



	September 21 st	September 22 nd	September 23 rd
8.00	Registration	Registration <i>Plenary Lecture</i>	Registration
9.00	Opening Session <i>Opening Lecture</i>	<i>Session 5</i> Metrology II	<i>Plenary Lecture</i> <i>Session 10</i> Production Planning
10.00	Coffee-Break	Coffee-Break <i>Posters Session II</i>	Coffee-Break <i>Posters Session IV</i>
11.00	<i>Session 1</i> Machining Processes I	<i>Plenary Lecture</i> <i>Session 6</i> 6.1 Prototyping 6.2 Manufacturing Systems	<i>Session 11</i> Non-Traditional Machining
12.00		<i>Plenary Lecture</i>	MES General Meeting
13.00	<i>Session 2</i> 2.1 Metrology I 2.2 Advanced Manufacturing Processes & CAD/CAM/CAE	<i>Session 7</i> Machining Processes II	Closing Session
14.00	Lunch	Lunch	Closing Lunch
15.00			
16.00	<i>Session 3</i> Modeling & Simulation	<i>Plenary Lecture</i> <i>Session 8</i> Forming	
17.00	Coffe-Break <i>Posters Session I</i>	Coffe-Break <i>Posters Session III</i>	
18.00	<i>Session 4</i> 4.1 Welding 4.2 Casting & Moulding	<i>Workshop</i> Wikipedia in Manufacturing Engineering	<i>Session 9</i> 9.1 Machining Processes III 9.2 Quality and Quality
19.00			
20.00	Guided visit to Cadiz		
21.00	Reception in the City Hall	Gala Dinner	
22.00			


September 21 st	
8.00–9.00	Registration
9.00–9.30	Opening Session
9.30–10.30	Opening Lecture: Otto Jusko <i>"Dimensional Metrology for the Realization of SI Units"</i>
10.30–11.00	Coffee–Break
Session 1 11.00–12.30	<p style="text-align: center;"><u>Machining Processes I</u></p> <p><u>Chairmen:</u> F. Girot, M. Marcos <u>Session Secretary:</u> J. Salguero</p> <ul style="list-style-type: none"> • Process Stability Strategies in Milling of Thin-walled Inconel 718 <i>B. Wanner, M. Eynian, T. Beno, L. Pejryd</i> • Effects of Rotational Speed and Feed Rate on Temperature Rise, Feed Force and Cutting Torque when Drilling Bovine Cortical Bone <i>J. Soriano, L.M. Iriarte, J.A. Eguren, P. Aristimuño, A. Garay, P.J. Arrazola</i> • Sensitivity Analysis of Tool–Chip Contact Parameters when Predicting Residual Stresses in Turning of Inconel 718 <i>I. Torrano, O. Barbero, A. Kortabarria, P.J. Arrazola</i> • The Influence of Cutting Speed in Austenitic Stainless Steel Machining: Study of Specific Force Coefficients <i>A.I. Fernández–Abia, J. Barreiro, L.N. López de Lacalle, G. Urbicain, I. Paradela</i> • Influence of Speed on Wear and Cutting Forces in End–milling Nickel Alloy <i>M. Estrems, H.T. Sánchez, T. Kurfess, C. Bunget</i> • Obtención de una Trayectoria Espiral para Mecanizar con Técnicas Fuzzy y Herramienta Esférica Superficies STL Partiendo de su Contorno <i>J.L. Huertas–Talón, J.M. Franco–Gimeno, J.M Falcó–Boudet, L. Berges–Muro</i> • The Feasibility of Strain Field Measurement with CORELLI in Orthogonal Machining of a Titanium Alloy <i>M. Calamaz, D. Coupard, F. Girot</i>
Session 2 12.45–14.15	<p style="text-align: center;"><u>2.1 Metrology I</u></p> <p><u>Chairmen:</u> O. Jusko, J.J. Aguilar <u>Session Secretary:</u> J.P. Contreras</p> <ul style="list-style-type: none"> • Study of the Technical Feasibility of Photogrammetry and Coordinated Measuring Arms for the Inspection of Welded Structures <i>F. Sánchez–Lasheras, R.I. Fernández, E. Cuesta, B.J. Álvarez, S. Martínez</i> • Study of the Influence of Reference System in Surface Finishing Parameters Evaluation <i>A. Sanz, R. Fernández, S. Pindado, P. Núñez</i> • Laser Tracker based Volumetric Verification of Machine Tools <i>S. Aguado, D. Samper, J. Santolaria, J.J. Aguilar</i> • Measurement of Micro–molded Parts by Computed Tomography <i>S. Ontiveros, J.A. Yagüe, R. Jiménez, J.J. Aguilar</i> • Uncertainty Evaluation in Robot Calibration by Monte Carlo Method <i>M. Ginés, J. Santolaria, L. Vila, A. Brau, J.J. Aguilar</i> • Evaluation of Influence Parameters in the Reliability of the Measuring with Coordinated Measuring Arms <i>E. Cuesta, B.J. Álvarez, S. Martínez, J. Barreiro, D. González–Madruga</i> • Integración de un Sensor Conoscópico en una MMC <i>P. Fernández, D. Blanco, G. Valiño, H. Hoang, L. Suárez, S. Mateos</i>

	<p style="text-align: center;">2.2 Advanced Manufacturing Processes & CAD/CAM/CAE</p> <p>Chairmen: E. Ares, J. Barreiro Session Secretary: R. Bienvenido</p> <ul style="list-style-type: none"> • Comparison of Aged Polyamide Powders for Selective Laser Sintering <i>A. Martínez, A. Ibáñez, A. Sánchez, M.A. León</i> • Spiral Pocketing by Conformal Mappings <i>P. Romero–Carrillo, R. Dorado, F. Díaz–Garrido, R. López</i> • Designing Using Manufacturing Features <i>T. Szecsi, A.S.M. Hoque</i> • Development to Integrate Conceptual Design Tools and a CAD System <i>V.H. Torres, J. Ríos, A. Vizán, J.M. Pérez</i> • Social Return of R&D Investments in Manufacturing Sector: Some Insights from an Exploratory Case Study <i>J. Cunha, P. Ferreira, M. Araújo, E. Ares</i> • Expanding Lean Thinking to the Product and Process Design and Development within the Framework of Sustainability <i>M. Sorli, A. Sopelana, M.Salgado, G. Pelaez, E. Ares</i>
14.30–16.00	Lunch
<p style="text-align: center;">Session 3</p> <p>16.00–17.30</p>	<p style="text-align: center;">Modeling & Simulation</p> <p>Chairmen: F.J. García–Lomas, J.A. García–Manrique Session Secretary: M. Batista</p> <ul style="list-style-type: none"> • Rechazo de Oscilaciones Caóticas por Control Adaptativo <i>M. Prián, M.J. López, F.M. Verdulla</i> • Numerical Analysis of the Deformation Mechanisms in Incremental Forming of AA2024–T3 Sheets <i>G. Centeno, C. Vallengano, J. Vázquez, D. Morales, A.J. Martínez–Donaire, F.J. García–Lomas</i> • FEM Analysis of Spur Gears Forging from Nano–structured Materials <i>D. Salcedo, C.J. Luis, R. Luri, J. León</i> • Analysis of Material Removal in FEM Thermal Models for Grinding <i>N. Ortega, I. Pombo, U. Alonso, J.A. Sánchez, B. Izquierdo, S. Plaza</i> • Modeling Strategies for Efficient FE Simulation of Localised–Incremental Forging Processes <i>A.M. Camacho, M.M. Marín, E.M. Rubio, M.A. Sebastián</i> • Effect of Centrifugal Forces on Dimensional Error of Bored Shapes <i>M. Arsuaga, L.N. López de Lacalle, R. Lobato, G. Urbikain, F. Campa</i> • FEM based Deformability Analysis of Metal Forming: Influence of Material Models and Analysis Approaches <i>H.G. Lemu, T. Trzepieciński</i>
	 <p style="text-align: center;">Meeting of the MES Staff</p>
17.30–18.30	<p>Coffee–Break</p> <p style="text-align: right;">Posters Session I</p>
18.30–19.45	 <p style="text-align: center;">Workshop: Wikipedia in Manufacturing Engineering</p>

Session 4 18.30–19.45	<h3>4.1 Welding</h3> <p>Chairmen: F.J. Botana, T. Pasang Session Secretary: M. Álvarez</p> <ul style="list-style-type: none"> • Metallurgy and Deformation of Electron Beam Welded Similar Titanium Alloys <i>T. Pasang, J.C. Sabol, W.Z. Misiolek, R. Mitchell, A.B. Short, G. Littlefair</i> • Considerations for Application of Structural Adhesives for Joining Aluminum with Compound Materials in the Manufacturing of Competition Motorcycles <i>J.M. Arenas, C. Alía, J.J. Narbón, R. Ocaña, M.M. Recio</i> • Laser Welding of Aeronautical and Automobile Aluminum Alloys <i>Z. Boukha, J.M. Sánchez-Amaya, M.R. Amaya-Vázquez, L. González-Rovira, F.J.Botana</i> • Improvements of Laser Weldability of Aluminium Alloys by Laser Texturization <i>J.M. Sánchez-Amaya, Z. Boukha, L. González-Rovira, M.R. Amaya-Vázquez, F.J.Botana</i> • Welding Torch Trajectory Generation for Hull Joining Using Autonomous Welding Mobile Robot <i>J.Y. Hascoet, K. Hamilton, G. Carabin, M. Rauch, B. Arregui, M. Alonso, E. Ares</i>
	<h3>4.2 Casting & Moulding</h3> <p>Chairmen: M. Estrems, J. Seguí Session Secretary: M. Batista</p> <ul style="list-style-type: none"> • Synthesis of APA6 Thermoplastic Matrices for the Manufacture of Green Composites <i>A. Alfonso, J. Andrés, J.A. García</i> • Set-Up for Unsaturated Permeability Measurement of LCM Reinforcements <i>R. Hoto, J. Andrés, I. Ordeig, J.A García</i> • A Comparison between Traditional Criteria and FEM Analysis Results for Gravity Casting Feeding and Riser Systems <i>M.C. Manjabacas, V. Miguel-Eguía</i> • Assessment of Ultrasonic and Radiographic Inspection Techniques for Porosity Measurement in Die-Casting Parts <i>J.J. Hernández-Ortega, R. Zamora, J. López, F. Faura</i> • Ecodiseño Aplicado al Diseño y Fabricación de Moldes de Inyección de Plástico, Molde Reutilizable (MR) <i>P. Hernández, M. Díaz, E. Covelo, E. Ares</i> • Evaluación del Desgaste durante el Proceso de Inyección con el Uso de Perfilometría Óptica <i>P. Hernández, M. Díaz, E. Covelo, E. Ares</i>
20.00–21.00	Guided visit to Cadiz
21.00–22.30	Reception in the City Hall

September 22 nd	
8.00–8.30	Registration
8.30–9.00	Plenary Lecture: <i>Albert Weckenmann</i> <i>“Metrology – Base for Scientific Cognition and Technical Production”</i>
Session 5 9.00–10.30	<p style="text-align: center;"><u>Metrology II</u></p> <p><u>Chairmen:</u> A. Weckenmann, M.A. Sebastián <u>Session Secretary:</u> J.P. Contreras</p> <ul style="list-style-type: none"> • Metrological Infrastructure Development in the Province of La Rioja (Argentina). An University Cooperation Experience for Local Development and Technology Transfert <i>P. Sismondí, A.P. Bigot, J. Viel, G. Rodríguez</i> • Visualization of Shapes for Deep-Drawn Cup Bottoms by Flatness Measures Using a Roundness Measurement Machine <i>V. Miguel, A. Martínez, M.C. Manjabacas, J. Coello, E. Soria, F. García-Sevilla</i> • Proposal for a Optical Method for the Metrological Characterization of Spur Gears in the Sub-Millimeter Range <i>J. Caja, E. Gómez, P. Maresca, M. Berzal, C. Barajas</i> • An Alternative Method to Achieve Metrological Confirmation in Measurement Processes <i>M. Villeta, E.M. Rubio, A. Sanz, L. Sevilla</i> • Metrological Control of Global Navigation Satellite System (GNSS) Equipment <i>T. Fernández, J. de Vicente</i> • Process Characterization by Scanning Laser Metrology Inspection <i>J.M. Herrera, D. R. Salgado, I. Cambero, A. Marcelo</i> • Metodología de Análisis y Evaluación de Documentos Metrológicos <i>M.J. Martín, M.A. Sebastián</i>
10.30–11.00	Coffee-Break Posters Session II
11.00–11.30	Plenary Lecture: <i>Paulo Bártolo</i> <i>“Biomedical use of Additive Manufacturing”</i>
Session 6 11.30–12.45	<p style="text-align: center;"><u>6.1 Prototyping</u></p> <p><u>Chairmen:</u> J. Ciurana, M. Sánchez-Carrilero <u>Session Secretary:</u> A. Gómez</p> <p style="text-align: right;"><i>Sponsored by</i>  <small>Asociación Española de Rapid Manufacturing</small></p> <ul style="list-style-type: none"> • A New Application for Food Customization with Additive Manufacturing Technologies <i>L. Serenó, G. Vallicrosa, J. Delgado, J. Ciurana</i> • Biomechanical Behavior of Porous Ti6Al4V Fabricated on EBM for Medical Device Manufacturing <i>V. Petrović, J.R. Blasco, I. Morales, V. Primo, L. Portolés, C. Atienza, J.F. Moreno, V. Belloch</i> • Rapid Manufacturing. Formación Académica y Transferencia de Conocimiento <i>P. Hernández, M. Monzón, M.D. Marrero, A. Benítez, Z. Ortega, F. Ortega</i> • Clad Geometry Prediction in Laser Cladding Process <i>I. Taberner, A. Lamikiz, E. Ukar, S. Martínez</i> • Study of Capabilities and Limitations of 3D Printing Technology <i>H.G. Lemu</i> • Modelization and Structural Analyses of FDM Parts <i>J. Martínez, J.L. Diéguez, J.E. Ares, A. Pereira, J.A. Pérez</i>

	<p style="text-align: center;"><u>6.2 Manufacturing Systems</u></p> <p><u>Chairmen:</u> F. Romero, J.P. Arrazola <u>Session Secretary:</u> A. Pastor</p> <ul style="list-style-type: none"> • Evaluation of the Changes in Working Limits in an Automobile Assembly Line using Simulation <i>L.P. Ferreira, E. Ares, G. Peláez, A. Resano, C.J. Luis, B. Tjahjono</i> • Analysis of the Influence of the Production Sequence in an Automobile Assembly Line, Modeled as a Network of Closed-Loops <i>L.P. Ferreira, E. Ares, G. Peláez, M. Marcos, M. Araújo</i> • Methodology to Generate Manufacturing Routes using Rules of Precedence <i>O.L. Agostinho, A. Batocchio, I. Bento da Silva</i> • A Review of the A400M Final Assembly Line Balancing Methodology <i>J. Ríos, F. Mas, J.L. Menéndez</i> • Virtual Verification of the AIRBUS A400M FAL Industrialization <i>J.L. Menéndez, F. Mas, J. Serván, J. Ríos</i> • Using Augmented Reality in AIRBUS A400M Shopfloor Assembly Work Instructions <i>J. Serván, F. Mas, J.L. Menéndez, J. Ríos</i> • Scenario for Concurrent Conceptual Assembly Line Design: a Case Study <i>F. Mas, J. Ríos, J.L. Menéndez</i>
<p>12.45–13.15</p>	<p>Plenary Lecture: Dieter Lung</p> <p style="text-align: center;"><i>“High Performance Cutting of Aircraft and Turbine Components”</i></p>
<p style="text-align: center;"><u>Session 7</u></p> <p>13.15–14.30</p>	<p style="text-align: center;"><u>Machining Processes II</u></p> <p><u>Chairman:</u> A. Lamíkiz <u>Chairwoman:</u> M. Calamaz <u>Session Secretary:</u> J. Salguero</p> <ul style="list-style-type: none"> • Study of Temperature and Workpiece Damage in Drilling of Carbon Fiber Composites <i>M. San Juan, O. Martín, F.J. Santos, J.A. Cabezudo, A. Sánchez</i> • Micro-machining of 3D Geometries for Medical Applications <i>J. Gomar, A. Amaro, E. Vázquez, J. Ciurana, C. Rodríguez</i> • Study of the Influence of Lubrication in Machining Operations <i>J. Grabalosa, G. Quintana, M.L. García-Romeu, J. Ciurana</i> • Torneado de Superaleaciones de tipo Intermetálico Gamma TiAl <i>A. Beranoagirre, L.N. López de Lacalle</i> • Sand Moulds Milling for One-of-a-Kind Pieces <i>A. Rodríguez, A. Calleja, D. Olvera, F.J. Peñafiel, L.N. López de Lacalle</i> • Comparing Low Cost Low Quality Cutting Tools Vs. High Cost High Quality Tools for Cutting Tool Selection <i>E. Bosch, G. Quintana, M.L. García-Romeu, J. Ciurana</i>
<p>14.30–16.00</p>	<p>Lunch</p>
<p>16.00–16.30</p>	<p>Plenary Lecture: <i>Steven Schmid</i></p> <p style="text-align: center;"><i>“Energy Needs and Consumption in Manufacturing Processes”</i></p>

<p>Session 8 16.30–18.00</p>	<p style="text-align: center;">Forming</p> <p>Chairmen: S. Schmid, M.A. Sellés Session Secretary: M. Batista</p> <ul style="list-style-type: none"> • Springback Evaluation for Trip 800 Steel Sheet by Simple Bending Tests <i>F.J. Avellaneda, V. Miguel, J. Coello, A. Martínez, A. Calatayud</i> • Experimental and FEM Analysis of the AA 6082 Processed by Equal Channel Angular Extrusion up to Two Passages using Route C <i>J. León, J.P. Fuertes, C. J. Luis, R. Luri, I. Puertas</i> • Experimental Analysis of Nano–structured Materials Forging by using Plane–shape Dies <i>C. J. Luis, I. Puertas, D. Salcedo, I. Pérez</i> • Optimization of Cold Formed Steel Cross Section Profile for Timber Upgrading <i>C. González–Bravo, R. Domingo, R. Álvarez</i> • Prediction of the Force of the Ball–Burnishing, Physical Model <i>H.A. González, J.A. Travieso</i> • Application of the Upper Bound Element Technique with Triangular Rigid Blocks in Indentation <i>C. Bermudo, F. Martín, L. Sevilla</i> • Evaluation of the Strain–Induced Martensite of TRIP 800 Steel by a Magnetic Induction Method <i>V. Miguel, F.J. Avellaneda, J. Coello, A. Martínez, A. Calatayud</i> 	
		<p style="text-align: center;">Meeting of MANUFUTURE Staff</p>
<p>18.00–18.30</p>	<p>Coffee–Break</p>	<p style="text-align: center;">Posters Session III</p>
<p>Session 9 18.30–19.30</p>	<p style="text-align: center;">9.1 Machining Processes III</p> <p>Chairmen: L.N. López de Lacalle, A. Sanz Session Secretary: J. Salguero</p> <ul style="list-style-type: none"> • Adaptive Control of Surface Finish in Automated Turning Processes <i>E. García–Plaza, P.J. Núñez, A.R. Martín, A. Sanz</i> • Development of a Simultaneous Monitoring System for Tool Flank Wear and Surface Roughness in Dry Steel Turning <i>D.R. Salgado, I.Camero, J.M. Herrera, F.J. Alonso</i> • Surface Topography Obtained in Side Milling Processes as a Function of Eccentricity and of the Helix Angle <i>I. Buj–Corral, J. Vivancos–Calvet, H. González–Rojas</i> • Análisis del Rendimiento de las Muelas Abrasivas en el Rectificado Plano <i>R. Fernández, A. Iriarte, P. Puerto, I. Gallego, P.J. Arrazola</i> <p style="text-align: center;">9.2 Quality and Quality Management</p> <p>Chairman: L. Sevilla Chairwoman: M.H. Miguélez Session Secretary: J.E. Díaz</p> <ul style="list-style-type: none"> • Integrated Study of Sustainability Technological–Economic in Manufacturing Processes <i>B. Peinado, L. Sevilla, M.A. Sebastián</i> • Development of a Device to Study Fatigue Life of Fixed Partial Dentures <i>S.C. Gutiérrez, M.D. Meseguer, R. Estal, F. Folguera, V. Vidal</i> • Modelo para la Gestión Integrada de Calidad, Medioambiente, Prevención de Riesgos Laborales y Aspectos Éticos Aplicado a Procesos de I+D+I y Procesos Productivos en una Organización <i>M.R. González, F. Torres, V. Yoldi, F. Arcega, I. Plaza</i> • Ergonomics and Simulation Tools for Improve Service & Industrial Process <i>A. Sánchez, M. García</i> 	




4th Manufacturing Engineering Society
International Conference

MESIC 2011

Cádiz, Spain, September 21st to 23rd, 2011

21.00

Gala Dinner

September 23 rd	
8.00–9.00	Registration
9.00–9.30	Plenary Lecture: Kuniaki Dohda <i>"Investigation on Micro Dimple Forming Process"</i>
Session 10 9.30–10.30	<p style="text-align: center;"><u>Production Planning</u></p> <p>Chairman: K. Dohda Chairwoman: R. Domingo Session Secretary: A. Pastor</p> <ul style="list-style-type: none"> • Metodología para el Establecimiento y Validación de Especificaciones de Fabricación en la Planificación de Procesos de Mecanizado <i>F. Romero, R. Morón, J. Serrano, G. Bruscas</i> • A Methodology for Decision-Making in the Performance Evaluation of Multiphase Multiproduct Production Lines <i>L.P. Ferreira, E. Ares, G.C Peláez, J. Diéguez</i> • Redescubriendo los Valores Ágiles: Similitudes con Estrategias de Mejora Continua <i>P. Díaz de Mera, J.M. Arenas, C. González</i> • Ingeniería de Fabricación Mecánica de la Cuna a la Cuna <i>M.E. Peralta, F. Aguayo, J.R. Lama</i>
10.30–11.00	Coffee-Break Posters Session IV
Session 11 11.00–12.30	<p style="text-align: center;"><u>Non-Traditional Machining Processes</u></p> <p>Chairmen: J.A. Sánchez, C. Vallellano Session Secretary: M. Batista</p> <ul style="list-style-type: none"> • Parameter Study on Laser Surface Finishing with 2D Scan Head <i>E. Ukar, I. Tabernero, F. Liébana, I. Saitua, R Villaseca, J. Sobrado</i> • Predicción de la Topografía Superficial en Acero de Herramientas Procesado con Láser de Diodo de Alta Potencia <i>E. Ukar, A. Lamikiz, S. Martinez, L.N. López de Lacalle</i> • An Experimental Analysis of Process Parameters to Manufacture Micro-Channels in AISI H13 Tempered Steel by Laser Micro-Milling <i>D. Teixidor, I. Ferrer, J. Ciurana</i> • Kerf Modelling in Abrasive Waterjet Milling using Evolutionary Computation and ANOVA Techniques <i>A. Alberdi, A. Rivero, A. Carrascal, A. Lamikiz</i> • Laser Remelting of Ti6Al4V using High Power Diode Laser <i>M.R. Amaya-Vázquez, J.M. Sánchez-Amaya, Z. Boukha, K. El Amrani, F.J. Botana</i> • A New Threshold of Accuracy, Efficiency and Ecology in the Wire Electrical Discharge Machining of Difficult-to-Machine Materials <i>J.A. Sánchez, S. Plaza, J.M. Ramos, B. Izquierdo, N. Ortega, I. Pombo</i> • USM™ (UltraSonic Molding). New Process and Machinery for Microparts Molding based on Ultrasound Excitation <i>F. Puliga, X. Planta</i>
12.30–14.00	 MES General Meeting
14.00–14.30	Closing Session
14.30–16.30	Closing Lunch

POSTERS (to be exhibited during the conference)

Chairmen: M. Marcos, A.J. Gámez, I. Medina, J.M. Sánchez Sola

Poster Sessions Secretaries: A. Gómez, M. Huerta, A. García-Domínguez, P. Mayuet

Advanced Manufacturing Processes

- DIC-CAM Recipe for Reverse Engineering
P. Romero-Carrillo, E. López-Alba, R. Dorado, F. Díaz-Garrido

CAD/CAM/CAE

- Comparative Study of Procedures Using Two Mold Design Tools
I. Cambero, J.M. Cidoncha, A. Marcelo, D.R. Salgado, J.M. Herrera
- Methodology for the Geometrical Characterization and 3D Modeling of End-Mill Cutting Tools
J. Salguero, P. Mayuet, R. Bienvenido, M. Batista, A. Gómez, M. Marcos

Forming

- Procesado y Caracterización de Green Composites con Matriz de Polihidroxibutirato y Refuerzos de Yute mediante Termocompresión
V.Fombuena, R. Balart, D. García-Sanoguera, O. Fenollar, M. D. Samper
- Advanced High Strength Steel (AHSS) TWIP: A Door to the Future in Metal Forming
R. Pla-Ferrando, S. Sánchez-Caballero, M.J. Reig, R. Pla, M.A. Sellés, V.J. Seguí
- Metal Forming Simulations: New Advanced Interface Models
S.R. Schmid, J. Liu, M.A. Sellés, T. Pasang
- Influence of Corrugation Shape in Steel Bars Ductility used on Reinforced Concrete
B. Hortigón, E.J. Nieto, F. Fernández, O. Hernández
- New Parametric Formulation of Elastoplastic Behavior in Ductile Metals
E.J. Nieto, B. Hortigón, F. Fernández, O. Hernández

Metrology

- Studying the Relation between Corrosion and Surface Roughness
P. Bassach, G. Quintana, I. Ferrer, J. Ciurana
- On-Machine Measurement of Turned Parts with a Laser Micrometer
G. Valiño, C.M. Suárez, C. Rico, B.J. Álvarez
- A Parametric Model for the Measurement Uncertainty of Linear Magnitudes in Non-Contact CMM
J.M. Vázquez, D. García, J.E. Garófano, J.P. Contreras, M. Marcos
- Kinematic Calibration of a 2-DOF Spatial Parallel Mechanism
A.C. Majarena, J. Santolaria, D. Samper, J.J. Aguilar
- Mathematical Modelling of an Indexed Metrology Platform
A. Brau, J. Santolaria, F.J. Brosted, A.C. Majarena, J.J. Aguilar
- Construction of a Two-Coordinates Measuring Machine from a Commercial Scanner
J. de Vicente, A. M. Sánchez, E. Gómez, C. Barajas
- Development of a Verification Technique for Machine-Tools using Multilateration and a Geometrical Approach
D. Acosta, J.A. Yagüe, J.A. Albajez, J. Velázquez, J.J. Aguilar
- Correlation in Optical Dimensional Metrology
J. de Vicente, A.M. Sánchez, E. Gómez, M. Berzal
- Considerations in Determining the Cost of Measurement Uncertainty Associated with Dimensional Tolerances Verification
A. Sanz, M. Villeta, M. A. Sebastián
- Comparative Analysis of Tolerances Allocation in Mechanical Assemblies based on Cost-Tolerance Curves
A. Sanz, M. Guimeráns, I. González, J. Pérez
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