

**7<sup>th</sup> DET 2011**  
**Conference Program**

<b>Tuesday, 27 September, 2011</b>			
17:00 – 19:00	<b>Onsite Registration</b>		
19:00 – 20:00	<b>Reception</b>		
<b>Day 1: Wednesday, 28 September, 2011</b>			
08:30 - 09:30	<b>Onsite Registration</b>		
09:30 – 10:00	<b>Opening Ceremony</b> Welcome by Prof. G. Chryssolouris DET Development by Prof. P. Maropoulos Conference Planning by Prof. D. Mourtzis		
10:00 – 10:30	<b>Keynote Paper</b> <b>P22: The role of simulation in digital manufacturing –applications and outlook</b> D. Mourtzis, N. Papakostas, D. Mavrikios, S. Makris, K. Alexopoulos		
10:30 – 11:00	<b>Coffee Break</b>		
11:00 – 12:00	<b>Session A1</b>  <b>P01: Economical Analysis for Investment on Measuring Systems</b> M. X. Zhang, P.G. Maropoulos, J. Jamshidi, N. B. Orchard  <b>P02: Measurement Assisted Assembly and the Roadmap to Part-to-Part Assembly</b> J. Muelaner, O.Martin, A.Kayani, P.G. Maropoulos	<b>Session B1</b>  <b>P03: Digital Factory Economics</b> Volkmann, J.; C.Constantinescu  <b>P42: Virtual Rapid Prototyping Machine</b> E. Pajak, F. Gorski, R. Wichniarek, P. Zawadzki	<b>Session C1</b>  <b>P11: Planning Software as a Service - A new approach for holistic and participative production planning processes</b> R.Moch, E.Müller  <b>P23: A software concept for process chain simulation in micro production</b> Bernd Scholz-Reiter. J. Jacobi, M. Lutjen
12:00 – 14:00	<b>Lunch Break</b>		

	<b>Session A2</b>	<b>Session B2</b>	<b>Session C2</b>
14:00 – 15:30	<p><b>P06: Integrated Large Volume Metrology Assisted Machine Tool Positioning</b> Zheng Wang, P.G. Maropoulos</p> <p><b>P08: Decision-making for Metrology System Selection based on Failure Knowledge Management</b> Wei Dai, Xi Zhang, P.Maropoulos, Xiaoqing Tang</p> <p><b>P10: Metrology enhanced tooling for aerospace (META): A live fixturing Wing Box assembly case study</b> O. C. Martin, J. Muelaner, Z. Wang, A. Kayani, D. Tomlinson, P. G. Maropoulos, P. Helgasson</p>	<p><b>P53: Digital Factory Simulation Tools for the Analysis of a Robotic Manufacturing Cell</b> A. Caggiano, R. Teti</p> <p><b>P05: Integrated Dimensional Variation Management in the Digital Factory</b> J E Muelaner, P.G. Maropoulos</p> <p><b>P51: A digital decision making framework integrating design attributes, knowledge and uncertainty in aerospace sector</b> T. Masood, J.Erkoyuncu, R.Roy, A. Harrison</p>	<p><b>P24: An Inventory and Capacity-Oriented Production Control Concept for the Shop Floor based on Artificial Neural Networks</b> B. Scholz-Reiter, F. Harjes, O. Stasch, J.Mansfeld</p> <p><b>P25: A multi-agent-enabled evolutionary approach to supply chain strategy formulation</b> Ray Wu, David Zhang</p> <p><b>P27: Multi-objective Optimization for the Successive Manufacturing Processes of the Paper Supply Chain</b> M. M. Malik, J. Taplin, M. Qiu</p>
15:30 – 16:00	<b>Coffee Break</b>		
	<b>Session A3</b>	<b>Session B3</b>	<b>Session C3</b>
16:00 – 17:30	<p><b>P36: Automation of the three-dimensional scanning process based on data obtained from photogrammetric measurement</b> R Konieczny, A. Riel, M. Kowalski, W. Kuczko, D. Grajewski</p> <p><b>P55: A Two-phase Instruments Selection System for Large Volume Metrology Based on Intuitionistic Fuzzy Sets with TOPSIS method</b> Bin Cai, J. Jamshidi, P.G. Maropoulos, P.Needham</p> <p><b>P57: Virtual Gage Design for the Effective Assignment of Position Tolerances under Maximum Material Condition</b> G. Kaisarlis, C. Provatidis</p>	<p><b>P56: Viewpoints on digital, virtual, and real aspects of manufacturing systems.</b> H. Nylund, P.Andersson</p> <p><b>P45: Realising the Open Virtual Commissioning of Modular Automation Systems</b> Xiangjun Kong, B. Ahmad, R. Harrison, Atul Jain, L. Lee, Y.Park</p> <p><b>P37: Recommending engineering knowledge in the product development process with Shape Memory Technology</b> R. Theiß, T. Sadek, S. Langbein</p>	<p><b>P35: Approach for the development of logistics enablers for changeability in global value chain networks</b> B. Scholz-Reiter, S. Schukraft, M.E. Özsahin</p> <p><b>P29: A multilevel reconfiguration concept to enable versatile production in distributed manufacturing</b> S. Minhas, M. Halbauer, U. Berger</p> <p><b>P04: CORBA Based architecture for feature based Design WITH ISO Standard 10303 Part 224</b> D. Kretz, J. Militzer, T. Neumann, C. Soika, T. Teich</p>
20:30 – 23:00	<b>Banquet</b>		

**Day 2: Thursday, 29 September, 2011**

09:30 – 10:00	<b>Plenary Session</b> <b>P46: Web-DPP: An Adaptive Approach to Planning and Monitoring of job-shop machining operations</b> Lihui Wang, Mohammad Givehchi		
10:00 – 10:30	<b>Coffee Break</b>		
10:30 – 12:00	<b>Session A4</b>	<b>Session B4</b>	<b>Session C4</b>
	<b>P54: Diverse noncontact reverse engineering systems for cultural heritage preservation</b> T.Segreto, A. Caggiano, R.Teti	<b>P15: Virtual Reality enhanced Manufacturing Systems Design</b> Xiang Yang, R. Malak, C. Lauer, C. Weidig, B. Hamann, H. Hagen, J. C. Aurich	<b>P40: Frequency Mapping for Robust and Stable Production Systems</b> R. Schmitt, S. Stiller
	<b>P59: Evaluation of Geometrical Uncertainty Factors during Integrated Utilization of Reverse Engineering and Rapid Prototyping Technologies</b> G. Kaisarlis, S. Polydoros, C. Provatidis	<b>P62: An Analysis of Human-Based assembly processes for immersive and Interactive Simulation</b> L.Rentzos, G.Pintzos, K. Alexopoulos., D. Mavrikios, G. Chryssolouris	<b>P64: Knowledge management framework, supporting manufacturing system design</b> K. Efthymiou, K. Alexopoulos. P. Sipsas, D. Mourtzis, G. Chryssolouris
	<b>P32: A virtual factory tool to enhance the integrated design of production lines</b> R. Hints, M. Vanca, W. Terkaj, E.D. Marra, S. Temperini, D. Banabic	<b>P60: Knowledge capitalization into Failure Mode and Effects Analysis</b> G. Candea, C. Candea, C. Zgripcea	<b>P31: Agile manufacturing systems with flexible assembly processes</b> S. Dransfeld, K. Martinsen, H. Raabe
12:00 – 14:00	<b>Lunch Break</b>		
14:00 – 15:30	<b>Session A5</b>	<b>Session B5</b>	<b>Session C5</b>
	<b>P16: Real Options Model for Valuating China Greentech Investments</b> Qin Han, L. K. Chu	<b>P20: Development of a STEP-based collaborative product data exchange environment</b> Xi Vincent Wang, X. Xu	<b>P48: A framework for performance management in collaborative manufacturing networks</b> P. S. Ferreira, P. F. Cunha
	<b>P19: A framework of an energy-informed machining system</b> Tao Peng, X. Xu	<b>P30: Virtual Factory Manager of Semantic Data</b> G. Ghielmini, P. Pedrazzoli, D. Rovere, M. Sacco, C.R. Boër, W.Terkaj, G.Dalmaso, F.Milella	<b>P49: Risk management in early stage of product life cycle by relying on Risk in Early Design (RED) methodology and using Multi-Agent System (MAS)</b> L. Sadeghi, M. Sadeghi

	<p><b>P61: Robust design optimization of energy efficiency: Cold roll forming process</b> J. Paralikas , K. Salonitis, G.Chryssolouris</p>	<p><b>P63: PROTOTYPE designing with the help of VR techniques: The case of aircraft cabin</b> L.Rentzos, G. Pintzos, K. Alexopoulos, D. Mavrikios, G.Chryssolouris</p>	<p><b>P65: A manufacturing ontology following performance indicators approach</b> K. Efthymiou, D. Melekos, K. Georgoulis, K. Sipsas, G. Chryssolouris</p>
15:30 – 16:00	<b>Coffee Break</b>		
	<b>Session A6</b>	<b>Session B6</b>	<b>Session C6</b>
16:00 – 17:30	<p><b>P17: User - Assisted Evaluation of Tool Path Quality for complex milling processes</b> C. Brecher , W. Lohse</p> <p><b>P58: Dimensional management in aerospace assemblies: case based scenarios for simulation and measurement of assembly variations</b> P. Vichare, O. Martin, J. Jamshidi, P.G. Maropoulos</p> <p><b>P68: Machining with robots: A critical review</b> J. Pandremenos, C. Doukas, P. Stavropoulos, G. Chryssolouris</p>	<p><b>P69: A pushlet-based wireless information environment for mobile operators in human based assembly lines</b> S. Makris, G. Michalos, G. Chryssolouris</p> <p><b>P34: Implementation and Enhancement of a Graphical Modelling Languages for Factory Engineering and Design</b> C. Constantinescu, G. Riexinger</p> <p><b>P18: Implementation of kinematic mechanism data exchange based on STEP</b> Yujiang Li, M. Hedlind, T. Kjellberg</p>	<p><b>P44: A Fuzzy Criticality Assessment System of Process Equipment for Optimized Maintenance Management</b> Qi H.S., N. Alzaabi, S. Wood, M. Jani.</p> <p><b>P47: Simulation Aided Development of Alternatives for Improved Maintenance Network</b> A. Azwan, A. Rahman, P. Bilge, G. Seliger</p> <p><b>P67 : A Web-based Platform for Distributed Mass Product Customization: Conceptual Design</b> D. Mourtzis, M. Doukas, G. Michalos, F. Psarommatis</p>
<b>Day 3: Friday, 30 September, 2011</b>			
	<b>Session A7</b>	<b>Session B7</b>	<b>Session C7</b>
09:00 – 10:30	<p><b>P21: Life cycle oriented evaluation of flexibility in investment decisions for automated assembly systems</b> A. Kampker, P. Burggräf, C. W. Potente, G. Petersohn</p> <p><b>P26: Development of an assembly sequence planning system based on assembly features</b> Hong Seok Park, Yong Qiang Wang</p>	<p><b>P50: Challenges in digital feedback of through-life engineering service knowledge to product design and manufacture</b> T. Masood, R. Roy, A. Harrison, S. Gregson, Y. Xu, C. Reeve</p> <p><b>P66: Structuring and applying production performance indicators</b> G. Pintzos, K. Alexopoulos, G. Chryssolouris</p>	<p><b>P33: Methodology for monitoring and managing the abnormal situation (event) in non-hierarchical business network</b> A. Shamsuzzoha, S. Rintala, T. Kankaanpää, L. Carneiro, P. Ferreira P. Cunha</p> <p><b>P41: An automated business process optimisation framework for the development of re-configurable business processes: a web services approach</b> A. Tiwari, C. Turner, A. Alechnovic, K. Vergidis</p>

	<p><b>P52: Product To Process Lifecycle Management in Assembly Automation Systems</b> B. Ahmad, I. U. Haq, T. Massod, R. Harrison, B.Raza, R.Monfared</p>	<p><b>P14: A novel tool for the design and simulation of Business Process Models</b> J. Pandremenos, K. Alexopoulos, G. Chryssolouris</p>	<p><b>P43: Manufacturing systems complexity an assessment of performance indicators unpredictability</b> K. Efthymiou, A. Pagoropoulos, N. Papakostas, D. Mourtzis, G. Chryssolouris</p>
10:30 – 11:00	<b>Coffee Break</b>		
	<b>Session A8</b>	<b>Session B8</b>	<b>Session C8</b>
11:00 – 12:30	<p><b>P28: Performance of 3-D Textured Micro- Thrust Bearings with Manufacturing Errors</b> A.G. Haritopoulos, E.E. Efstathiou, C.I. Papadopoulos, P.G. Nikolakopoulos, L. Kaiktsis</p> <p><b>P38: Kinematic structure representation of products and manufacturing resources</b> M. Hedlind, Yujiang Li, T. Kjellberg, L. Klein</p> <p><b>P07: HSC Machining Centre Basic Errors Prediction For Accuracy Control</b> J. Jedrzejewski, W. Kwasny</p>	<p><b>P09: Comprehensive Support of Technical Diagnosis by Means of Web Technologies</b> M. Michl, J. Franke, C. Fischer, J. Merhof</p> <p><b>P70: RFID-Based Real-time Shop-Floor Material Management: An AUTOM Solution and A Case Study</b> T. Qu, H. Luo, Y. Zhang, X. Chen, G. Q. Huang</p> <p><b>P39: Multi-agent-based real-time scheduling MODEL for RFID-enabled ubiquitous shop floor</b> T. Qu, George Q. Huang, YF Zhang, S.Sun</p>	<p><b>P12: Beyond the planning cascade: Harmonized planning in vehicle production</b> S. Auer, W. Mayrhofer, W. Sihn</p> <p><b>P13: Dynamic wavelet neural network model for forecasting returns of SHFE copper futures price</b> Li Shi , L. K. Chu, Yuhua Chen</p>
12:30 – 13:30	<b>Quick Lunch</b> <b>END of the Conference</b>		