

13th IFAC Symposium on Information Control Problems in Manufacturing 2009

**Moscow, Russia
3-5 June 2009**

Volume 1 of 3

ISBN: 978-1-61738-021-1

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



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Chair: Meerkov, Semyon M.	Univ. of Michigan
Co-Chair: Xie, Xiaolan	Ec. Nationale Supérieure des Mines de Saint-Etienne
18:00-18:24 <i>Modeling and Analysis of Two-Stage Systems with Parallel Machines and Limited Repair Capacity</i> , pp. 490-495. Colledani, Marcello (Pol. di Milano), Gershwin, Stanley (Massachusetts Inst. of Tech.)	We-C1.1
18:24-18:48 <i>Transient Behavior of Two-Machine Geometric Production Lines (I)</i> , pp. 496-501. Meerkov, Semyon M. (Univ. of Michigan), Shimkin, Nahum (Tech. - Israel Inst. of Tech.), Zhang, Liang (Univ. of Michigan)	We-C1.2
18:48-19:12 <i>Analysis of Re-Entrant Lines: An Iterative Approach (I)</i> , pp. 502-507. Liu, Yang (Univ. of Kentucky), Li, Jingshan (Univ. of Kentucky), Chiang, Shu_Yin (Ming Chuan Univ.)	We-C1.3
19:12-19:36 <i>An Efficient Buffer Design Algorithm for Production Line Profit Maximization (I)</i> , pp. 508-513. Shi, Chuan (Massachusetts Inst. of Tech.), Gershwin, Stanley (Massachusetts Inst. of Tech.)	We-C1.4
19:36-20:00 <i>Performance Evaluation of a Failure-Prone Manufacturing System with Time to Delivery and Stochastic Demand</i> , pp. 514-519. Turki, Sadok (Univ. Paul Verlaine de Metz), Hennequin, Sophie (ENIM), Sauer, Nathalie (Paul Verlaine Univ. of Metz - France / INRIA Grand Est- COS)	We-C1.5

We-C2	Small Conference Hall
Scheduling in Manufacturing – I (Invited Session)	

Chair: Gordon, Valery	United Inst. of Informatics Problems
Co-Chair: Werner, Frank	Otto-von-Guericke-Univ. Magdeburg
18:00-18:24 <i>Due Date Assignment and Scheduling under Special Conditions on Job Processing (I)</i> , pp. 520-525. Gordon, Valery (United Inst. of Informatics Problems), Dolgui, Alexandre (Ec. des Mines de Saint Etienne), Strusevich, Vitaly (Univ. of Greenwich)	We-C2.1
18:24-18:48 <i>Rescheduling for New Orders on a Single Machine with Setup Times (I)</i> , pp. 526-530. Hoogeveen, Han (Utrecht Univ.), Lente, Christophe (Univ. François Rabelais Tours), T'kindt, Vincent (Univ. François Rabelais Tours)	We-C2.2
18:48-19:12	We-C2.3

- Polynomial Algorithm for 1|R_j, P_j=p, Pm₁|sum W_{ic}_j Scheduling Problem (I)*, pp. 531-533.
Kvaratskhelia, Alexander (Kazan State Univ.), Lazarev, Alexander (Inst. of Control Sciences, Russian Acad. of Sciences)
- 19:12-19:36 We-C2.4
Estimations of an Absolute Error and the Scheme of the Approximated Solution Problems of the Scheduling Theory (I), pp. 534-537.
Lazarev, Alexander (Inst. of Control Sciences, Russian Acad. of Sciences)
- 19:36-20:00 We-C2.5
Integrated Production Scheduling and Shipping Problem for a Single Manufacturer and Multiple Customers (I), pp. 538-543.
Wang, Yuqiang (United Airlines), Sarin, Subhash (Virginia Tech.)

We-C3	Meeting Hall
Enterprise Resources Planning (Regular Session)	
Chair: Grubbström, Robert W.	Linköping Inst. of Tech.
Co-Chair: Thomas, André	Nancy Univ.
18:00-18:24	We-C3.1
<i>Dynamic Pricing and Production/Inventory Control: Batch-Size, Lost Sales and Random Leadtimes (I)</i> , pp. 544-549. Chen, Frank Y. (The Chinese Univ. of Hong Kong)	
18:24-18:48	We-C3.2
<i>A Simple Heuristic Algorithm Based on Segmentation to Solve Multilevel Lot-Sizing Problems (I)</i> , pp. 550-555. Kaku, Ikou (Akita Prefectural Univ.)	
18:48-19:12	We-C3.3
<i>Setting Planning Buffers in MRP Driven Manufacturing Networks Considering Their Implications on Safety Stock Cost</i> , pp. 556-561. Danne, Christoph (Heinz Nixdorf Inst. Univ. of Paderborn), Dangelmaier, Wilhelm (Heinz Nixdorf Inst. Univ. of Paderborn)	
19:12-19:36	We-C3.4
<i>Supply Chain Planning under Various Quantity Commitment Contracts</i> , pp. 562-567. Amrani-Zouggar, Ad'cha (IMS Lab. Univ. of Bordeaux, UMR5131 CNRS), Deschamps, Jean-Christophe (IMS Lab. Univ. of Bordeaux, UMR5131 CNRS), Bourriçres, Jean-Paul (IMS Lab. Univ. of Bordeaux, UMR5131 CNRS)	
19:36-20:00	We-C3.5
<i>Generation of Production Cycles in Multiple Server Systems with Setup Times: The Case Study</i> , pp. 568-573. Feoktistova, Varvara (Saint Petersburg Univ.), Matveev, Alexey S. (Saint Petersburg Univ.)	

We-C4	Reading Hall
Flexible Supply Chain Planning (Invited Session)	
Chair: Smirnov, Alexander	St.Peterburg Inst. for Informatics and Automation of the Russian Acad. of Sciences
Co-Chair: Sandkuhl, Kurt	School of Engineering at Jönköping Univ.
18:00-18:24	We-C4.1
<i>Issues in Supply Chain Stability Estimation in Flexible Supply Networks and Possible Methods and Tools for Their Decision (I)</i> , pp. 574-579. Ivanov, Dmitry (Chemnitz Univ. of Tech.), Sokolov, Boris (SPIIRAS)	
18:24-18:48	We-C4.2
<i>Simulation-Based Analysis and Optimisation of Planning Policies Over the Product Life Cycle within the Entire Supply Chain</i> , pp. 580-585. Merkuryeva, Galina (Riga Tech. Univ.), Napalkova, Liana (Riga Tech. Univ.), Vecherinska, Olesya (Riga Tech. Univ.)	
18:48-19:12	We-C4.3
<i>Mesoscopic Modeling and Simulation of Logistics Networks (I)</i> , pp. 586-591. Schenk, Michael (Fraunhofer Inst. for Factory Operation and Automation IFF Ma), Tolujew, Juri (Fraunhofer Inst. for Factory Operation and Automation IFF Ma), Reggelin, Tobias Max (Fraunhofer Inst. for Factory Operation and Automation IFF Ma)	
19:12-19:36	We-C4.4
<i>A Lot Sizing Model with Integrated Tour Planning (I)</i> , pp. 592-597. Boehle, Carsten (Univ. of Paderborn), Dangelmaier, Wilhelm (Heinz Nixdorf Inst. Univ. of Paderborn), Hellingrath, Bernd (Univ. of Muenster)	
19:36-20:00	We-C4.5
<i>Integrated Modelling Environment for Decision Making Support in Supply Chain Management: Conceptual Approach (I)</i> , pp. 598-603. Sokolov, Boris (SPIIRAS), Fridman, Alexander (Inst. for Informatics and Mathematical Modelling of the RAS)	

We-C5	Auditorium 1
Flexible Manufacturing Systems (Regular Session)	
Chair: Andreasson, Sven-Arne	Chalmers Univ. of Tech.
Co-Chair: Proth, Jean-Marie	INRIA
18:00-18:24	We-C5.1
<i>A Recursive Framework for Manufacturing Control (I)</i> , pp. 604-609. Andreasson, Sven-Arne (Chalmers Univ. of Tech.)	
18:24-18:48	We-C5.2
<i>A Zones Formation Algorithm for Tandem AGV Systems (I)</i> , pp. 610-615. Awasthi, Anjali (Concordia Univ.), Chauhan, Satyaveer (Concordia Univ.), Proth, Jean-Marie (INRIA)	
18:48-19:12	We-C5.3
<i>Pallet Pose Estimation with LIDAR and Vision for Autonomous Forklifts (I)</i> , pp. 616-621. Baglivo, Luca (Univ. of Padova), Bellomo, Nicolas (Univ. of Padova), Marcuzzi, Enrico (Univ. of Padova), Pertile, Marco (Univ. of Padova), Bertolazzi, Enrico (Univ. of Trento), De Cecco, Mariolino (Univ. of Trento)	
19:12-19:36	We-C5.4
<i>A Simulation Model for Parts Selection and Routing in Manufacturing Systems (I)</i> , pp. 622-627. Awasthi, Anjali (Concordia Univ.), Chauhan, Satyaveer (Concordia Univ.)	
19:36-20:00	We-C5.5

Management of Changes in a Holonic Manufacturing System with Dual-Horizon Dynamic Rescheduling of Production Orders (I), pp. 628-633.

Borangi, Theodor (Univ. Pol. of Bucharest, Faculty of Control and Comp), Raileanu, Silviu (Faculty of Automatic Control and Computers), Rosu, Andrei (Univ. Pol. of Bucharest), Parlea, Mihai (Univ. Pol. of Bucharest), Anton, Florin Daniel (Univ. Pol. of Bucharest)

We-C6	Auditorium 2
Enterprise Modelling for Interoperability in Collaborative Networked Enterprise (Invited Session)	
Chair: Chen, David	Univ. Bordeaux I
Co-Chair: Romero, David	ITESM, Campus Mexico
18:00-18:24	We-C6.1
<i>Next Generation Manufacturing Systems and the Virtual Enterprise (I)</i> , pp. 634-641.	
Romero, David (ITESM, Campus Mexico), Rabelo, Ricardo (UFSC - Univ. Federal de Santa Catarina), Hincapie, Mauricio (Tecnológico de Monterrey), Molina, Arturo (Tecnologico de Monterrey)	
18:24-18:48	We-C6.2
<i>Enterprise Interoperability Short-Lived Ontology for HLA Compliant Federated Enterprise Interoperability Approach (I)</i> , pp. 642-647.	
Zacharewicz, Gregory (Univ. of Bordeaux), Chen, David (Univ. of Bordeaux), Vallespir, Bruno (Univ. of Bordeaux)	
18:48-19:12	We-C6.3
<i>Process Modeling Based Integration (I)</i> , pp. 648-653.	
Li, Qing (Tsinghua Univ. China), Wang, Cheng (Tsinghua Univ. China)	
19:12-19:36	We-C6.4
<i>Model Driven Interoperability through Semantic Annotations Using SoaML and ODM (I)</i> , pp. 654-659.	
Xu, JiuCheng (SINTEF), Bai, ZhaoYang (SINTEF), Berre, Arne.J. (SINTEF), Christer, Odd (Cicero Consulting)	
19:36-20:00	We-C6.5
<i>A Business Model for Potential Customers Identification and Personalized Knowledge Provision of TSPs</i> , pp. 660-665.	
Yang, Shih-Ting (Nanhua Univ.), Hou, Jiang-Liang (National Tsing Hua Univ.)	
We-C7	Auditorium 3
Advanced Software Engineering in Industrial Automation – II (Invited Session)	
Chair: Vyatkin, Valery	Univ. of Auckland
Co-Chair: Thramboulidis, Kleanthis	Univ. of Patras
18:00-18:24	We-C7.1
<i>Statistical Testing of IEC 61499 Compliant Software Components (I)</i> , pp. 666-671.	
Hussain, Tanvir (Fraunhofer Inst. for Experimental Software Engineering), Eschbach, Robert (Fraunhofer Inst. for Experimental Software Engineering)	
18:24-18:48	We-C7.2
<i>Aspect-Oriented Programming for Manufacturing Automation Control Systems (I)</i> , pp. 672-677.	
Bengtsson, Kristofer (Teamster AB), Lennartson, Bengt (Chalmers Univ. of Tech.), Yuan, Chengyin (General Motors, R&D)	
18:48-19:12	We-C7.3
<i>Using GenERTICA to Generation Code from RT-UML: A Case Study (I)</i> , pp. 678-683.	
Wehrmeister, Marco Aurelio (UFRGS), Freitas, Edison Pignaton (UFRGS), Pereira, Carlos Eduardo (Federal Univ. of Rio Grande do Sol)	
19:12-19:36	We-C7.4
<i>Application of Genetic Programming for Generation of Controllers Represented by Automata (I)</i> , pp. 684-689.	
Davydov, Andrey (SPbSU IFMO), Sokolov, Dmitry (SPbSU IFMO), Tsarev, Fedor (St Petersburg State Univ. of IT, Mechanics and Optics), Shalyto, Anatoly (St Petersburg State Univ. of IT, Mechanics and Optics)	
19:36-20:00	We-C7.5
<i>Integration of a DCS Based on IEC 61499 with Industrial Batch Management Systems (I)</i> , pp. 690-695.	
Lepuschitz, Wilfried (Vienna Univ. of Tech.), Zoitl, Alois (Vienna Univ. of Tech.)	
We-C8	Room 307
Probabilistic & Statistical Models in Industrial Plant Control – II (Invited Session)	
Chair: Nikiforov, Igor V.	Univ. de Tech. de Troyes
Co-Chair: Mandel, Alexander Solomonovich	V.A. Trapeznikov Inst. of Control Sciences of the RAS
18:00-18:24	We-C8.1
<i>Integrating Dynamic Control Charts and Maintenance Policies (I)</i> , pp. 696-700.	
Maillart, Lisa M. (Univ. of Pittsburgh), Yeung, Thomas G. (École des Mines de Nantes), Icten, Z. Gozde (Univ. of Pittsburgh)	
18:24-18:48	We-C8.2
<i>New Approach to Training of Technical Systems Fault Diagnosis Skills: Use of Probabilistic Models (I)</i> , pp. 701-706.	
Dozortsev, Victor (Inst. of Control Sciences), Nazin, Vladimir A. (ZAO Honeywell)	
18:48-19:12	We-C8.3
<i>Algorithms for Detection of Changes in Random Processes for Monitoring of the Ecological Characteristics (I)</i> , pp. 707-712.	
Grebenuk, Helen (Inst. of Control Sciences)	
19:12-19:36	We-C8.4
<i>Fault Detection and Isolation Based on the Constrained GLR Test (I)</i> , pp. 713-718.	
Nikiforov, Igor V. (Univ. de Tech. de Troyes)	
19:36-20:00	We-C8.5
<i>Clustering Methods in the Problem of Industrial Plant Identification (I)</i> , pp. 719-723.	
Dorofeyuk, Julia (Insitute of Control Sciences of the RAS), Dorofeyuk, Alexander (Insitute of Control Sciences of the RAS)	
Th-KN	Large Conference Hall
Keynote Addresses – II (Plenary Session)	
09:30-10:20	Th-KN.1

- Novel IT Approaches and Solutions towards Real-Time, Cooperative Enterprises*, pp. 724-731.
 Monostori, Laszlo (Computer and Automation Res. Inst. Hung. Acad. Sci.), Váncza, Józsa (Computer and Automation Res. Inst. Hung. Acad. Sci.), Kis, Tamas (Computer and Automation Res. Inst. Hung. Acad. Sci.), Kádár, Botond (Computer and Automation Res. Inst. Hung. Acad. Sci.), Erdos, Gabor (Computer and Automation Res. Inst. Hung. Acad. Sci.), Karnok, David (Computer and Automation Res. Inst. Hung. Acad. Sci.), Egri, Peter (Computer and Automation Res. Inst. Hung. Acad. Sci.)
- 09:30-10:20 Th-KN.2
Technical, Semantic and Organizational Issues of Enterprise Interoperability and Networking, pp. 732-737.
 Vernadat, François (European Court of Auditors)
- 09:30-10:20 Th-KN.3
Influence of Computer Science and Information Technologies on Progress in Theory and Control Systems for Complex Plants, pp. 738-753.
 Yusupov, Rafael Midhatovich (SPIIRAS, Saint Petersburg), Sokolov, Boris (SPIIRAS, Saint Petersburg)

Th-A1 Large Conference Hall
Line Design and Balancing (Invited Session)

- Chair: Bukchin, Yossi Tel Aviv Univ.
 Co-Chair: Dolgui, Alexandre Ec. des Mines de Saint Etienne
- 13:00-13:24 Th-A1.1
An Approach to Transfer Line Balancing Via a Special Set Partitioning Problem (I), pp. 754-759.
 Dolgui, Alexandre (Ec. des Mines de Saint Etienne), Ihnatsenka, Ivan (Yanka Kupala Grodno State Univ.)
- 13:24-13:48 Th-A1.2
Disassembly Scheduling for Family of Products, pp. 760-765.
 Duta, Luminita (Univ. Valahia of Targoviste), Caciula, Ion (Univ. Valahia of Targoviste), Henrioud, Jean-Michel (Univ. de Franche-Comté), Filip, Florin Gheorghe (Romanian Acad.)
- 13:48-14:12 Th-A1.3
A GRASP Heuristic for Sequence-Dependent Transfer Line Balancing Problem (I), pp. 766-771.
 Essafi, Mohamed (Ec. des Mines de Saint Etienne), Delorme, Xavier (Ec. des Mines de Saint Etienne), Dolgui, Alexandre (Ec. des Mines de Saint Etienne)
- 14:12-14:36 Th-A1.4
Scheduling Physician Working Periods of a Chemotherapy Outpatient Unit, pp. 772-777.
 Mazier, Alexandre (Ec. Nationale Supérieure des Mines de Saint-Etienne), Xie, Xiaolan (Ec. Nationale Supérieure des Mines de Saint-Etienne)
- 14:36-15:00 Th-A1.5
Deterministic and Dynamic Solution Approach for Welds Reallocation Due to Robot's Failures (I), pp. 778-783.
 Rosenberg, Roey (Tel Aviv Univ.), Bukchin, Yossi (Tel Aviv Univ.), Ben-Gal, Irad (Tel Aviv Univ.)

Th-A2 Small Conference Hall
Scheduling in Manufacturing – II (Invited Session)

- Chair: Levner, Eugene Holon Inst. of Tech.
 Co-Chair: Lazarev, Alexander Inst. of Control Sciences, Russian Acad. of Sciences
- 13:00-13:24 Th-A2.1
A Parametric Algorithm for 2-Cyclic Robotic Scheduling with Interval Processing Times (I), pp. 784-789.
 Levner, Eugene (Holon Inst. of Tech.), Kats, Vladimir (Inst. for Industrial Mathematics)
- 13:24-13:48 Th-A2.2
Hierarchical Scheduling of Mobile Robots in Production-Transportation Supply Chains (I), pp. 790-795.
 Levner, Eugene (Holon Inst. of Tech.), Meyzin, Leonid (Holon Inst. of Tech.), Werner, Frank (Otto-von-Guericke-Univ. Magdeburg)
- 13:48-14:12 Th-A2.3
A New Branch-And-Bound Algorithm for the Unrelated Parallel Machine Scheduling Problem with Sequence-Dependent Setup Times (I), pp. 796-801.
 Aramoon-Bajestani, M. (Univ. of Tehran), Tavakkoli-Moghaddam, Reza (Univ. of Tehran)
- 14:12-14:36 Th-A2.4
A New Mathematical Model for Fuzzy Flexible Flow Shop Scheduling of Unrelated Parallel Machines Maximizing the Weighted Satisfaction Level (I), pp. 802-807.
 Tavakkoli-Moghaddam, Reza (Univ. of Tehran), Rezaei, Nazila (Univ. of Tehran), Torabi, S.A. (Univ. of Tehran)
- 14:36-15:00 Th-A2.5
An Optimal Integrated Production Planning and Scheduling Method for Bell-Type Anneal Shop (I), pp. 808-813.
 Liu, Ying (Dalian Univ. of Tech.), Zhao, Jun (Dalian Univ. of Tech.), Wang, Wei (Dalian Univ. of Tech.)

Th-A3 Meeting Hall
Models and Algorithms for Robust Production Planning (Invited Session)

- Chair: Grabot, Bernard ENIT France
 Co-Chair: Ould Louly, Aly Mohamed King Saud Univ.
- 13:00-13:24 Th-A3.1
Approximations of Order-Up-To-Levels in Inventory Systems with Compound Poisson Demand, pp. 814-819.
 Babai, Mohamed Zied (BEM Bordeaux Management School), Jemai, Zied (Ec. Centrale Paris), Dallery, Yves (Ec. Centrale Paris)
- 13:24-13:48 Th-A3.2
A Multi-Item Lot Sizing Model for a Practical Capacitated Two-Stage Production System (I), pp. 820-825.
 Aghezzaf, El-Houssaine (Ghent Univ.), Sitompul, Carles (Ghent Univ.)
- 13:48-14:12 Th-A3.3
An Integrated Production and Maintenance Planning Model with Time Windows and Shortage Cost (I), pp. 826-831.
 Alaoui Selsouli, Marouane (Ec. des Mines de Nantes), Najid, Najib. M. (Univ. de Nantes), Mohafid, Abdelmoula (Univ. de Nantes), Aghezzaf, El-Houssaine (Ghent Univ.)
- 14:12-14:36 Th-A3.4
Multi-Product Lot-Sizing and Scheduling on Unrelated Parallel Machines to Minimize Makespan (I), pp. 832-837.

Dolgui, Alexandre (Ec. des Mines de Saint Etienne), Ereemeev, Anton (Omsk Branch of Sobolev Inst. of Mathematics SB RAS), Kovalyov, Mikhail Y. (Unated Inst. of Informatics Problems), Kuznetsov, Pavel (Omsk State Univ.)

14:36-15:00 Th-A3.5

[Generalized Newsboy Model for MRP Parameterization under Uncertainties \(I\)](#), pp. 838-843.

Ould Louly, Aly Mohamed (King Saud Univ.), Dolgui, Alexandre (Ec. des Mines de Saint Etienne)

Th-A4 Reading Hall

Supply Chain Agility and Adaptability (Invited Session)

Chair: Smirnov, Alexander St.Petersburg Inst. for Informatics and Automation of the Russian Acad. of Sci.
Co-Chair: Ivanov, Dmitry Chemnitz Univ. of Tech.

13:00-13:24 Th-A4.1

[Supplier Selection in an Agile Supply Chain Environment Using Fuzzy Axiomatic Design Approach](#), pp. 844-849.

Buyukozkan, Gulcin (Galatasaray Univ.), Arsenyan, Jbid (Bahcesehir Univ.)

13:24-13:48 Th-A4.2

[Modelling and Analysis of Autonomously Controlled Production Networks \(I\)](#), pp. 850-855.

Scholz-Reiter, Bernd (Univ. of Bremen), G6rges, Michael (Univ. of Bremen), Jagalski, Thomas (Univ. of Bremen), Mehrai, Afshin (Univ. of Bremen)

13:48-14:12 Th-A4.3

[Neural Network Based Text Mining to Discover Enterprise Networks \(I\)](#), pp. 856-861.

Hajlaoui, Kafil (G2I), Boucher, Xavier (Ec. Nationale Sup6rieure des Mines de Saint Etienne)

14:12-14:36 Th-A4.4

[A Multiagent Approach for Modelling SMEs Mechatronic Supply Chains](#), pp. 862-867.

Tounsi, Jihene (Univ. de Savoie), Azaiez, Selma (CEA, LIST), Habchi, Georges (Univ. de Savoie), Boissiere, Julien (Univ. de Savoie)

14:36-15:00 Th-A4.5

[Management Concept and Tools of Competence-Cell Based Modularized Agile Supply Chains \(I\)](#), pp. 868-873.

Ivanov, Dmitry (Chemnitz Univ. of Tech.), Teich, Tobias (FH Zwickau)

Th-A5 Auditorium 1

Telematics in Manufacturing Control (Regular Session)

Chair: Pereira, Carlos Eduardo Federal Univ. of Rio Grande do Sol

13:00-13:24 Th-A5.1

[Evaluation of Indoor Positioning Technologies under Industrial Application Conditions in the SmartFactoryKL Based on EN ISO 9283 \(I\)](#), pp. 874-879.

Stephan, Peter (German Res. Center for Artificial Intelligence), Heck, Ines (Univ. of Kaiserslautern), Kraus, Peter (Univ. of Kaiserslautern), Frey, Georg (German Res. Center for Artificial Intelligence - DFKI)

13:24-13:48 Th-A5.2

[Generating Reference Traces by Simulation for Tracking Control-Logic](#), pp. 880-885.

Trujillo, Jesus (VS-Agent Tech.), Pawlewski, Pawel (Poznan Univ. of Tech.), Pasek, Zbigniew (Univ. of Windsor)

13:48-14:12 Th-A5.3

[IEC61499 Service Interface Function Blocks to Access Decentralized Peripherals with Profibus DP](#), pp. 886-891.

Moran Solano, Maria Guadalupe (Univ. Autonoma del Estado de Mexico), Perez, Federico (Univ. of the Basque Country), Orive, Dario (Univ. del Pais Vasco), Est6vez, Elisabet (Univ. del Pais Vasco), Marcos, Marga (Univ. del Pais Vasco)

14:12-14:36 Th-A5.4

[Composition of Time-Constrained BPEL4WS Workflows Using the TiCS Modeler](#), pp. 892-897.

Mathes, Markus (Univ. of Marburg), Schwarzkopf, Roland (Univ. of Marburg), Doernemann, Tim (Univ. of Marburg), Heinzl, Steffen (Univ. of Marburg), Freisleben, Bernd (Univ. of Marburg)

14:36-15:00 Th-A5.5

[Benefits of an Interdisciplinary Modular Concept in Automation of Machine and Plant Manufacturing](#), pp. 898-903.

Sim, Tze Ying (Univ. of Kassel), Li, Fang (Univ. of Kassel), Vogel-Heuser, Birgit (Univ. of Kassel)

Th-A6 Auditorium 2

Enabling Reuse in Enterprise Systems Engineering (Invited Session)

Chair: Whitman, Lawrence Wichita State Univ.
Co-Chair: Vernadat, Fran7ois European Court of Auditors

13:00-13:24 Th-A6.1

[UML Profiles for Transforming GRAI Decisional Models into UML Use Cases \(I\)](#), pp. 904-909.

Grangel Seguer, Reyes (Univ. Jaime I), Bigand, Michel (Ec. Centrale de Lille), Bourey, Jean-Pierre (Ec. Centrale de Lille)

13:24-13:48 Th-A6.2

[Architecture for Explicit Specification of Agent Behavior \(I\)](#), pp. 910-915.

Radakovic, Miloslav (Faculty of Electrical Engineering, Czech Tech. Univ.), Obitko, Marek (Czech Tech. Univ.), Vrba, Pavel (Rockwell Automation)

13:48-14:12 Th-A6.3

[Modelling Interoperability in Networked Organisations with the Connector Concept \(I\)](#), pp. 916-921.

Carstensen, Anders (J6nk6ping Univ.), Holmberg, Lennart (Kongsberg Automotive), Sandkuhl, Kurt (School of Engineering at J6nk6ping Univ.)

14:12-14:36 Th-A6.4

[A Practical Enterprise Model Repository \(I\)](#), pp. 922-927.

Whitman, Lawrence (Wichita State Univ.), Huffman, John (Spirit Aerosystems)

14:36-15:00 Th-A6.5

[Refining the Notion of Responsibility in Enterprise Engineering to Support Corporate Governance of IT](#), pp. 928-933.

Feltus, Christophe (Public Res. Centre Henri Tudor), Petit, Michael (Univ. of Namur), Vernadat, Fran7ois (European Court of Auditors)

Th-A7	Auditorium 3
Discrete Event Systems: Modeling, Performance Evaluation and Supervisory Control – I (Invited Session)	
Chair: Alla, Hassane Co-Chair: Demongodin, Isabel	Univ. Joseph Fourier Univ. Paul Cézanne
13:00-13:24	Th-A7.1
<i>Batches Petri Nets with Controllable Batch Speed for Transportation Systems (I)</i> , pp. 934-939. Demongodin, Isabel (Univ. Paul Cézanne), Terzi, Laurentiu (Renault Tech. Roumanie (RTR))	
13:24-13:48	Th-A7.2
<i>Supervisory Controller Design to Enforce Some Basic Properties in Timed Petri Nets (I)</i> , pp. 940-945. Aybar, Aydin (Anadolu Univ.), Iftar, Altug (Anadolu Univ.)	
13:48-14:12	Th-A7.3
<i>Feedback Control Logic Synthesis for Non Safe Petri Nets (I)</i> , pp. 946-951. Dideban, Abbas (Semnan Univ.), Alla, Hassane (ENSE3)	
14:12-14:36	Th-A7.4
<i>Identification of Timed Stochastic Petri Net Models with Normal Distributions of Firing Periods (I)</i> , pp. 952-957. Leclercq, Edouard (Univ. Le Havre), Lefebvre, Dimitri (Univ. Le Havre), Ould El Mehdi, Souleiman (Univ. Le Havre)	
14:36-15:00	Th-A7.5
<i>Online Diagnosis of Systems with Rectangular Hybrid Automata Models (I)</i> , pp. 958-963. Derbel, Haithem (Gipsa-Lab.), Alla, Hassane (Univ. Joseph Fourier), Ben Hadj-Alouane, Nejib (Applied Information Sciences), Yeddes, Moez (ENSI)	
Th-A8	Room 307
Advanced Software Engineering in Industrial Automation – III (Invited Session)	
Chair: Vyatkin, Valeriy Co-Chair: Dubinin, Victor	Univ. of Auckland Univ. of Penza
13:00-13:24	Th-A8.1
<i>Model Checking of Multi-Agent Distributed Reconfigurable Embedded Control Systems (I)</i> , pp. 964-969. Khalgui, Mohamed (Martin Luther Univ.), Mosbahi, Olfa (Martin Luther Univ.), Hanisch, Hans-Michael (Martin Luther Univ. Halle-Wittenberg)	
13:24-13:48	Th-A8.2
<i>Building Meaningful Timed Plant Models for Verification Purposes (I)</i> , pp. 970-975. Perin, Matthieu (ENS Cachan), Faure, Jean-Marc (ENS Cachan)	
13:48-14:12	Th-A8.3
<i>Pattern-Based Analysis of Automated Production Systems (I)</i> , pp. 976-981. Campos, José Creissac (Univ. of Minho), Machado, José (Univ. of Minho)	
14:12-14:36	Th-A8.4
<i>Using Web Services to Achieve Code Reuse in Manufacturing Applications (I)</i> , pp. 982-987. Sarachaga González, Mª Isabel (Faculty of Engineering, Univ. of the Basque Country), Estévez, Elisabet (Univ. del País Vasco), Armentia, Aintzane (Univ. del País Vasco), Burgos, Arantzazu (E.U.I.T.I. de Bilbao, Univ. of the Basque Country), Marcos, Marga (Univ. del País Vasco)	
14:36-15:00	Th-A8.5
<i>Performance Analysis of a Real-Time Java Execution Environment for IEC61499 (I)</i> , pp. 988-993. Thramboulidis, Kleanthis (Univ. of Patras), Doukas, George (Univ. of Patras)	
Th-B	Lobby Hall
Artificial Intelligence and Operations Research Techniques (Poster Session)	
Chair: Dolgui, Alexandre Co-Chair: Werner, Frank	Ec. des Mines de Saint Etienne Otto-von-Guericke-Univ. Magdeburg
15:00-16:30	Th-B.1
<i>Tabu Search Metaheuristic Embedded in Adaptive Memory Procedure for the Profitable Arc Tour Problem</i> , pp. 994-999. Euchi, Jalel (Faculty of Ec. and management of Sfax, Tunisia)	
15:00-16:30	Th-B.2
<i>A Model for Storage Arrangement and Re-Allocation</i> , pp. 1000-1005. Hou, Jiang-Liang (National Tsing Hua Univ.)	
15:00-16:30	Th-B.3
<i>Modeling and Decomposition of Complex Dynamic Interconnected Systems</i> , pp. 1006-1011. Quyung, XinYu (Dalian Univ. of Tech. Dalian, China), Chen, Xue-Bo (Liaoning Univ. of Sci. & Tech.), Wang, Wei (Dalian Univ. of Tech.)	
15:00-16:30	Th-B.4
<i>Optimal Linear Quadratic Gaussian Problem Applied to Reverse Logistics System</i> , pp. 1012-1017. Silva Filho, Oscar Salviano (Centro de Tecnologia de Informação - Renato Archer)	
15:00-16:30	Th-B.5
<i>SoS Methodologies for the Definition of Lean Manufacturing Systems (I)</i> , pp. 1018-1023. Alfieri, Arianna (Pol. di Torino), Cantamessa, Marco (Pol. di Torino), Montagna, Francesca (Pol. di Torino)	
15:00-16:30	Th-B.6
<i>Optimizing Crude Oil Operations under Uncertainty</i> , pp. 1024-1029. Wang, Jishuai (Zhejiang Univ.), Rong, Gang (Zhejiang Univ.), Feng, YiPing (Zhejiang Univ.)	
15:00-16:30	Th-B.7
<i>Negotiation Model in a Multi-Agent Supply Chain System for the Crisis Management</i> , pp. 1030-1035. Zgaya, Hayfa (Ec. Centrale de Lille), Hammadi, Slim (Ec. Centrale de Lille), Bretaudeau, Francis (EADS Defence and Security Systems), Zoghalmi, Nesrine (Ec. Centrale de Lille)	
15:00-16:30	Th-B.8

- On the Complexity of Dissociation Set Problems in Graphs (I)*, pp. 1036-1040.
Orlovich, Yuri (State Univ. of Belarus), Dolgui, Alexandre (Ec. des Mines de Saint Etienne), Finke, Gerd (Univ. Joseph Fourier), Gordon, Valery (United Inst. of Informatics Problems), Werner, Frank (Otto-von-Guericke-Univ. Magdeburg)
- 15:00-16:30 Th-B.9
- Fuzzy Supervisory Control System for a Fed-Batch Baker's Yeast Fermentation Process*, pp. 1041-1046.
Halim, George (Faculty of Engineering, Ain Shams Univ.)
- 15:00-16:30 Th-B.10
- Minimizing Total Weighted Tardiness and Flow Time for Unrelated Parallel Machines Scheduling with Matching-Improvement Evolutionary Algorithms*, pp. 1047-1052.
Chyu, Chih-Cheng (Yuan-Ze Univ.), Chang, Wei-Shung (Yuan-Ze Univ.)
- 15:00-16:30 Th-B.11
- Multi-Objective Maintenance Workforce Scheduling in a Steel Company*, pp. 1053-1058.
Safaei, Nima (Univ. of Toronto), Banjevic, Dragan (Univ. of Toronto), Jardine, Andrew K.S. (Univ. of Toronto)
- 15:00-16:30 Th-B.12
- A Genetic Algorithm Approach for a Dynamic Cell Formation Problem (I)*, pp. 1059-1064.
Javadian, Javadian (Mazandaran Univ. of Science & Tech.), Seyyedi, Seyyedi (Mazandaran Univ. of Science & Tech.), Rezaeian, Rezaeian (Mazandaran Univ. of Science & Tech.)
- 15:00-16:30 Th-B.13
- Continuous Models for Single and Dual Cycle Times of a Multi Aisle Automated Storage and Retrieval System (I)*, pp. 1065-1070.
Ghomri, Latéfa (Abou-Bekr Belkadd Uuniversity - Tlemcen), Sari, Zaki (Abou-Bekr Belkadd Uuniversity - Tlemcen), Guezzen, Amine Hakim (Abou-Bekr Belkadd Uuniversity - Tlemcen), Sari, Tewfik (Univ. Haute Alsace Mulhouse)
- 15:00-16:30 Th-B.14
- A Study of Capacity Planning for Integrated Circuit Packaging Plants*, pp. 1071-1076.
Chen, James C. (Chung-Yuan Christian Univ.), Hsu, Mei-Fang (ProMOS Tech. Inc.), Sun, Cheng-Ju (Chung-Yuan Christian Univ.)
- 15:00-16:30 Th-B.15
- A Mathematical Programming Model for Safe T-Time Petri Nets*, pp. 1077-1082.
Bourdeaud'huy, Thomas (LAGIS - Ec. Centrale de Lille)
- 15:00-16:30 Th-B.16
- Production Optimization of Thin-Oil Rims: Evaluation of a Stochastic Steepest-Ascent Approach*, pp. 1083-1088.
Ibragimov, Ildar (Inst. of Control Sciences of the Russian Acad. of Science), Markovinovic, Renato (International Res. Inst. of Stavanger (IRIS)), Ermolaev, Alexander (Gubkin Russian State Univ. of Oil and Gas), Naevdal, Geir (International Res. Inst. of Stavanger)
- 15:00-16:30 Th-B.17
- Lot Sizing with Delivery and Earliness Penalties Problem: The Multi Stage Case (I)*, pp. 1089-1094.
Grunder, Olivier (Univ. of Tech. of Belfort-Montbéliard (SeT/UTBM)), Wang, Deyun (Univ. of Tech. of Belfort-Montbéliard), Elmoudni, Abdellah Elmoudni (Lab. of systems and Transport SeT)
- 15:00-16:30 Th-B.18
- Mathematical Models and Software Tools to Estimate Standard System Processes (I)*, pp. 1095-1100.
Kostogryzov, Andrey (RIAMC), Grigoriev, Leonid (Gubkin State Univ. of Oil and Gas), Nistratov, Georgy (Res. Inst. of Applied Mathematics and Certification)
- 15:00-16:30 Th-B.19
- Assessing the Value of RFID in Pharmaceutical Production Scheduling (I)*, pp. 1101-1106.
Pacciarelli, Dario (Univ. Roma Tre), D'Ariano, Andrea (Univ. Roma Tre)
- 15:00-16:30 Th-B.20
- Multi-Agent Reinforcement Learning for Adaptive Scheduling: Application to Multi-Site Company*, pp. 1107-1112.
Aissani, Nassima (Univ. of Oran), Trentesaux, Damien (Univ. of Valenciennes), Beldjilali, Bouziane (Univ. of Oran)
- 15:00-16:30 Th-B.21
- Production and Changeover Control Policies of Failure Prone Buffered Flow-Shops*, pp. 1113-1118.
Hajji, Adnene (École Pol. de Montréal), Gharbi, Ali (École de Tech. Supérieure), Kenné, Jean-Pierre (École de Tech. Supérieure)
- 15:00-16:30 Th-B.22
- The Mobile Mapping Van Problem: A Matheuristic for Capacitated Arc Routing with Soft Time Windows and Depot Selection (I)*, pp. 1119-1124.
Vansteenwegen, Pieter (Katholieke Univ. Leuven), Souffriau, Wouter (KaHo Sint-Lieven Gent), Sörensen, Kenneth (Katholieke Univ. Leuven)
- 15:00-16:30 Th-B.23
- Optimization of Machining Modes for Multi-Head Machines under Group Replacement of Tools (I)*, pp. 1125-1130.
Levin, Genrikh (National Acad. of Sciences), Rozin, Boris (United Inst. of Informatics Problems)
- 15:00-16:30 Th-B.24
- Understanding Supply Chain Complexity with Performance Measurement*, pp. 1131-1136.
Cagliano, Anna Corinna (Pol. di Torino), Carlin, Antonio (Pol. di Torino), Rafele, Carlo (Pol. di Torino)
- 15:00-16:30 Th-B.25
- Local Search of Orthogonal Packings: Use of Precise Solutions of Problem (0-1)-Knapsack*, pp. 1137-1141.
Valeev, Ruslan (Ufa State Aviation Tech. Univ.), Valeeva, Aida (Ufa State Aviation Tech. Univ.), Filippova, Anna (Ufa State Aviation Tech. Univ.)
- 15:00-16:30 Th-B.26
- Minimizing Cycle Time in the Manufacturing System Based on the Flow of Various Jobs (I)*, pp. 1142-1147.
Smutnicki, Czeslaw Adam (Wroclaw Univ. of Tech.)
- 15:00-16:30 Th-B.27
- Optimising Machine Selection Rules for Sequence Dependent Setups with an Application to Cartonng*, pp. 1148-1153.
Van der Krogt, Roman (Univ. Coll. Cork), Little, James (Univ. Coll. Cork)
- 15:00-16:30 Th-B.28
- Telematics Application to Optimize Operation Process of Municipal Heat and Power Plant*, pp. 1154-1159.
Paj_k, MichaB; (Radom Univ. of Tech.), Mu_ilewski, A;ukasz (Univ. of Tech. and Life Science), Woropay, Maciej (Univ. of Tech.)

and Life Science), Smalko, Zbigniew (Air Force Inst. of Tech. in Warsaw)	
15:00-16:30	Th-B.29
<i>A Multi-Cave Visualization System for Digital Manufacturing</i> , pp. 1160-1165. Duarte Filho, Nelson (Univ. Federal do Rio Grande do Sol), Botelho, Silvia (Univ. Federal do Rio Grande do Sol), Carvalho, Jonata (Univ. Federal do Rio Grande do Sol), Marcos, Pedro (Univ. Federal do Rio Grande do Sol), Maffei, Renan (Univ. Federal do Rio Grande do Sol), Remor Oliveira, Rodrigo (Univ. Federal do Rio Grande do Sol), Oliveira, Rodrigo (Univ. Federal do Rio Grande do Sol), Hax, Vinicius (Univ. Federal do Rio Grande do Sol)	
15:00-16:30	Th-B.30
<i>A Robust Fuzzy Scheduling Strategy for Generalized Switched Server Systems</i> , pp. 1166-1171. Wang, Xingxuan (Fudan Univ.)	
15:00-16:30	Th-B.31
<i>Measuring Flexibility in Field-Service Using Simulation (I)</i> , pp. 1172-1176. Rapaccini, Mario (Univ. degli Studi di Firenze), Visintin, Filippo (Univ. degli Studi di Firenze)	
15:00-16:30	Th-B.32
<i>How Deals with Discrete Data for the Reduction of Simulation Models Using Neural Network</i> , pp. 1177-1182. Thomas, Philippe (Nancy Univ.), Thomas, André (Nancy Univ.)	
15:00-16:30	Th-B.33
<i>Manufacturing Shop Floor Agility Using Multi-Agent Technology</i> , pp. 1183-1188. Floorian, Dan (Transilvania Univ. of Brasov), Ryvkin, Sergey (V.A. Trapeznikov Inst. of Control Sciences of the RAS), Moldoveanu, Florin (Transilvania Univ. of Brasov), Cernat, Mihai (Transilvania Univ. of Brasov)	
15:00-16:30	Th-B.34
<i>Scheduling of Transmission Order for Systems with Shared Communication Medium</i> , pp. 1189-1194. Guo, Yuqian (Central South Univ.), Wang, Youyi (Nanyang Tech. Univ.), Xie, Lihua (Nanyang Tech. Univ.), Zhang, Huanshui (Shandong Univ.)	
15:00-16:30	Th-B.35
<i>A Reduced-Complexity Algorithm for Two-Job Shop Scheduling Problems with Availability Constraints</i> , pp. 1195-1200. Aggoune, Riad (Public Res. Centre Henri Tudor), Mati, Yazid (Al-Qassim Univ.), Dauzère-Pérçs, Stéphane (Ec. des Mines de Saint-Etienne)	
15:00-16:30	Th-B.36
<i>Supply Management under the Limitation on Production Rates</i> , pp. 1201-1205. Awasthi, Anjali (Concordia Univ.), Chauhan, Satyaveer (Concordia Univ.), Proth, Jean-Marie (INRIA)	
15:00-16:30	Th-B.37
<i>System of Simulation and Control with Mobile Sources on the MATLAB</i> , pp. 1206-1209. Butkovskiy, Anatoliy Grigorjevich (Inst. of Control Sciences), Kubyshev, Victor Alekseevich (Inst. of Control Sciences), Suhoverov, Victor Stepanovich (Inst. of Control Sciences)	
15:00-16:30	Th-B.38
<i>Optimisation of Machining Lines Composed of Unit-Built Machines</i> , pp. 1210-1215. Dolgui, Alexandre (Ec. des Mines de Saint Etienne), Guschinskaya, Olga (Ec. des Mines de Saint Etienne), Guschinsky, Nikolai (United Inst. of Informatics Problems of the Nationalacademy), Levin, Genrikh (National Acad. of Sciences)	

Th-C1	Large Conference Hall
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Facility Layout (Invited Session)	
Chair: Montreuil, Benoit	Faculté des sciences de l'administration, Univ. Laval
Co-Chair: Tzur, Michal	Tel Aviv Univ.
16:30-16:54	Th-C1.1
<i>An Adapted Genetic Algorithm to Solve Generalized Cell Formation. (I)</i> , pp. 1216-1221. Vin, Emmanuelle (Univ. Libre de Bruxelles), Francq, Pascal (Univ. Libre de Bruxelles), Delchambre, Alain (Univ. Libre de Bruxelles)	
16:54-17:18	Th-C1.2
<i>Layout of Facilities Involving Arbitrary-Shaped Departments (I)</i> , pp. 1222-1227. Sarin, Subhash (Virginia Tech.), Wang, Yuqiang (United Airlines), Wang, Lixin (Virginia Tech.)	
17:18-17:42	Th-C1.3
<i>Evolutionary Approaches to the Linear Machine Layout Problem</i> , pp. 1228-1233. Mohagheghi, Salman (US Corp. Res. Center), Georgoulas, George (Tech. Educational Inst. of Epirus), Stylios, Chrysostomos (Tech. Educational Inst. of Epirus), Groumpos, Peter (Univ. of Patras)	
17:42-18:06	Th-C1.4
<i>Hybrid Method to Solve a Facility Layout Problem: Genetic Algorithm - Particle Swarm Optimization (I)</i> , pp. 1234-1238. Yalaoui, Naim (Univ. of Tech. of Troyes), Amodeo, Lionel (Univ. of Tech. of Troyes), Mahdi, Halim (Caillau Company), Yalaoui, Farouk (Univ. of Tech. of Troyes)	
18:06-18:30	Th-C1.5
<i>Line-Side Buffer Assignment in General Assembly Line Systems with Material Handling (I)</i> , pp. 1239-1244. Yan, Chao-Bo (Tsinghua Univ.), Zhao, Qianchuan (Tsinghua Univ.), Huang, Ningjian (General Motors Corp.), Xiao, Guoxian (General Motors Corp.), Li, Jingshan (Univ. of Kentucky)	

Th-C2	Small Conference Hall
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Scheduling in Manufacturing – III (Invited Session)	
Chair: T'kindt, Vincent	Univ. François Rabelais Tours
Co-Chair: Lazarev, Alexander	Inst. of Control Sciences, Russian Acad. of Sciences
16:30-16:54	Th-C2.1
<i>Scheduling Jobs with Equal Processing Times (I)</i> , pp. 1245-1250. Werner, Frank (Otto-von-Guericke-Univ. Magdeburg), Kravchenko, Svetlana (Acad. of Sciences of Belarus)	
16:54-17:18	Th-C2.2
<i>Functional Decompositions for a Production and Distribution System (I)</i> , pp. 1251-1256. Forma, Iris (Tel-Aviv Univ.), Raviv, Tal (Tel Aviv Univ.), Tzur, Michal (Tel Aviv Univ.)	

17:18-17:42	Th-C2.3
<i>Scheduling Parallel Production Lines with Energy Costs (I)</i> , pp. 1257-1262.	
Hadf, Alain (Univ. de Toulouse, Inst. Supérieur de l'Aéronautique), Artigues, Christian (LAAS CNRS)	
17:42-18:06	Th-C2.4
<i>Optimal Loading and Unloading Policy in Cross-Docking Platform (I)</i> , pp. 1263-1268.	
Maknoon, Mohammad Yousef (Ec. Pol. Montreal), Baptiste, Pierre (Ec. Pol. Montreal), Kone, Pumar (Univ. de Toulouse)	
18:06-18:30	Th-C2.5
<i>An Exact Method for the Best Case in a Group Sequence: Application to a General Shop Problem (I)</i> , pp. 1269-1274.	
Pinot, Guillaume (Univ. of Nantes), Mebarki, Nasser (IUT de Nantes)	

Th-C4	Reading Hall
Flexible Contracting, Negotiations and E-Solutions in Supply Chains (Invited Session)	

Chair: Sandkuhl, Kurt	School of Engineering at Jönköping Univ.
Co-Chair: Reggelin, Tobias Max	Fraunhofer Inst. for Factory Operation and Automation IFF Magdeburg
16:30-16:54	Th-C4.1
<i>An Approach for Flexible Customer-Supplier Relationships with Fixed Delivery Contracts and Quota Agreements (I)</i> , pp. 1275-1280.	
Rust, Tobias (Heinz Nixdorf Inst. Univ. of Paderborn), Dangelmaier, Wilhelm (Heinz Nixdorf Inst. Univ. of Paderborn), Brüggemann, Daniel (Heinz Nixdorf Inst. Univ. of Paderborn), Pater, Jan-Patrick (Heinz Nixdorf Inst. Univ. of Paderborn)	
16:54-17:18	Th-C4.2
<i>Forecast Sharing, Whithin a Two Echelon Supply Chain</i> , pp. 1281-1286.	
Taratynava, Natallia (Ec. Nationale Supérieure des Mines de Saint-Etienne), Boucher, Xavier (Ec. Nationale Supérieure des Mines de Saint Etienne)	
17:18-17:42	Th-C4.3
<i>Semantic SOA 4 SOA Supply Networks (I)</i> , pp. 1287-1292.	
Sheremetov, Leonid (St.Petersburg Inst. for Informatics and Automation of the RA), Sanchez-Sanchez, Christian (CINVESTAV-IPN)	
17:42-18:06	Th-C4.4
<i>Adapting an Agent-Based Negotiation Protocol for a Collaborative Network of CBM Service Providers (I)</i> , pp. 1293-1298.	
Tucci, Mario (Florence Univ.), Borgia, Orlando (Florence Univ.), Rapaccini, Mario (Univ. degli Studi di Firenze), De Carlo, Filippo (Florence Univ.)	
18:06-18:30	Th-C4.5
<i>From Supply Chains to Supply Networks: The Beer Game Evolution</i> , pp. 1299-1304.	
Spagnoletti, Paolo (LUISS Guido Carli Univ.), D'Atri, Alessandro (LUISS Guido Carli Univ.)	

Th-C5	Auditorium 1
Advanced Methods and Techniques for Product-Service Engineering and Management (Invited Session)	

Chair: Cavaliere, Sergio	Univ. of Bergamo
Co-Chair: Taisch, Marco	Pol. di Milano
16:30-16:54	Th-C5.1
<i>Optimizing Product Support (spare Parts Procurement) Strategy by Considering System Operating Environment – a Case Study (I)</i> , pp. 1305-1310.	
Ghodrat, Behzad (Univ. of Toronto), Banjevic, Dragan (Univ. of Toronto), Jardine, Andrew K. S. (Univ. of Toronto)	
16:54-17:18	Th-C5.2
<i>Towards Measuring the Impact of Information Availability on Maintenance Decisions (I)</i> , pp. 1311-1316.	
Srinivasan, Rengarajan (Univ. of Cambridge), Parlikad, Ajith Kumar (Univ. of Cambridge), Ouertani, Zied (Univ. of Cambridge)	
17:18-17:42	Th-C5.3
<i>Decision Support System Using Risk Assessment for Life-Cycle Management of Industrial Plants (I)</i> , pp. 1317-1322.	
Marques, Maria (UNINOVA), Neves-Silva, Rui (FCT-UNL)	
17:42-18:06	Th-C5.4
<i>A Logistic Service Provider Reference Model (I)</i> , pp. 1323-1328.	
Gerosa, Marco (Pol. di Milano), Taisch, Marco (Pol. di Milano)	
18:06-18:30	Th-C5.5
<i>Product-Service Engineering: State of the Art and Future Directions (I)</i> , pp. 1329-1334.	
Pezzotta, Giuditta (Univ. of Bergamo), Cavaliere, Sergio (Univ. of Bergamo), Gaiardelli, Paolo (Univ. of Bergamo)	

Th-C6	Auditorium 2
Requirements, Techniques and Opportunities for Engineering and Verification of Enterprise Information Systems (Invited Session)	

Chair: Chapurlat, Vincent	Ec. des Mines d'Alès
Co-Chair: Li, Qing	Tsinghua Univ.
16:30-16:54	Th-C6.1
<i>A Verification Approach Applied for Analyzing Collaborative Processes: The Anticipative Effects-Driven Approach (I)</i> , pp. 1335-1340.	
Daclin, Nicolas (Ec. des Mines d'Alès), Chapurlat, Vincent (Ec. des Mines d'Alès), Benaben, Frederick (Ec. des Mines d'Albi-Carmaux)	
16:54-17:18	Th-C6.2
<i>A Notation to Measure and Improve Efficiency with Regards to Integration, Validation and Verification of Systems - Integration Verification Validation Assessment Notation (IV,AN) (I)</i> , pp. 1341-1346.	
Gouyon, David (Nancy Univ.), Chaigneau, Stéphane (DGA), Quiot, Jean-Marc (Renault), Veaux, Nicolas (Intertechnique-Zodiac), Chapurlat, Vincent (Ec. des Mines d'Alès)	
17:18-17:42	Th-C6.3
<i>A Framework for Constraint-Based Modelling and Analysis of Organisations (I)</i> , pp. 1347-1352.	
Popova, Viara (De Montfort Univ.), Sharpanskykh, Alexei (VU Univ. Amsterdam)	

17:42-18:06 Th-C6.4
Progress Management in Performance-Driven Systems: Study of the 5Steps® Roadmapping, a Solution for Managing Organizational Capabilities and Their Learning Curves, pp. 1353-1358.
 Rauffet, Philippe (Ec. Centrale de Nantes), Bernard, Alain (Ec. Centrale de Nantes), da Cunha, Catherine (Ec. Centrale de Nantes), Labrousse, Michel (MNM Consulting)

18:06-18:30 Th-C6.5
Context-Aware Business Processes Modelling: Concepts, Issues and Framework, pp. 1359-1364.
 Boukadi, Khouloud (École des Mines of Saint Etienne), Chaabane, Amin (École de Tech. supérieure)

Th-C7 Auditorium 3
Discrete Event Systems: Modeling, Performance Evaluation and Supervisory Control – II (Invited Session)

Chair: Faure, Jean-Marc ENS Cachan
 Co-Chair: Caramihai, Simona Iuliana Pol. Univ. of Bucharest

16:30-16:54 Th-C7.1
Finding the Bounds of Response Time of Networked Automation Systems by Iterative Proofs (I), pp. 1365-1370.
 Ruel, Silvain (ENS de Cachan), de Smet, Olivier (Lurpa - ENS de Cachan), Faure, Jean-Marc (ENS Cachan)

16:54-17:18 Th-C7.2
Temporal Moore Machines (I), pp. 1371-1376.
 Giambiasi, Norbert (Univ. Paul Cézanne, Aix-Marseille III)

17:18-17:42 Th-C7.3
Modelling Systems with Periodic Routing Functions in Dioid (min, +) (I), pp. 1377-1382.
 Boutin, Olivier (École Centrale de Nantes), Cottenceau, Bertrand (Univ. of Angers, France), L'Anton, Anne (IUT de Nantes), Loiseau, Jean-Jacques (Inst. de Recherche en Communication et en Cybernétique)

17:42-18:06 Th-C7.4
A Dual Approach for Modelling Urban Traffic (I), pp. 1383-1388.
 Udrea, Andreea (Pol. Univ. of Bucharest), Voinescu, Monica (Pol. Univ. of Bucharest), Caramihai, Simona Iuliana (Pol. Univ. of Bucharest), Lupu, Ciprian (Pol. Univ. of Bucharest)

18:06-18:30 Th-C7.5
An FDI Method for Manufacturing Systems Based on an Identified Model (I), pp. 1389-1394.
 Roth, Matthias (Tech. Univ. Kaiserslautern), Lesage, Jean-Jacques (ENS de Cachan), Litz, Lothar (Univ. of Kaiserslautern)

Th-C8 Room 307
Advanced Software Engineering in Industrial Automation – IV (Invited Session)

Chair: Vyatkin, Valeriy Univ. of Auckland
 Co-Chair: Thramboulidis, Kleanthis Univ. of Patras

16:30-16:54 Th-C8.1
A New Tool-Kit for Designing Complex Material Handling Systems Using IEC61499 Function Blocks (I), pp. 1395-1400.
 Shaw, Gareth Darcy (Univ. of Auckland), Yoong, Li Hsien (Univ. of Auckland), Roop, Partha S (Univ. of Auckland), Salcic, Zoran (Univ. of Auckland)

16:54-17:18 Th-C8.2
Costs of Using Untyped Programming Languages – an Empirical Study (I), pp. 1401-1405.
 Hanenberg, Stefan (Univ. of Duisburg-Essen)

17:18-17:42 Th-C8.3
Towards Dynamic Task Scheduling and Reconfiguration Using an Aspect Oriented Approach Applied on Real-Time Concerns of Industrial Systems (I), pp. 1406-1411.
 Binotto, Alecio (Federal Univ. of Rio Grande do Sol), Freitas, Edison Pignaton (UFRGS), Pereira, Carlos Eduardo (Federal Univ. of Rio Grande do Sol), Larsson, Tony (Halmstad Univ.)

17:42-18:06 Th-C8.4
A Design Pattern for Model Based Software Development for Automatic Machinery (I), pp. 1412-1417.
 Fantuzzi, Cesare (Univ. of Modena and Reggio Emilia), Bonfe, Marcello (Univ. di Ferrara), Secchi, Cristian (Univ. of Modena and Reggio Emilia)

18:06-18:30 Th-C8.5
Alternative Models of Synthesized Programs for Executing Condition System Controllers (I), pp. 1418-1423.
 Ashley, Jeffrey (Univ. of Kentucky), Holloway, Lawrence E. (Univ. of Kentucky)

Fr-KN1 Large Conference Hall
Keynote Addresses – IIIa (Plenary Session)

10:00-10:50 Fr-KN1.1
Cognitive Technologies in Adaptive Models of Complex Plants, pp. 1424-1435.
 Kuleshov, Alexander (Kharkevich Inst. for Information Transmission Probl. of the RAS), Bernstein, Alexander (Inst. for Systems Analysis of the RAS)

10:50-11:40 Fr-KN1.2
Prerequisites and Development Lines of Control Systems for UES of Russia, pp. 1436-1443.
 Voropai, Nikolai I (Energy Systems Inst.), Korolev, M.L. (Joint Stock Company "Inst. of Electric Power Systems"), Novitsky, D.A. (Joint Stock Company "Inst. of Electric Power Systems"), Vassilyev, Stanislav (Inst. of Control Sciences, Russian Acad. of Sciences), Yadykin, Igor (Inst. of Control Sciences, Russian Acad. of Sciences)

Fr-KN2 Large Conference Hall
Keynote Addresses – IIIb (Plenary Session)

12:00-12:50 Fr-KN2.1
Self-Organizing Logistics Systems, pp. 1444-1451.
 Bartholdi, III, John J. (Georgia Inst. of Tech. Atlanta)

12:50-13:40 Fr-KN2.2

Stochastic Dynamic Pricing Models of Monopoly Systems, pp. 1452-1463.
 Dolgui, Alexandre (Ec. des Mines de Saint Etienne), Proth, Jean-Marie (INRIA)

Fr-A1	Large Conference Hall
Production System Design under Uncertainties (Invited Session)	
Chair: Pierreval, Henri	IFMA/LIMOS
Co-Chair: Yalaoui, Farouk	Univ. of Tech. of Troyes
14:30-14:54	Fr-A1.1
<i>A Generic Off-Line Approach for Dealing with Uncertainty in Production Systems Optimisation (I)</i> , pp. 1464-1469. Aubry, Alexis (Nancy-Univ.), Jacomino, Mireille (Grenoble INP), Rossi, André (Univ. de Bretagne-Sud)	
14:54-15:18	Fr-A1.2
<i>The Hedging Zone Policy for Real-Time Scheduling of Sequence-Dependent Setups (I)</i> , pp. 1470-1474. Tubilla, Fernando (Massachusetts Inst. of Tech.), Gershwin, Stanley (Massachusetts Inst. of Tech.)	
15:18-15:42	Fr-A1.3
<i>Performance Analysis of Make-To-Order Manufacturing System with Inspection Stations (I)</i> , pp. 1475-1480. Korytkowski, Przemyslaw (West Pomeranian Univ. of Tech. in Szczecin), Zaikin, Oleg (West Pomeranian Univ. of Tech. in Szczecin), Wisniewski, Tomasz (West Pomeranian Univ. of Tech. in Szczecin)	
15:42-16:06	Fr-A1.4
<i>Facility Location Models with Multiple Servers under Stable Regions (I)</i> , pp. 1481-1486. Nakade, Koichi (Nagoya Inst. of Tech.), Shiraki, Toru (Nagoya Inst. of Tech.)	
16:06-16:30	Fr-A1.5
<i>Simulation Optimization in Uncertain Environments: An Evolutionary Approach (I)</i> , pp. 1487-1492. Baccouche, Ahlem (Univ. of Tunis, ESSTT), Pierreval, Henri (IFMA/LIMOS), Huyet, Anne-Lise (IFMA/LIMOS)	
Fr-A2	Small Conference Hall
Scheduling in Manufacturing – IV (Invited Session)	
Chair: Werner, Frank	Otto-von-Guericke-Univ. Magdeburg
Co-Chair: Lazarev, Alexander	Inst. of Control Sciences, Russian Acad. of Sciences
14:30-14:54	Fr-A2.1
<i>On Average Number of Iterations of Some Algorithms for Solving the Set Packing Problem (I)</i> , pp. 1493-1496. Kolokolov, Alexander (Omsk Branch of Sobolev Inst. of Mathematics), Zaozerskaya, Lidia (Omsk Branch of Sobolev Inst. of Mathematics)	
14:54-15:18	Fr-A2.2
<i>On Scheduling Malleable Jobs to Minimise the Total Weighted Completion Time (I)</i> , pp. 1497-1499. Sadykov, Ruslan (Inst. de Mathématique de Bordeaux)	
15:18-15:42	Fr-A2.3
<i>Pertial Job-Order for Solving the Two-Machine Flow-Shop Minimum-Length Problem with Uncertain Processing Times (I)</i> , pp. 1500-1505. Matsveichuk, Natalia (Acad. of Sciences of Belarus), Sotskov, Yuri (Acad. of Sciences of Belarus), Werner, Frank (Otto-von-Guericke-Univ. Magdeburg)	
15:42-16:06	Fr-A2.4
<i>Near Optimal and Optimal Solutions for an Integrated Employee Timetabling and Production Scheduling Problem (I)</i> , pp. 1506-1511. Guyon, Olivier (UCO, IMA, LISA), Lemaire, Pierre (Ecole des Mines de Nantes), Pinson, Eric (UCO, IMA, LISA), Rivreau, David (UCO, IMA, LISA)	
16:06-16:30	Fr-A2.5
<i>Lower Bounds and Flat Graphs of Precedence Relations for the Resource-Constrained Project Scheduling Problem (I)</i> , pp. 1512-1515. Lazarev, Alexander (Inst. of Control Sciences, Russian Acad. of Sciences), Gafarov, Evgeny R. (Kotek LLC)	
Fr-A3	Meeting Hall
Heuristic and Metaheuristic Approaches (Regular Session)	
Chair: Delorme, Xavier	Ec. des Mines de Saint Etienne
Co-Chair: Kochetov, Yuri	Sobolev Inst. of Mathematics
14:30-14:54	Fr-A3.1
<i>A Hybrid Memetic Algorithm for the Competitive P-Median Problem (I)</i> , pp. 1516-1520. Kochetov, Yuri (Sobolev Inst. of Mathematics), Plyasunov, Alexandr (Sobolev Inst. of Mathematics), Kochetova, Nina (Sobolev Inst. of Mathematics), Alekseeva, Ekaterina (Sobolev Inst. of Mathematics)	
14:54-15:18	Fr-A3.2
<i>Genetic Algorithm for Multicriteria Optimization of a Multi Pickup and Delivery Problem with Time Windows</i> , pp. 1521-1526. Harbaoui Dridi, Imen (ENIT / Ec. LILLE), Kammarti, Ryan (ENIT / Ec. LILLE), Ksouri, Mekki (Tunisia National School of Engineers), Borne, Pierre (ENIT / Ec. LILLE)	
15:18-15:42	Fr-A3.3
<i>Heuristics for Two-Dimensional Loading Capacitated Vehicle Routing Problem with Time Windows</i> , pp. 1527-1532. Khebbache, Selma (Univ. of Tech. of Troyes), Yalaoui, Alice (Univ. of Tech. of Troyes), Prins, Christian (Univ. of Tech. of Troyes), Reghioui, Mohamed (Univ. of Tech. of Troyes)	
15:42-16:06	Fr-A3.4
<i>An Ant Colony Optimization Algorithm for a Vehicle Routing Problem with Heterogeneous Fleet, Mixed Backhauls, and Time Windows.</i> , pp. 1533-1538. Belmecheri, Farah (Univ. of Tech. of Troyes), Prins, Christian (Univ. of Tech. of Troyes), Yalaoui, Farouk (Univ. of Tech. of Troyes), Amodeo, Lionel (Univ. of Tech. of Troyes)	
16:06-16:30	Fr-A3.5
<i>Comparison of Deterministic Heuristics and Simulated Annealing for the Rotational Placement Problem Over Containers with Fixed Dimensions</i> , pp. 1539-1544. Tsuzuki, Marcos de Sales Guerra (Univ. of Sao Paulo), Martins, Thiago de Castro (Univ. of Sao Paulo)	

Fr-A4	Reading Hall
Market Responsive Supply Network (Regular Session)	
Chair: Hennet, Jean-Claude	LSIS Information and Systems Science Lab.
Co-Chair: Ould Louly, Aly Mohamed	King Saud Univ.
14:30-14:54	Fr-A4.1
<i>A Cooperative Approach to Supply Network Design (I)</i> , pp. 1545-1550.	
Hennet, Jean-Claude (LSIS Information and Systems Science Lab.), Mahjoub, Sonia (ISG de Tunis)	
14:54-15:18	Fr-A4.2
<i>Inventory Policies for a Batch-Replenishment Supplier with Alternative Delivery Lead-Time Choices</i> , pp. 1551-1555.	
Wang, Haifeng (Tsinghua Univ.), Yan, Houmin (The Chinese Univ. of Hong Kong)	
15:18-15:42	Fr-A4.3
<i>Consideration of the Undershoot in an (r, Q) Inventory Model for Perishables</i> , pp. 1556-1561.	
Kouiki, Chaaben (Ec. Centrale Paris), Sahin, Evren (Ec. Centrale Paris), Jemai, Zied (Ec. Centrale Paris), Dallery, Yves (Ec. Centrale Paris)	
15:42-16:06	Fr-A4.4
<i>Smooth Priorities for Multi-Product Inventory Control</i> , pp. 1562-1567.	
Mendonça, Francisco José (Inst. Superior Técnico - Univ. Técnica de Lisboa), Bispo, Carlos (Inst. Superior Técnico - Univ. Técnica de Lisboa)	
16:06-16:30	Fr-A4.5
<i>Simulation Analysis of Less Master Production Schedule Nervousness Model</i> , pp. 1568-1573.	
Thomas, André (Nancy Univ.)	
Fr-A5	Auditorium 1
Monitoring and Predictive Maintenance (Invited Session)	
Chair: Borangiu, Theodor	Univ. Pol. of Bucharest, Faculty of Control and Computers
Co-Chair: Pereira, Carlos Eduardo	Federal Univ. of Rio Grande do Sol
14:30-14:54	Fr-A5.1
<i>An Ahp Based Model for the Selection of Decision Categories in Maintenance Systems</i> , pp. 1574-1579.	
Ierace, Stefano (Intellimech Consortium), Cavalieri, Sergio (Univ. of Bergamo)	
14:54-15:18	Fr-A5.2
<i>A Procedure for Failure Prognostic in Dynamic Systems (I)</i> , pp. 1580-1585.	
Medjaher, Kamal (FEMTO-ST Inst. UMR CNRS 6174 - UFC / ENSMM / UTBM), Gouriveau, Rafael (FEMTO-ST Inst. UMR CNRS 6174 - UFC / ENSMM / UTBM), Zerhouni, Nouredine (FEMTO-ST Inst. UMR CNRS 6174 - UFC / ENSMM / UTBM)	
15:18-15:42	Fr-A5.3
<i>Opportune Maintenance and Predictive Maintenance Decision Support (I)</i> , pp. 1586-1591.	
Thomas, Edouard (Nancy-Univ.), Levrat, Eric (Nancy-Univ.), Lung, Benoît (Nancy Univ.), Cochetoux, Pierre (Nancy-Univ.)	
15:42-16:06	Fr-A5.4
<i>Optimization of a Maintenance Strategy with Considering the Influence of the Production Plan on the Manufacturing System Degradation (I)</i> , pp. 1592-1597.	
Hajej, Zied (Univ. de Metz), Dellagi, Sofiene (Univ. de Metz), Rezg, Nidhal (Univ. de Metz)	
16:06-16:30	Fr-A5.5
<i>Computerized Maintenance Management Systems in SMEs: A Survey in Italy and Some Remarks for the Implementation of Condition Based Maintenance</i> , pp. 1598-1602.	
Fumagalli, Luca (Pol. di Milano), Macchi, Marco (Pol. di Milano), Rapaccini, Mario (Univ. degli Studi di Firenze)	
Fr-A6	Auditorium 2
Product, Service and Process Oriented Approaches (Regular Session)	
Chair: Boucher, Xavier	Ec. Nationale Supérieure des Mines de Saint Etienne
Co-Chair: Vallespir, Bruno	Univ. of Bordeaux 1
14:30-14:54	Fr-A6.1
<i>A Service Enabled Approach to Automation Management</i> , pp. 1603-1607.	
Tom, Kirkham (Loughborough Univ.), Bepperling, Axel (Schneider Electric), Colombo, Armando Walter (Schneider Electric), mcLeod, Stuart (Loughborough Univ.), Harrison, Robert (Loughborough Univ.)	
14:54-15:18	Fr-A6.2
<i>Developing Communications between a Service-Enabled Manufacturing System and a Multi-Agent System (I)</i> , pp. 1608-1613.	
Villaseñor, Vladimir (Tampere Univ. of Tech.), Vidales, Axel (Tampere Univ. of Tech.), Martinez Lastra, Jose Luis (Tampere Univ. of Tech.)	
15:18-15:42	Fr-A6.3
<i>Towards a Resource-Driven Modelling Paradigm in Collaborative and Service-Oriented Enterprises</i> , pp. 1614-1619.	
Sliman, Layth (INSA - Lyon), Badr, Youakim (INSA - Lyon), Biennier, Frederique (INSA - Lyon), Nakao, Zensho (Univ. of the Ryukyus)	
15:42-16:06	Fr-A6.4
<i>Enterprise Modelling Techniques to Help Manufacturing Firms Develop Product Service Activities (I)</i> , pp. 1620-1625.	
Alix, Thecle (Univ. of Bordeaux 1), Touzi, Wael (Univ. of Bordeaux 1), Vallespir, Bruno (Univ. of Bordeaux 1)	
16:06-16:30	Fr-A6.5
<i>Operational Competence Management - Comparison of Industrial Frameworks</i> , pp. 1626-1631.	
Grabot, Bernard (ENIT France), Houe, Raymond (ENIT France)	
Fr-A7	Auditorium 3
Discrete Event Systems (Regular Session)	
Chair: Rutten, Eric	INRIA Rhône alpes
Co-Chair: Alla, Hassane	Univ. Joseph Fourier
14:30-14:54	Fr-A7.1

- Supervisory Control of Adaptive and Reconfigurable Computing Systems (I)*, pp. 1632-1637.
Rutten, Eric (INRIA Rhône alpes)
14:54-15:18 Fr-A7.2
- Stochastic Elements in Transportation System Simulation - Unnecessary? (I)*, pp. 1638-1643.
Saranen, Juha Petteri (Lappeenranta Univ. of Tech.)
15:18-15:42 Fr-A7.3
- A "Flows Consistency" Model for Message Ordering in Collaborative Distributed Systems (I)*, pp. 1644-1649.
Dobrescu, Radu (Pol. Univ. of Bucharest), Dobrescu, Matei (Pol. Univ. of Bucharest)
15:42-16:06 Fr-A7.4
- Advanced Methods in Hierarchical Discrete Systems Modeling*, pp. 1650-1655.
Minca, Eugenia (Univ. Valahia din Targoviste), Filip, Florin Gheorghe (Romanian Acad.), Zemouri, Ryad (Conservatoire National des Arts et Métiers), Dragomir, Florin (Univ. Valahia din Targoviste), Dragomir, Otilia (Univ. Valahia din Targoviste)
16:06-16:30 Fr-A7.5
- Implementation of a SCADA System for Flexible Manufacturing Systems Using Object-Oriented Petri Nets Model*, pp. 1656-1661.
Ribeiro, Alexandre da Silva (Univ. Federal da Bahia), Lima II, Eduardo Jose (UFMG), Lepikson, Herman (Univ.)

Fr-A8 Room 307

Probabilistic & Statistical Models in Industrial Plant Control – III (Regular Session)

- Chair: Feyzioglu, Orhan Galatasaray Univ.
Co-Chair: Khmel'nitsky, Evgeni Tel Aviv Univ.
- 14:30-14:54 Fr-A8.1
- An New Approach to Optimum Component Testing Problem Incorporating Expected System Lifetime*, pp. 1662-1667.
Yamangil, Emre (Galatasaray Univ.), Altinel, I. Kuban (Bogazici Univ.), Feyzioglu, Orhan (Galatasaray Univ.), Ozekici, Suleyman (Koc Univ.)
- 14:54-15:18 Fr-A8.2
- Rule Extraction by Support Vector Machine: A Case Study of Type II Diabetes Mellitus Diagnosis*, pp. 1668-1672.
Yang, Chien-hsin (Overseas Chinese Inst. of Tech.), Yeh, Tsu-Ming (Da-Yeh Univ.), Liao, Mou-Yuan (Yuanpei Univ.)
- 15:18-15:42 Fr-A8.3
- A Stochastic Inventory Control Problem with Reputation-Dependent Demand*, pp. 1673-1677.
Khmel'nitsky, Evgeni (Tel Aviv Univ.), Singer, Gonen (Afeca Coll.)
- 15:42-16:06 Fr-A8.4
- Using Adaptive Kalman Filtering by Bitrate Control Module of Sound Signal Compression in Real-Time Systems*, pp. 1678-1681.
Khodyrev, Dmitry (SPIRIT Corp.), Antonova, Galina (Inst. of Control Sciences)
- 16:06-16:30 Fr-A8.5
- Operational Availability Assessment for Improving the Maintenance of the Complex Systems*, pp. 1682-1687.
Djeridi, Radhouane (Eurocopter (EADS company)), Cauvin, Aline (Lab. des sciences de l'information et des systèmes)

Fr-B Lobby Hall

Industrial Engineering (Poster Session)

- Chair: Thomas, André Nancy Univ.
Co-Chair: Trentesaux, Damien Univ. of Valenciennes
- 16:30-18:00 Fr-B.1
- Effect of Preventive Maintenance on the Economic Design of X-Bar Control Chart*, pp. 1688-1691.
Chang, Ching-Pou (Hsiuping Inst. of Tech.), Chin, Hsiang (Da-Yeh Univ. Taiwan), Hsiao, Yuan-Du (Senior Industrial Vocational High School of National Changhua Un), Yu, Fong-Jung (Da-Yeh Univ. Taiwan)
- 16:30-18:00 Fr-B.2
- Algorithms for Dynamic Switching of Collaborative Human-Robot System in Target Recognition Tasks*, pp. 1692-1697.
Tkach, Itshak (Ben-Gurion Univ.), Edan, Yael (Ben-Gurion Univ.)
- 16:30-18:00 Fr-B.3
- Management of Experience Knowledge in Continuous Production Processes*, pp. 1698-1703.
Brandt, Sebastian C. (RWTH Aachen Univ.), Schlüter, Marcus (aiXtrusion GmbH), Raddatz, Marcus (Fraunhofer), Jarke, Matthias (RWTH Aachen Univ.)
- 16:30-18:00 Fr-B.4
- An Economic-Statistical Design of X-Bar Control Charts Using Taguchi Loss Functions*, pp. 1704-1708.
Yu, Fong-Jung (Da-Yeh Univ. Taiwan), Chen, Hsuan-Kai (MingDao Univ.)
- 16:30-18:00 Fr-B.5
- Translation, Rotation and Scaling Invariant 2D Shape Matching Based on Filter Matching*, pp. 1709-1714.
Takase, Fabio Kawaoka (Mind Tecnologia e Conhecimento), Tsuzuki, Marcos de Sales Guerra (Univ. of Sao Paulo)
- 16:30-18:00 Fr-B.6
- A Comparative Study of Indirect and Direct Workspace Representation in Human-Robot Interaction*, pp. 1715-1720.
Farkhatdinov, Ildar (Moscow State Univ. of Tech.), Balashov, Vadim (Moscow State Univ. of Tech.), Ryu, Jee-Hwan (Korea Univ. of Tech. and Education), Poduraev, Jury (Moscow State Univ. of Tech. STANKIN)
- 16:30-18:00 Fr-B.7
- Modelling and Systemic Analysis of Models of Dynamic Systems of Shaft Machining*, pp. 1721-1726.
Szabelski, Jakub (Lublin Univ. of Tech.), Taranenko, Wiktor (Lublin Univ. of Tech.), Taranenko, Georgij (Sevastopol National Tech. Univ.), Bagimov, Igor (Sevastopol National Tech. Univ.)
- 16:30-18:00 Fr-B.8
- A Heuristic Approach for Constrained Real Time Motion Planning of a Redundant 7-DOF Mechanism for 3D Laser Scanning*, pp. 1727-1732.
Borangiu, Theodor (Univ. Pol. of Bucharest, Faculty of Control and Comp), Dogar, Anamaria (Univ. Pol. of Bucharest), Dumitrache, Alexandru (Univ. Pol. of Bucharest)
- 16:30-18:00 Fr-B.9
- Estimation of Multi-Components System's Reliability: Comparison of Two Graphical Model Approaches*, pp. 1733-1738.

- Bouillaut, Laurent (INRETS), Donat, Roland (INRETS), Neji, Abdelmoez (INRETS), Aknin, Patrice (INRETS)
16:30-18:00 Fr-B.10
Nonlinear Modelling and Control of Full-Penetration Dual Bypass Gas Metal Arc Welding of Aluminium, pp. 1739-1744.
Liu, Xiaopei (Univ. of Kentucky), Liu, Yusheng (Sichuan Univ.), Qian, Kun (Univ. of Kentucky), Zhang, Y.M. (Univ. of Kentucky)
- 16:30-18:00 Fr-B.11
Constructing an Adaptive Color Reproduction System with Color Space Reference Regions Recognition, pp. 1745-1750.
Fursov, Vladimir (Image Processing Systems Inst. of the RAS), Kazansky, Nikolay (Image Processing Systems Inst. of the RAS), Nikonorov, Artem (Samara State Aerospace Univ.)
- 16:30-18:00 Fr-B.12
Sustainable Design of Manufacturing Systems - Assessment of Current Practices in Different Parts of a Multi-National Automotive Organization, pp. 1751-1756.
Kochhar, Ashok Kumar (Aston Univ.), Bird, Malcolm (Aston Univ.)
- 16:30-18:00 Fr-B.13
Validation by Petri Net of a New Approach for the One Machine Problem with Temporal Functions of Polynomial Type, pp. 1757-1762.
Bousseau, Frédéric (Univ. of Angers), Guegnard, Frédéric (Univ. of Angers), Bourcerie, Marc (Univ. of Angers)
- 16:30-18:00 Fr-B.14
Engineering Tools for the Integration of Service-Oriented Production Systems (I), pp. 1763-1768.
Leitão, Paulo (Pol. Inst. of Bragança), Mendes, Marco (Faculty of Engineering, Univ. of Porto), Bepperling, Axel (Schneider Electric Automation GmbH), Cachapa, Daniel (Schneider Electric Automation GmbH), Colombo, Armando Walter (Schneider Electric Automation GmbH), Restivo, Francisco (Faculty of Engineering, Univ. of Porto)
- 16:30-18:00 Fr-B.15
Maintenance Management and Operational Support As Services in Reconfigurable Manufacturing Systems, pp. 1769-1774.
Ribeiro, Luis (New Univ. of Lisbon), Barata, Jose (New Univ. of Lisbon), Leitão, Paulo (Pol. Inst. of Bragança), Silverio, Nelson (New Univ. of Lisbon)
- 16:30-18:00 Fr-B.16
Combination of Heuristic and Model Based Diagnostic Methods Applied to Car Diagnosis, pp. 1775-1780.
Azarian, Armin (Siemens)
- 16:30-18:00 Fr-B.17
Assignment of Tasks to Multi Skills in Agent-Based Architecture at the Emergency Department, pp. 1781-1786.
Daknou, Amani (Ec. Centrale de Lille), Zgaya, Hayfa (Ec. Centrale de Lille), Hammadi, Slim (Ec. Centrale de Lille), Hubert, Hervé (Univ. de Lille2)
- 16:30-18:00 Fr-B.18
A Novel Information Modelling Approach for Representing Parallel Kinematic Machine Tools, pp. 1787-1792.
Vichare, Parag (Univ. of Bath), Nassehi, Aydin (Univ. of Bath), Newman, Stephen Thomas (Univ. of Bath)
- 16:30-18:00 Fr-B.19
Impact of Inbound Logistics on Design of Production System, pp. 1793-1798.
Neubert, Gilles (Business School of St. Etienne - LIESP Lab.), Bartoli, Fabrice (Renault Trucks)
- 16:30-18:00 Fr-B.20
Chilled Water System Control, Simulation, and Visualization Using Java Multi-Agent System, pp. 1799-1804.
Kadera, Petr (Czech Tech. Univ.), Tichy, Pavel (Rockwell Automation)
- 16:30-18:00 Fr-B.21
Creation Principals of Universal Modeling Environment for Simulation Application Development, pp. 1805-1810.
Vlasov, Stanislav (Russian Acad. of Sciences), Deviatkov, Vladimir (Elina-Computers Ltd.), Deviatkov, Timur (Kazan State Tech. Univ.)
- 16:30-18:00 Fr-B.22
A Unified Solution for the NPP APCS Diagnostics, pp. 1811-1816.
Masolkin, Stanislav (V.A. Trapeznikov Inst. of Control Sciences), Promyslov, Vitaly (V.A. Trapeznikov Inst. of Control Sciences)
- 16:30-18:00 Fr-B.23
Design of an Integrated Process Chain for the Production of Compressor Parts, pp. 1817-1822.
Vargas Aparicio, Algebra Veronica (Brandenburg Univ. of Tech. Cottbus), Berger, Ulrich (Brandenburg Univ. of Tech. Cottbus)
- 16:30-18:00 Fr-B.24
Computer-Integrated Control of Metallurgical Complexes Using Forecasting Simulation, pp. 1823-1828.
Vlasov, Stanislav (Russian Acad. of Sciences), Genkin, Arkady (Inst. of Control Sciences), Nikulina, Irina (Inst. of Control Sciences), Koynov, Toncho (Univ. of Chemical Tech. and Metallurgy), Shatalov, Roman (Moscow State Open Univ.), Kravtsov, Svyatoslav (State Tech. Univ. the "Moscow State Inst. of St)
- 16:30-18:00 Fr-B.25
Usage of Biological Prototypes for Kinematical Scheme Construction of Modern Robots, pp. 1829-1834.
Pupkov, Konstantin (Bauman Moscow State Tech. Univ.), Kovalchouk, Aleksandr (Bauman Moscow State Tech. Univ.), Kulakov, Boris (Bauman Moscow State Tech. Univ.)
- 16:30-18:00 Fr-B.26
The Use of Genetic Algorithms in Building's Heating Systems (I), pp. 1835-1837.
Demenkov, Nikolay (Bauman Moscow State Tech. Univ.)
- 16:30-18:00 Fr-B.27
Flatness-Based and Energy-Based Control for Distributed Parameter Robotic Systems, pp. 1838-1843.
Rigatos, Gerasimos (Industrial Systems Inst.)
- 16:30-18:00 Fr-B.28
Assisted Research of the New Mathematical Model for the Magnetorheological Damper, pp. 1844-1847.
Olaru, Serban (Univ. Pol. of Bucharest), Olaru, Adrian (Univ. Pol. of Bucharest)
- 16:30-18:00 Fr-B.29
A Conceptual Framework for Computer-Aided Ubiquitous System Engineering: Architecture and Prototype, pp. 1848-1853.
Jeong, Suho (POSTECH), Hur, Seung Min (POSTECH), Suh, Suk-Hwan (POSTECH)
- 16:30-18:00 Fr-B.30

<i>Modeling of Grouped Buildings and Their Control with Friction Dampers (I)</i> , pp. 1854-1859. Marinova, Daniela (Tech. Univ. of Sofia)	Fr-B.31
16:30-18:00	Fr-B.31
<i>Distributed Fuzzy Product Configuration Using a Multi-Agent Approach</i> , pp. 1860-1865. Ostrosi, Egon (UTBM), Fougères, Alain-Jérôme (UTBM), Ferney, Michel (UTBM), Klein, Didier (UTBM)	Fr-B.32
16:30-18:00	Fr-B.32
<i>A Framework for a Quality Assurance in Offset Printing</i> , pp. 1866-1871. Korytkowski, Przemyslaw (West Pomeranian Univ. of Tech. in Szczecin), Zaikin, Oleg (West Pomeranian Univ. of Tech. in Szczecin), Olejnik-Krugly, Agnieszka (West Pomeranian Univ. of Tech. in Szczecin)	Fr-B.33
16:30-18:00	Fr-B.33
<i>Cognitive Technologies for the Creation of CAD-System</i> , pp. 1872-1877. Volkova, Galina (MSTU)	Fr-B.34
16:30-18:00	Fr-B.34
<i>Unifying Process Design with Automation and Control Application Development - an Approach Based on Information Integration and Model-Driven Methods</i> , pp. 1878-1883. Hästbacka, David (Tampere Univ. of Tech.), Mätäsniemi, Teemu (VTT Tech. Res. Centre of Finland)	Fr-B.35
16:30-18:00	Fr-B.35
<i>...; Analog Computations and Current Problems of Automatic Control (I)</i> , pp. 1884-1885. Babayan, Robert (Inst. of Control Sciences, Russian Acad. of Sciences)	Fr-B.36
16:30-18:00	Fr-B.36
<i>Methodology for Assessing System Performance Loss within a Proactive Maintenance Framework</i> , pp. 1886-1891. Cocheteux, Pierre (Nancy Univ.), Voisin, Alexandre (Nancy Univ.), Levrat, Eric (Nancy Univ.), Lung, Benoît (Nancy Univ.)	Fr-B.37
16:30-18:00	Fr-B.37
<i>Coupling Simulation and Optimization for an Integrated Production and Maintenance Planning in Manufacturing Systems</i> , pp. 1892-1896. Bergeron, Daniel (Univ. of Quebec at Trois-Rivieres), Jamali, M. Anouar (Univ. of Quebec at Trois-Rivieres), Ait-Kadi, Daoud (Laval Univ.)	Fr-B.38
16:30-18:00	Fr-B.38
<i>On-Line Management of EoL Product Defective Condition for Optimal Disassembly Planning</i> , pp. 1897-1902. Addouche, Sid-Ali (Univ. of Paris 8), Duta, Luminita (Univ. Valahia of Targoviste), El Mhamedi, Abderrahman (Univ. of Paris 8)	Fr-B.39
16:30-18:00	Fr-B.39
<i>Integrated Modeling Management of Flexible Supply Networks</i> , pp. 1903-1908. Verzilin, Dmitry (Rus. Acad. Sci., St.Petersburg Inst. of Informatics), Maximova, Tatyana (Saint Petersburg Inst. of Trade and Ec.), Chereshev, Vladimir (Rus. Acad. Sci., Ural Department, Inst. of Ec.)	Fr-B.40
16:30-18:00	Fr-B.40
<i>Service Engineering As a Framework to Designing Hybrid Products (I)</i> , pp. 1909-1914. Gudergan, Gerhard (FIR Aachen Univ.), Stich, Volker (FIR Aachen Univ.), Frombach, Ralf (FIR Aachen Univ.), Hübbers, Marc (FIR Aachen Univ.)	Fr-B.41
16:30-18:00	Fr-B.41
<i>Dynamics of Changes in Adequacy of Management During Transition to Trajectory of Intensive Development</i> , pp. 1915-1918. Kleparskaya, Ekaterina (Inst. of Control Sciences)	

Fr-C1	Large Conference Hall
Design of Reconfigurable Manufacturing Systems (Invited Session)	
Chair: Toguyeni, Armand Co-Chair: Lamouri, Samir	Ec. Centrale de Lille SUPMECA
18:00-18:24	Fr-C1.1
<i>A Capability Model and Taxonomy for Multiple Assembly System Reconfigurations</i> , pp. 1919-1924. Smale, Daniel (Univ. of Nottingham), Ratchev, Svetan (Univ. of Nottingham)	
18:24-18:48	Fr-C1.2
<i>Analysis of Reference Pattern Based on Regenerative Cyclic Sequences (I)</i> , pp. 1925-1930. Trujillo, Jesus (VS-Agent Tech.), Pawlewski, Pawel (Poznan Univ. of Tech.), Pasek, Zbigniew (Univ. of Windsor), Fertsch, Marek (Poznan Univ. of Tech.)	
18:48-19:12	Fr-C1.3
<i>Models Based on Petri Nets for the Design of the Control Function of a Reconfigurable Manufacturing System</i> , pp. 1931-1936. Toguyeni, Armand (Ec. Centrale de Lille)	
19:12-19:36	Fr-C1.4
<i>Evaluation of Mathematical Programming Models for the Reconfiguration of Reconfigurable Manufacturing Systems</i> , pp. 1937-1942. Bourdeaud'huy, Thomas (LAGIS - Ec. Centrale de Lille), Toguyeni, Armand (Ec. Centrale de Lille)	
19:36-20:00	Fr-C1.5
<i>Optimisation of Flexibility According to an Efficiency Criterion: The Example of the Infrastructures for the New Eurofarad Industrial Site (I)</i> , pp. 1943-1948. Lelièvre, Adrien (SUPMECA), Durieux, Séverine (IFMA), Génin, Patrick (SUPMECA), Lamouri, Samir (SUPMECA)	
20:00-20:24	Fr-C1.6
<i>Modelling and Analysing of Time Constrained and Reconfigurable Manufacturing Processes</i> , pp. 1949-1954. Hicheur, Awatef (CEDRIC-CNAM), Barkaoui, Kamel (Conservatoire National des Arts et Metiers (CNAM))	

Fr-C2	Small Conference Hall
Scheduling Heuristics (Regular Session)	
Chair: Jozefczyk, Jerzy Co-Chair: Mebarki, Nasser	Wroclaw Univ. of Tech. IUT de Nantes
18:00-18:24	Fr-C2.1
<i>Solving the Response Time Variable Problem by Means of a Variable Neighbourhood Search Algorithm</i> , pp. 1955-1960.	

- Corominas, Albert (Inst. of Industrial and Control Engineering (IOC)), García-Villoria, Alberto (Inst. of Industrial and Control Engineering (IOC)), Pastor, Rafael (Inst. of Industrial and Control Engineering (IOC))
- 18:24-18:48 Fr-C2.2
Initial Populations Tests for Genetic Algorithm Flowshop Scheduling Problems Solving with a Special Blocking, pp. 1961-1966.
 Sauvey, Christophe (Paul Verlaine Univ. of Metz - France), Sauer, Nathalie (Paul Verlaine Univ. of Metz - France / INRIA Grand Est - CO)
- 18:48-19:12 Fr-C2.3
Conflict Resolution in a Supply Line: Complexity Analysis, pp. 1967-1972.
 Vanajakumari, Manoj (Texas A & M Univ.), Sriskandarajah, Chelliah (The Univ. of Texas at Dallas), Wagneur, Edouard (École Pol. de Montréal)
- 19:12-19:36 Fr-C2.4
An Agent-Based Algorithm for Personnel Scheduling and Rescheduling in Assembly Centers, pp. 1973-1978.
 Sabar, Mohamed (Univ. Laval), Montreuil, Benoit (Faculté des sciences de l'administration, Univ. Laval), Frayret, Jean-Marc (École Pol. de Montréal)
- 19:36-20:00 Fr-C2.5
A Study of Tardiness Based Measures for Benchmark Priority Dispatching Rules Used in Dynamic Job Shop, pp. 1979-1984.
 Shahzad, Muhammad Atif (Univ. of Nantes), Mebarki, Nasser (IUT de Nantes)
- 20:00-20:24 Fr-C2.6
Simulated Annealing Based Robust Algorithm for Routing-Scheduling Problem with Uncertain Execution Times, pp. 1985-1990.
 Jozefczyk, Jerzy (Wroclaw Univ. of Tech.), Markowski, Michal (WrocB;aw Univ. of Tech.)

Fr-C3 Meeting Hall
Matheuristics in Production and Logistics (Invited Session)

- Chair: Ereemeev, Anton Omsk Branch of Sobolev Inst. of Mathematics SB RAS
 Co-Chair: Maniezzo, Vittorio Univ. di Bologna
- 18:00-18:24 Fr-C3.1
A Genetic Local Search Algorithm for the Graph Partitioning Problem with Cardinality Constraints (I), pp. 1991-1996.
 Kochetov, Yuri (Sobolev Inst. of Mathematics), Plyasunov, Alexandr (Sobolev Inst. of Mathematics), Mikhailova, Anastasiya (Novosibirsk State Univ.)
- 18:24-18:48 Fr-C3.2
Two-Stage Multimedia Scheduling Problem with an Active Prefetch Model (I), pp. 1997-2002.
 Kononov, Alexander (Sobolev Inst. of Mathematics), Kononova, Polina (Sobolev Inst. of Mathematics), Hong, Jen-Shin (National Chi Nan Univ.)
- 18:48-19:12 Fr-C3.3
Lower Bounds for the 2D Strip Packing Problem: Linear and 1D Contiguous Relaxation, pp. 2003-2007.
 Mesyagutov, Marat (Ufa State Aviation Tech. Univ.), Kartak, Vadim (Ufa State Aviation Tech. Univ.), Valeev, Ruslan (Ufa State Aviation Tech. Univ.)
- 19:12-19:36 Fr-C3.4
Solving 0-1 Mixed Integer Programs with Variable Neighbourhood Decomposition Search (I), pp. 2008-2013.
 Lazic, Jasmina (Brunel Univ.), Hanafi, Said (Univ. de Valenciennes Le Mont Houy), Mladenovic, Nenad (Brunel Univ.), Urosevic, Dragan (Serbian Acad. of Sciences and Arts)
- 19:36-20:00 Fr-C3.5
Variable Neighbourhood Decomposition Search with Bounding for Multidimensional Knapsack Problem (I), pp. 2014-2018.
 Hanafi, Said (Univ. de Valenciennes Le Mont Houy), Lazic, Jasmina (Brunel Univ.), Mladenovic, Nenad (Brunel Univ.), Wilbaut, Christophe (Univ. de Valenciennes Le Mont Houy)
- 20:00-20:24 Fr-C3.6
Real World Finite Capacity Planning: A Partial Enumeration – Based Optimizer (I), pp. 2019-2024.
 Bianco, Ennio (Sogea s.r.l.), Boschetti, Marco Antonio (Univ. Bologna), Maniezzo, Vittorio (Univ. Bologna), Mingozi, Aristide (Univ. Bologna)

Fr-C4 Reading Hall
Supply Chain Performance and Risk Measurement (Invited Session)

- Chair: Babai, Mohamed Zied BEM Bordeaux Management School
 Co-Chair: Ducq, Yves Bordeaux Univ.
- 18:00-18:24 Fr-C4.1
Designing and Evaluating Sustainable Supply Chains: A Carbon Market Oriented Approach (I), pp. 2025-2030.
 Chaabane, Amin (Ec. de Tech. supérieure), Paquet, Marc (Ec. de Tech. supérieure), Ramudhin, Amar (Ec. de Tech. supérieure)
- 18:24-18:48 Fr-C4.2
Performance Improvement in Supply Chains through Better Partners' Selection (I), pp. 2031-2036.
 Zouggar, Salah (IMS-LAPS, Bordeaux Univ.), Zolghadri, Marc (Bordeaux Univ.), Girard, Philippe (Bordeaux Univ. UMR 5218 CNRS)
- 18:48-19:12 Fr-C4.3
An Approach to Improving the Logistical Performance of the Self-Service Public Transportation System (I), pp. 2037-2042.
 Cucu, Tatiana (School engineers in Genius of the Industrial Systems), Ion, Luminita (School engineers in Genius of the Industrial Systems), Ducq, Yves (Bordeaux Univ.), Boussier, Jean-Marie (Univ. La Rochelle)
- 19:12-19:36 Fr-C4.4
Enterprise Engineering versus Cyclic Re-Engineering Methods (I), pp. 2043-2048.
 Ros McDonnell, Lorenzo (Univ. Pol. de Cartagena), de la Fuente, Marivi (Univ. Pol. de Cartagena), Ortiz, Angel (Univ. Pol. de Valencia)
- 19:36-20:00 Fr-C4.5
Supply Chain Performance Measurement: Management Models, Performance Indicators and Interoperability (I), pp. 2049-2054.
 Ducq, Yves (Bordeaux Univ.), Berrah, Lamia (Savoie Univ.)
- 20:00-20:24 Fr-C4.6

Analysis of Potential Collaborations in SME Networks (I), pp. 2055-2060.
Taurino, Teresa (Pol. di Torino)

Fr-C5	Auditorium 1
Product Driven Systems (Invited Session)	
Chair: Thomas, André	Nancy Univ.
Co-Chair: Trentesaux, Damien	Univ. of Valenciennes
18:00-18:24	Fr-C5.1
<i>Open-Control: A New Concept for Integrated Product-Driven Manufacturing Control (I)</i> , pp. 2061-2066. Sallez, Yves (Univ. of Valenciennes), Berger, Thierry (Univ. of Valenciennes), Trentesaux, Damien (Univ. of Valenciennes)	
18:24-18:48	Fr-C5.2
<i>Enhanced Supply Chain Tracking Based on the EPC Network: A Bayesian Approach (I)</i> , pp. 2067-2072. Kelepouris, Thomas (Univ. of Cambridge), Harrison, Mark Geoffrey (Univ. of Cambridge), McFarlane, Duncan Campbell (Univ. of Cambridge)	
18:48-19:12	Fr-C5.3
<i>Hoist Scheduling Problem: Coupling Reactive and Predictive Approaches (I)</i> , pp. 2073-2078. Chove, Etienne (IRCCyN), Castagna, Pierre (Univ. of Nantes), Abbou, Rosa (IRCCyN)	
19:12-19:36	Fr-C5.4
<i>Decision Making in the Supply Network (I)</i> , pp. 2079-2084. Valckenaers, Paul (K.U. Leuven), Verstraete, Paul (K.U. Leuven), Saint Germain, Bart (K.U. Leuven), Van Belle, Jan (K.U. Leuven), Van Brussel, Hendrik (K.U. Leuven)	
19:36-20:00	Fr-C5.5
<i>Stigmergy: A Design Pattern for Product-Driven Systems (I)</i> , pp. 2085-2090. Pannequin, Rémi (CNRS & Nancy Univ.), Thomas, André (Nancy Univ.)	
20:00-20:24	Fr-C5.6
<i>Automatic Generation of Simulation Code Using Product Location Information (I)</i> , pp. 2091-2096. Véjar, Andrés (CRAN, CNRS UMR 7039/Univ. Henri Poincaré), Charpentier, Patrick (Nancy Univ.)	
Fr-C6	Auditorium 2
Service-Oriented Cross-Layer Infrastructure for Distributed Smart Embedded Devices (Invited Session)	
Chair: Diedrich, Christian	Otto-von-Guericke-Univ. Magdeburg
Co-Chair: Mendes, Marco	Faculty of Engineering of Univ. of Porto
18:00-18:24	Fr-C6.1
<i>Integration of Cross-Layer Web-Based Service-Oriented Architecture and Collaborative Automation Technologies: The SOCRADES Approach (I)</i> , pp. 2097-2102. Colombo, Armando Walter (Schneider Electric), Jammes, Francois (Schneider Electric Industries SAS (France))	
18:24-18:48	Fr-C6.2
<i>Towards a Service Oriented Architecture for Wireless Sensor Networks in Industrial Applications? (I)</i> , pp. 2103-2108. Sollacher, Rudolf (Siemens AG), Niedermeier, Christoph (Siemens AG), Vicari, Norbert (Siemens AG), Osipov, Maxim (Siemens AG)	
18:48-19:12	Fr-C6.3
<i>Integration of Legacy Devices in the Future SOA-Based Factory (I)</i> , pp. 2109-2114. Karnouskos, Stamatis (SAP), Bangemann, Thomas (Inst. für Automation und Kommunikation), Diedrich, Christian (Otto-von-Guericke-Univ. Magdeburg)	
19:12-19:36	Fr-C6.4
<i>Trends and Roadmaps on SOA-Based Embedded Networks for Industrial Automation Systems: A Review (I)</i> , pp. 2115-2120. Cannata, Alessandro (Pol. di Milano), Gerosa, Marco (Pol. di Milano), Taisch, Marco (Pol. di Milano)	
19:36-20:00	Fr-C6.5
<i>Assessing the Future of Manufacturing: The SOCRADES Technology Roadmap (I)</i> , pp. 2121-2126. Gerosa, Marco (Pol. di Milano), Cannata, Alessandro (Pol. di Milano), Taisch, Marco (Pol. di Milano)	
20:00-20:24	Fr-C6.6
<i>Towards the Real-Time Enterprise: Service-Based Integration of Heterogeneous SOA-Ready Industrial Devices with Enterprise Applications (I)</i> , pp. 2127-2132. Karnouskos, Stamatis (SAP), Guinard, Dominique (SAP), Savio, Domnic (SAP), Spiess, Patrik (SAP), Baecker, Oliver (SAP), Trifa, Vlad (SAP), Moreira Sa de Souza, Luciana (SAP)	
Fr-C7	Auditorium 3
Control, Identification, and Modeling of Complex Dynamical Plants (Invited Session)	
Chair: Mitrishkin, Yuri	Inst. of Control Sciences of the Russian Acad. of Sciences
Co-Chair: Lototsky, Vladimir	Inst. of Control Sciences of the Russian Acad. of Sciences
18:00-18:24	Fr-C7.1
<i>Plasma Shape and Current Tracking Control System for Tokamak (I)</i> , pp. 2133-2138. Mitrishkin, Yuri (Inst. of Control Sciences of the Russian Acad. of Sciences)	
18:24-18:48	Fr-C7.2
<i>A Special Protection Scheme against Thermal Overloads in Transmission Lines (I)</i> , pp. 2139-2144. Ferrarini, Luca (Pol. di Milano), Carneiro, Juliano (Pol. di Milano)	
18:48-19:12	Fr-C7.3
<i>Adaptive Robot Design and Applications in Flexible Manufacturing Environments (I)</i> , pp. 2145-2150. Gui, Ning (Univ. Antwerpen), De Florio, Vincenzo (Univ. Antwerpen), Caporaletti, Gabriella (EICAS Automazione), Blondia, Chris (Univ. Antwerpen)	
19:12-19:36	Fr-C7.4
<i>Uncertainty Analysis and Robust Control of Temperature Fields of Casting Mould As Distributed Parameter Systems (I)</i> , pp. 2151-2156. Belavy, Cyril (Slovak Univ. of Tech.), Hulko, Gabriel (Slovak Univ. of Tech.), Rohal-Ilkiv, Boris (Slovak Univ. of Tech.), Bucek, Pavol	

	(Slovak Univ. of Tech.), Noga, Pavol (Slovak Univ. of Tech.)	
19:36-20:00	<i>The Principles, Methods and Algorithms of Industrial Objects Identification in Control Systems (I)</i> , pp. 2157-2162. Myshlyayev, Leonid (Siberian State Industrial Univ.), Rykov, Alexander (Tech. State Univ. Moscow Inst. for Steel & Alloys), Lvova, Elena (Siberian State Industrial Univ.)	Fr-C7.5
20:00-20:24	<i>Identification of Fluid Flow Velocity and Pressure Distributions in Pipelines (I)</i> , pp. 2163-2168. Tmur, Anton (Moscow Inst. of Physics and Tech.)	Fr-C7.6
Fr-C8		Room 307
Reliability and Safety of Industrial Systems (Invited Session)		
	Chair: Zaikin, Oleg	West Pomeranian Univ. of Tech. in Szczecin
	Co-Chair: Kulba, Vladimir	Inst. of Control Sciences of the Russian Acad. of Sciences
18:00-18:24	<i>Associative Search Models in Power Grids (I)</i> , pp. 2169-2173. Bakhtadze, Natalia (Inst. of Control Sciences of the Russian Acad. of Sciences), Lototsky, Vladimir (Inst. of Control Science of the Russian Acad. of Sciences)	Fr-C8.1
18:24-18:48	<i>Method of Analytical Calculation Radiating (steam) Superheater of the Steam Locomotive (I)</i> , pp. 2174-2179. Olenev, Yevgeny (Vladimir State Univ.)	Fr-C8.2
18:48-19:12	<i>Construction of Physically Operated Continual Systems of Information Transformation and Handling (I)</i> , pp. 2180-2185. Putilin, Aleksandr (Moscow State Open Univ. (Pol. Inst.))	Fr-C8.3
19:12-19:36	<i>Sequence-Controlled Web Services for Programmable Logic Controllers</i> , pp. 2186-2191. Stoidner, Christoph (Univ. of Marburg), Mathes, Markus (Univ. of Marburg), Freisleben, Bernd (Univ. of Marburg)	Fr-C8.4
19:36-20:00	<i>Scenario Research of Stable Functioning of Manufacturing Systems on the Basis of Distributed Package Management Technologies (I)</i> , pp. 2192-2197. Kononov, Dmitry (Inst. of Control Sciences of the Russian Acad. of Sciences), Kulba, Vladimir (Inst. of Control Sciences of the Russian Acad. of Sciences)	Fr-C8.5
20:00-20:24	<i>Adaptive Approach to Developing Advanced Distributed E-Learning Management System for Manufacturing (I)</i> , pp. 2198-2201. Sabitov, Rustem (Kazan State Technical Univ.), Vassilyev, Stanislav (Inst. of Control Sciences, Russian Acad. of Sciences)	Fr-C8.6