

11 September

7.30-17.30 Registration

8.30-9.20 Opening Ceremony

Plenary Session

Real-time, Cooperative Enterprises
*Monostori, László; Váncza, József; Kis, Tamás;
 Kádár, Botond; Viharos, Zsolt János*

9.20-11.00 Session 1

Room A	Room B	Room C
Industrial Business Integration <i>Chairman: Vanderhaeghen, Dominik</i>	Process Modelling and Control <i>Chairman: Erdős, Gábor</i>	Production Planning and Control <i>Chairman: Kádár, Botond</i>
How to Create Evolving Information Models by a Layered Information Architecture <i>Främling, Kary; Holmström, Jan</i>	Plant Energy Consumption Reduction through Monitoring and Control System Based on Quality Management Concepts and Tools <i>Cesarotti, Vittorio; Di Silvio, Bruna; Introna, Vito</i>	Sizing Spare Parts with Demand Lumpiness: A Case Study in the Avionic Sector <i>Gerosa, Marco; Macchi, Marco; Fidanza, Fabrizio</i>
Managing Collaborative Business Process Lifecycles with Peer-to-Peer Technology <i>Werth, Dirk; Walter, Philipp</i>	Estimating the Stability Region of a Controlled Pressurized Water Reactor <i>Rozgonyi, Szabolcs; Hangos, Katalin M.</i>	Effectiveness of Advanced Planning and Scheduling Systems and Role of a Human Planner <i>Molnar, Zdenek; Hartman, Karel</i>
Impacts of B2B Applications on Business Processes of an OEM - A Study in the Automotive Industry <i>Minkus, André; Gerdes, Edo; Alard, Robert</i>	Modelling and Pre-dimensioning of Bonded Joint Assemblies <i>Nemes, Ovidiu; Lachaud, Frédéric; Mojtabi, Abdelkader; Tataru, Ovidiu</i>	A Methodology for Optimal Resources Determination and Allocation in a Crisis Management System <i>De Falco, Massimo; Novellino, Carmine</i>
Rule-enhanced Business Process Modelling <i>Seel, Christian; Simon, Björn; Werth, Dirk</i>	A New Heuristic Method for Inventory Control of Customized Mass Production <i>Mileff, Péter; Nehéz, Károly</i>	Production Ramp-up and the Role of Information <i>Fjällström, Sabina; Säfsten, Kristina; Berg, Magnus</i>

11.00-11.20 Coffee Break

11.20-13.00 Session 2

Room A	Room B	Room C
Automatic Identification and Tracking in Production Networks <i>Chairman: Dolgui, Alexandre</i>	Product Design Support Systems <i>Chairman: Tóth, Tibor</i>	E-learning, E-business <i>Chairman: Draghici, Anca</i>
The RFID Technology and its Current Applications <i>Ilie-Zudor, Elisabeth; Kemény, Zsolt; Egri, Péter; Monostori, László</i>	Collaboration Engineering Framework to Support New Product Development in the Automobile Industry <i>Quiescenti, Maia; Roma, Paolo, Perrone, Giovanni; Cossentino, Massimo</i>	Life-Cycle-Based (LCB) Online Acquisition Framework for Supporting Mass Customisation (MC) in Practice <i>Tang, Shyh-Jian; Tjahjono, B.; Kay, John M.</i>
Assessing RFID Technologies Impact in the Warehouse Processes <i>Pezzotta, Giuditta; Pinto, Roberto</i>	Design Issues that Today's Automotive Companies Confront with <i>Torkos, Zoltán</i>	ERP Teaching - An Evaluation of a Blended Learning Approach <i>Daun, Christine; Theling, Thomas; Loos, Peter</i>
Identity-based Tracking of Products and Product Data in Changing Networks <i>Ilie-Zudor, Elisabeth; Främling, Kary; Holmström, Jan; Monostori, László</i>	The Surface Description on the Stage of Designing <i>Cieloszyk, Janusz; Żmijewski, Władysław</i>	Educational Web System <i>Tomić, Teodor; Mauser, Bojan; Žilić, Tihomir; Essert, Mario</i>
Stochastic Simulation Model for Analysis and Improvement of a Transfer System <i>Gallo, Sergio; Fiorentini, Giovanni; Pancaldi, Elena</i>	Object-oriented Design of a Generative Product Configurator <i>Antonelli, Dario; Villa, Agostino</i>	e-Learning in Medium-sized Enterprises - a Case Study about Processes of the Content Production <i>Chikova, Pavlina; Leyking, Katrina; Loos, Peter</i>

13.00-14.00 Lunch

14.00-15.40 Session 3

Room A	Room B	Room C
<p>Industrial Business Integration <i>Chairman: Främling, Kary</i></p> <p>Business Service Management <i>Leyking, Katrina; Dreifus, Florian; Ziemann, Jörg; Martin, Andreas; Werth, Dirk</i></p> <p>Business Process Modelling in Enterprise Networks - Classification Criteria, Negotiation Process and Value-cost Considerations towards Model Transformations <i>Vanderhaeghen, Dominik; Loos, Peter</i></p> <p>Digital Business Ecosystem: Business Discovery Applications Supporting SME Networks and ICT Adoption <i>Cuccia, Luigi; La Commare, Umberto; Perrone, Giovanni; Scarpulla, Lorena; Alessi, Marco</i></p> <p>Connection of Business Dedicated Tools within an Environment of Collaborative Design <i>Chettaoui, Hanène; Noel, Frédéric</i></p>	<p>Process Modelling and Control <i>Chairman: Macchi, Marco</i></p> <p>Modeling and Parameter Estimation in Road Traffic Systems <i>Luspay, Tamás; Varga, István; Kulcsár, Balázs</i></p> <p>Simulation Models for Work Methods Optimization in a Real Manufacturing Plant <i>Longo, Francesco; Mirabelli, Giovanni, Papoff, Enrico</i></p> <p>Condition Based Maintenance: Implementation and Optimization of a Two-unit Serial System Model with Multithreshold Policy <i>De Carlini, Riccardo; Guizzi, Guido; Zoppoli, Pasquale</i></p>	<p>E-learning, E-business Product design Support System <i>Chairman: Egri, Péter</i></p> <p>EMASPEL (Emotional Multi-agents System for Peer to Peer e-Learning) <i>Neji, Mahmoud; Ben Ammar, Mohamed</i></p> <p>eSCM: A Web-based Education Platform for Interactive Supply Chain Management <i>Minichmayr, Jürgen; Gerosa, Marco</i></p> <p>Formal-Method-Based Software Development Applied on Embedded Systems: Platform-independent Source Code <i>Bliznak, Michal; Kolar, Dusan</i></p> <p>Tolerance Design for Non-dimensional Values <i>Grozav, Ion; Turc, Cristian</i></p>

15.40-16.10 Coffee Break

16.10-17.30 Session 4

Room A	Room B	Room C
<p>Enterprise Management <i>Chairman: Bartha, Tamás</i></p> <p>The Validity of Advanced TMS, a Strategic Development Marketing System - Toyota's Scientific Customer Creative Model Utilizing New JIT <i>Amasaka, Kakuro</i></p> <p>On the Measure of Individual Resources Flexibility <i>Rapaccini, Mario; Visintin, Filippo</i></p> <p>How to Control a Project - a Multidimensional Answer <i>Rozenes, Shai</i></p>	<p>Process Modelling and Control <i>Chairman: Werth, Dirk</i></p> <p>Implementation of a Consumption Control System - Results of a Simulation Survey <i>Bley, Helmut; Zenner, Christian</i></p> <p>Simulation-based Control Strategy Optimization by Using Genetic Algorithms <i>Pfeiffer, András; Kádár, Botond; Monostori, László; Karnok, Dávid</i></p> <p>The Web Application of Case-based Reasoning in Polishing Process Planning <i>Ngai, Brian K. K.; Huang, G.Q.; Lo, V.H.Y.</i></p>	<p>Product Design Support System <i>Chairman: Villa, Agostino</i></p> <p>Virtual Shoe Shopping Experience <i>Redaelli, Claudia; Pellegrini, Raffaella; Sacco, Marco</i></p> <p>Fuzzy Logic Using for Products Early Design Stage <i>Turc, Cristian-Gheorghe; Grozav, Ion</i></p> <p>The Product Lifecycle Management (PLM) - The Way how to Prevail Against Competitors in the Long Run <i>Matásková, Hana; Basl, Josef</i></p>

19.30 Cruise Dinner

12 September

8.00-18.00 Registration

9.00-11.00 Session 1

Room A	Room B	Room C
<p>Process Modelling and Control <i>Chairman: Sihh, Wilfried</i></p> <p>Advanced Dynamic Models for Analysis of Vibrations of Road Train Trailers with Big Loading Capacity <i>Aryassov, Gennady; Petritchenko, Andres</i></p> <p>Digital Factory <i>Kopeček, Pavel; Edl, Milan; Ulrich, Zdeněk</i></p> <p>Modeling and Simulation of Gear Transmission Silenced Working <i>Petru, Suru; Sosdean, Danut; Pamintas, Eugen; Dume, Adrian-Ilie</i></p> <p>Mathematical Methods in Solving Machine-part Grouping Problems <i>Körei, Attila; Tóth, Tibor</i></p> <p>Generation of Simulation Models based on Data from EIS <i>Ulrych, Zdenek</i></p>	<p>Enterprise Management <i>Chairman: Kádár, Botond</i></p> <p>Framework for Collaborative Performance Measurement <i>Matheis, Thomas; Simon, Björn; Werth, Dirk; Loos, Peter</i></p> <p>Small and Medium Sized Industrial Company Performance Diagnostics <i>Aschenbrennerová, Helena; Dvořáková, Lilia; Ublová, Martina</i></p> <p>Technology Management Model for Technology-intensive Manufacturing Plants <i>Cesarotti, Vittorio; Di Silvio, Bruna; Introna, Vito</i></p> <p>Six Sigma Methodology - Case Study <i>Majstorović, Vidosav; Šibalija, Tatjana</i></p> <p>The Implementation of the ERP Systems and the Challenge: A Case of Success <i>De Oliveira, Lindomar Subtil; Hatakeyama, Kazuo</i></p>	<p>Management and Optimisation of Production Networks <i>Chairman: Scholz-Reiter, Bernd</i></p> <p>Designing Order Management for Supply Networks with the Turbulence Pattern - a Qualitative Approach <i>Wiendahl, Hans-Hermann</i></p> <p>Behaviour-based Control for Uncertainty Management in Manufacturing Execution Systems <i>Hornyák, Olivér; Erdélyi, Ferenc; Kulcsár, Gyula</i></p> <p>Configurable Logistics Platform to Handle Supply Turbulences - A Case Study in a Focal Supply Network <i>Váncza, József; Egri, Péter; Wiendahl, Hans-Hermann</i></p> <p>Ant Colony for Optimizing the Supply Chain Management <i>Samet, A.; Choura, A.; Benabdelhafidh, A.; Alimi, M.A.</i></p> <p>Development of a Inferential Model Evaluating the Supply Chain Performance <i>Gallo, Mosè; Romano, Elpidio; Zoppoli, Vincenzo</i></p>

11.00-11.20 Coffee Break

11.20-13.00 Session 2

Room A	Room B	Room C
<p>Multi-Agent Approaches in the Context of Industrial Enterprises <i>Chairman: Váncza, József</i></p> <p>A Modelling Methodology for Control Processes of Autonomous Production Systems <i>Scholz-Reiter, Bernd; Hildebrandt, Torsten; Kolditz, Jan</i></p> <p>Engineering Environments for Flexible and Easy to Maintain Multi-agent Manufacturing Control Systems <i>Verstraete, Paul; Valckenaers, Paul; Van Brussel; Hendrik; Hadeli, Saint Germain Bart</i></p> <p>Modelling of Autonomously Controlled Logistic Processes in Production Systems <i>Böse, Felix; Windt, Katja; Teucke, Michael</i></p> <p>Medium Level Planning of Reconfigurable Enterprises: a Game Theoretical Approach <i>Argoneto, Pierluigi; Perrone, Giovanni; Renna, Paolo</i></p>	<p>Knowledge Management in Production <i>Chairman: Sacco, Marco</i></p> <p>Evolution of Technology and Skills in Production Workplaces Utilizing Advanced TPS <i>Yamaji, Manabu; Sakai, Hirohisa; Amasaka, Kakuro</i></p> <p>The Watermill Model: a Practical Framework for Diagnosing and Analyzing Knowledge Management Issues <i>Faran, Doron; Hauptman, Aharon; Raban, Yoel</i></p> <p>E-Support System for Collecting and Formalizing the User Knowledge - Case Study for a Furniture Enterprise <i>Mihartescu, Ana-Andreea; Draghici, Anca; Draghici, George</i></p> <p>The Influence of the Strategies for the Knowledge Conversion: The Success in the Application of Toyota Production System in the Automobile Industries <i>Hatakeyama, Kazuo; Shigueoka, Edson Noboru</i></p>	<p>Production Planning and Control <i>Chairman: Wiendahl, Hans-Hermann</i></p> <p>An Uncertain Routing-scheduling Problem in a Class of Manufacturing Systems <i>Józefczyk, Jerzy; Salwach, Tomasz</i></p> <p>Inter-enterprise Order Management System in a Pure Automotive BTO Manufacturing System <i>Mandel, Jörg; Esterházy, Matthaeus; Nayabi, Kasra H.</i></p> <p>Loading Policy on Parallel Machineris: The Test Unit of a Company Operating in the "White" Household-electrics Field <i>Guerra, Luigi; Guizzi, Guido; Santillo, Liberatina C.</i></p>

13.00-14.00 Lunch

14.00-16.00 Session 3

Room A	Room B	Room C
<p>Multi-Agent Approaches in the Context of Industrial Enterprises Management and Optimisation of Production Networks <i>Chairman: Valckenaers, Paul</i></p> <p>An Agent-based Architecture in Product Change Management during the Development Phase <i>Scholz-Reiter, Bernd; Leng, Bing; Krohne, Farian</i></p> <p>The Aero-engine Value Chain under Future Business Environments: Using Agent-based Simulation to Understand Dynamic Behavior <i>Buxton, David; Farr, Richard; MacCarthy, Bart</i></p> <p>An Agent-based Integrated Resource Control System <i>Pesenti, Raffaele; Rosi, Francesco; Salvador, Stefano; Ukovich, Walter</i></p> <p>Potentials and Challenges in the Supply Industry in Eastern Europe/ AREE - the SP+ Concept Enterprises to Participate in Supplier Parks <i>Schmitz, Klaus; Sihm, Wilfried</i></p> <p>Production and Inventory Control in a Multistage Network <i>Hennet, Jean-Claude</i></p>	<p>Intelligent Manufacturing Systems <i>Chairman: Perrone, Giovanni</i></p> <p>Decision Support Tools in Designing Supply Chains and Logistic Networks <i>Bielli, Maurizio; Felici, Giovanni; Mecoli, Mariagrazia</i></p> <p>Virtual Factory Framework as Key Enabler for Future Manufacturing <i>Pedrazzoli, Paolo; Rovere, Diego; Sacco, Marco; Jönsson, A.; Boër, Carlo Roberto</i></p> <p>An Evaluation Study of Approximate Methods for a Line Balancing Problem with Assembly Alternatives <i>Capacho, Liliana; Guschinskaya, Olga; Dolgui, Alexandre; Pastor, Rafael</i></p> <p>Formal Verification of Function Block Based Specifications of Safety-critical Software <i>Németh, Erzsébet; Bartha, Tamás</i></p> <p>Neural Networks in Meeting Challenges of Modern Manufacturing Industries <i>Rai, Jitender K.; Xirouchakis, Paul</i></p>	<p>Process Modelling and Control <i>Chairman: Kulcsár, Balázs</i></p> <p>New Consideration of Production Performance Management for Discrete Manufacturing Systems <i>Tóth, Tibor; Erdélyi, Ferenc</i></p> <p>Simulating the Interaction between the Shop Floor Personnel and the Manufacturing Execution System <i>Karnok, Dávid; Monostori, László; Kádár, Botond</i></p> <p>Selection Model of Maintenance Strategies based on Analytic Hierarchy Process <i>Costantino, Francesco; Di Gravio Giulio; Napolitano, Nicola; Tronci, Massimo</i></p> <p>Some Robot Application Issues in Sheet-metal Forming <i>Kovács, George L.; Nacsá, János</i></p> <p>An Integrated Methodology for Technical Process Reengineering in Manufacturing Plants <i>De Falco, Massimo; Iannone, Raffaele; Miranda, Salvatore</i></p>

16.00-16.30 Coffee Break

16.30-17.20 Session 4

Room A	Room B	Room C
<p>Enterprise Management <i>Chairman: Monostori, László</i></p> <p>Measuring and Managing the Interoperability Maturity of Model Based Collaborations <i>Kahl, Timo; Loos, Peter</i></p> <p>The Professional and Management Competences Evaluation as Part of Project Memory <i>Draghici, Anca; Matta, Nada; Draghici, George</i></p>	<p>Knowledge Management in Production <i>Chairman: Ilie-Zudor, Elisabeth</i></p> <p>Business Intelligence in Manufacturing <i>Tomič, Dražena; Markič, Brano; Pavlovič, Ivan</i></p> <p>Integration of Mechanical Analysis Knowledge in the Embodiment Design Process <i>Krikeb, Z.; Lafon, P; Troussier, N.</i></p>	

17.20-17.45 Conference Closing