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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Advances in Manufacturing Systems; Preface, Scientific Committee and Sponsors; Table of Contents; I. Industrial Metrology; A Survey of Surface Texture Characterization with Two and Three-Dimensional Contact Methods; Accuracy Analysis of Fringe Projection Systems Based on Blue Light Technology; A Comparative of 3D Surface Extraction Methods for Potential Metrology Applications; A Strategy for Geometric Error Characterization in Multi-Axis Machine Tool by Use of a Laser Tracker; Accuracy and Reliability Control of Machining Operations on Machining Centres Comparison of Double Flank Roll Testers for Worm and Worm Gear Double Flank Roll Testing as Verification Technique for Micro Gears; Development of a Behaviour Curve for Quality Evaluation with Optoelectronic Profilometers; Homing Sensor System Design for a 2D Long Range Nanopositioning Moving Platform; Laser Tracker Error Modeling and Kinematic Calibration Strategy; The Use of Virtual Circles Gauge for a Quick Verification of Portable Measuring Arms; Thermography IR Applied to Analyse the Influence of the Deformation

Speed in the Forming Process

Tribological Wear Analysis of Laser Surface Treated Ti6Al4V Based on Volume Lost Evaluation  
Uncertainty Assessment in Terrestrial Laser Scanner Measurements; Uncertainty Estimation for the Optical System of Optical Measuring Machines; II. Industrial Quality; Using CO2 Emissions as a Maintenance Ratio in Manufacturing Processes; Maintenance Centered on the Reliability on Wind Turbines of Low Accessibility; Variability Analysis by Statistical Control Process and Functional Data Analysis - Case of Study Applied to Power System Harmonics Assessment

Costs Modelling Applied to Activities of Integrated Management

III. Modeling and Simulation in Manufacturing Engineering; Processes Risk Management and Continuity Assurance; Labor Productivity in Projects of Construction and Industrial Maintenance; Towards an Integrated SOA-Based Architecture for Interoperable and Responsive Manufacturing Systems Using the ISA-95 Object Model; A First Approach to the Development of a Control Subsystem on a Hybrid (Real/Virtual) Flexible Manufacturing System; Influence of the Friction and the Geometry in Indentation Processes

IV. Teaching Manufacturing and Industrial Heritage

Teaching Mechanism Calibration to Engineering Students; Modeling of a Horizontal Coordinate Measuring Machine; Knowledge Retention of Manufacturing Concepts in Short and Medium Term in Engineering Degrees; General Procedure to Evaluate the Progress and Results of the Student: Teaching and Learning the Skills of Manufacturing Engineering; Keywords Index; Authors Index

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Sommario/riassunto

Collection of selected, peer reviewed papers from the 5th International Conference of Manufacturing Engineering Society (MESIC 2013), June 26-28, 2013, Zaragoza, Spain. The 28 papers are grouped as follows: I. Industrial Metrology, II. Industrial Quality, III. Modeling and Simulation in Manufacturing Engineering, IV. Teaching Manufacturing and Industrial Heritage The 28 papers cover manufacturing engineering from the perspectives of metrology, quality, modeling and simulation, and teaching and heritage. Specific topics include a comparison of double flank roll testers for worm and worm gear, usi

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