunto

Collection of selected, peer reviewed papers from the 4 th International Workshop of Advanced Manufacturing and Automation (IWAMA 2014), October 27-28, 2014, Shanghai, China. The 97 papers are grouped as follows: Chapter 1: Mechanisms and Machine of Manufacturing Systems, Chapter 2: Advanced Manufacturing Technologies, Chapter 3: Measurements, Monitoring and Analysis of Manufacturing Systems, Chapter 4: Mechatronics, Robotics and Control, Chapter 5: Intelligent Manufacturing Systems, Chapter 6: Production, Logistics and Supply Chain Management.