



PROGRAM

OF THE 13th IFAC SYMPOSIUM ON
INFORMATION CONTROL PROBLEMS IN
MANUFACTURING

INCOM '09

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V.A. Trapeznikov Institute of Control Sciences



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Honeywell

General Sponsor

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SYMPOSIUM TRACKS

- **Design of Production Systems**, organisers and chairs : Ronald Askin (USA), Alexandre Dolgui (France), Anatoli Dashchenko (Russia), Genrikh Levin (Belarus), associated with IFAC TC 5.1 and IFAC TC5.2

Room: Large Conf-Hall

Sessions:

- Product Design and Process Planning (We-A1)
- Stochastic Models of Production Systems (We-C1)
- Line Design and Balancing (Th-A1)
- Facility Layout (Th-C1)
- Production System Design under Uncertainties (Fr-A1)
- Design of Reconfigurable Manufacturing Systems (Fr-C1)

- **Scheduling in Manufacturing Systems**, organisers and chairs : Alexander A. Lazarev (Russia), Vincent T'Kindt (France), Frank Werner (Germany)

Room: Small Conf-Hall

Sessions:

- Scheduling in Manufacturing – I (We-C2)
- Scheduling in Manufacturing – II (Th-A2)
- Scheduling in Manufacturing – III (Th-C2)
- Scheduling in Manufacturing – IV (Fr-A2)
- Scheduling heuristics (regular session) (Fr-C2)

- **Production Planning and Logistics**, chairs : Robert Grubbström (Sweden), Mohamed-Aly Louly (Saudi Arabia)

Room: Meeting Hall

Sessions:

- Decision Support Techniques (We-A3)
- Enterprise Resources Planning (We-C3)
- Models and Algorithms for Robust Production Planning, organizers: Najib M. Najid (France), El-Houssaine Aghezzaf (Belgium), (Th-A3)
- Heuristic and Metaheuristic Approaches (Fr-A3)
- Matheuristics in Production and Logistics, organizers: Anton Ereemeev (Russia), Yuri Kochetov (Russia), Vittorio Maniezzo (Italy), Nenad Mladenovic (UK), (Fr-C3)

- **Supply Network Engineering**, chairs : Jean-Claude Hennet (France), Shimon Nof (USA), associated with IFAC TC5.1 and IFAC TC5.2

Room: Reading Hall

SECTION: *Design and Management of Flexible Supply Networks*, organisers and chairs: Dmitry Ivanov (Germany), Kurt Sandkuhl (Sweden), Alexander Smirnov (Russia)

Sessions:

- Flexible Supply Chain Configuration and Knowledge-Management (We-A4)
- Flexible Supply Chain Planning (We-C4)
- Supply Chain Agility and Adaptability (Th-A4)
- Flexible Contracting, Negotiations and E-Solutions in Supply Chains (Th-C4)

SECTION: *Performance and Risk Measurement*, organisers and chairs: Lamia Berrah (France), Yves Ducq (France), Agostino Villa (Italy)

- Market Responsive Supply Network, regular session, (Fr-A4)
- Supply Chain Performance and Risk Measurement (Fr-C4)

- **Flexible, Agile and Reconfigurable Manufacturing Systems**, chairs : Anatol Pashkevich (France), Theodor Borangiu (Romania), associated with IFAC TC5.1

Room: Auditorium 1

Sessions:

- Robotic systems (We-A5)
- Flexible Manufacturing Systems (We-C5)
- Telematics in Manufacturing Control (Th-A5)

- **Products and Services Engineering and Management**, chairs : Sergio Cavalieri (Italy), Marco Taisch (Italy), associated with IFIP WG 5.7

Room: Auditorium 1

Sessions:

- Advanced Methods and Techniques for Product-Service Engineering and Management, organizers: Sergio Cavalieri (Italy), Marco Taisch (Italy), IFIP WG 5.7, (Th-C5)
- Monitoring and Predictive Maintenance, organizers: Kondo H. Adjallah (France), Nidhal Rezg (France), (Fr-A5)
- Product Driven Systems, organizers: André Thomas (France), Damien Trentesaux (France), (Fr-C5)

- **Enterprise Integration and Networking**, organiser and chair : Hervé Panetto (France), associated with IFAC TC5.3

Room: Auditorium 2

Sessions:

- Interoperability Challenges in Enterprise System Engineering, organizers: Janusz Szpytko (Poland), Hervé Panetto (France), (We-A6)
- Enterprise Modelling for Interoperability in Collaborative Networked, organizers: David Chen (France), Arturo Molina (Mexico), We-C6
- Enabling Reuse in Enterprise Systems Engineering, organizers: Lawrence Whitman (USA), Marek Obitko (Czech Republic), (Th -A6)
- Requirements, Techniques and Opportunities for Engineering and Verification of Enterprise Information Systems, Vincent Chapurlat (France), Mickaël Petit (Belgium), (Th-C6)

Room: Auditorium 2

Individual Sessions:

- Product, Service and Process Oriented Approaches, (Fr-A6)
- Service-Oriented Cross-layer Infrastructure for Distributed Smart Embedded Devices, organizers: Christian Diedrich (Germany), Armando Walter Colombo (Germany), (Fr-C6)

- **Discrete Event Systems**, chairs : Hassane Alla (France), Valeriy Vyatkin (Australia), associated with IFAC TC5.1 and IFAC TC 1.3

Room: Auditorium 3

Sessions:

- Discrete Event Systems: Modeling, Performance Evaluation and Supervisory Control – I, (Th-A7)
- Discrete Event Systems: Modeling, Performance Evaluation and Supervisory Control – II, (Th-C7)
- Discrete Event Systems, regular session, (Fr-A7)

Room: Auditorium 3

Invited Session:

- Control, Identification, and Modeling of Complex Dynamical Plants, organizer: Yuri V. Mitrishkin (Russia), (Fr-C7)

- **Advanced Software Engineering in Industrial Automation**, organisers and chairs: Victor Dubinin (Russia), Kleanthis Thramboulidis (Greece), Valeriy Vyatkin (Australia), Alois Zoitl (Austria), associated with IFAC TC5.1

Room: Auditorium 3

Sessions:

- Advanced Software Engineering in Industrial Automation – I (We-A7)
- Advanced Software Engineering in Industrial Automation – II (We-C7)

Room: 307

Sessions:

- Advanced Software Engineering in Industrial Automation – III (Th-A8)
- Advanced Software Engineering in Industrial Automation – IV (Th-C8)

- **Probabilistic and Statistical Models in Industrial Plant Control**, organisers and chairs : Igor Nikiforov (France), Alexander Mandel (Russia)

Room: 307

Sessions:

- Probabilistic & Statistical Models in Industrial Plant Control – I (We-A8)
- Probabilistic & Statistical Models in Industrial Plant Control – II (We-C8)
- Probabilistic & Statistical Models in Industrial Plant Control – III (Fr-A8)
- Reliability and Safety of Industrial Systems, organizers: Oleg Oleg Zaikin (Poland), Vladymir Kulba (Russia), Boris Pavlov (Russia), (Fr-C8)

We-KN	Large Conference Hall
Keynote Addresses – I (Plenary Session)	
11:00-11:50	We-KN.1
<i>PRODUCTION SYSTEMS ENGINEERING: Problems, Solutions, and Applications</i> , pp. 1-14. Li, Jingshan (Univ. of Kentucky), Meerkov, Semyon M. (Univ. of Michigan), Zhang, Liang (Univ. of Michigan)	
11:50-12:40	We-KN.2
<i>Optimal Lotsizing within Mrp Theory</i> , pp. 15-30. Grubbström, Robert W. (Linköping Inst. of Tech.), Bogataj, Marija (Univ. of Ljubljana), Bogataj, Ludvik (Univ. of Ljubljana)	
12:40-13:30	We-KN.3
<i>SmartFactory – a Vision Becomes Reality</i> , pp. 31-39. Zuehlke, Detlef (TU Kaiserslautern)	
We-A1	Large Conference Hall
Product Design and Process Planning (Invited Session)	
Chair: Aldanondo, Michel	Toulouse Univ. - Mines Albi
Co-Chair: Lesage, Jean-Jacques	ENS de Cachan
14:30-14:54	We-A1.1
<i>The Origin of Operations: Interactions between the Product and the Manufacturing Automation Control System</i> , pp. 40-45. Bengtsson, Kristofer (Teamster AB), Lennartson, Bengt (Chalmers Univ. of Tech.), Yuan, Chengyin (General Motors, R&D)	
14:54-15:18	We-A1.2
<i>Development of a Heuristic Process Planning Tool for Sequencing NC Machining Operations Extended by the Potential Field Analysis (I)</i> , pp. 46-51. Kretschmann, Ralf (Brandenburg Univ. of Tech. Cottbus), Berger, Ulrich (Brandenburg Univ. of Tech. Cottbus), Reichenbach, Matthias (Mercedes Benz Cars), Zürn, M. (Mercedes Benz Cars), Vargas Aparicio, Algebra Veronica (Brandenburg Univ. of Tech. Cottbus)	
15:18-15:42	We-A1.3
<i>Mathematical Models of Cutting Process Design (I)</i> , pp. 52-57. Mukhacheva, Elita (Ufa State Aviation Tech. Univ.), Panyukova, Tatiana (South Ural State Univ.)	
15:42-16:06	We-A1.4
<i>Joint Planning of Product / Process Configuration (I)</i> , pp. 58-62. Villa, Agostino (Pol. di Torino)	
16:06-16:30	We-A1.5
<i>Coupling Product Configuration and Process Planning with Constraints (I)</i> , pp. 63-68. Aldanondo, Michel (Toulouse Univ. - Mines Albi), Vareilles, Elise (Toulouse Univ. - Mines Albi), Djefel, Meriem (Toulouse Univ. - Mines Albi), Gaborit, Paul (Toulouse Univ. - Mines Albi), Abeille, Joel (Toulouse Univ. - Mines Albi)	
We-A3	Meeting Hall
Decision Support Techniques (Regular Session)	
Chair: Montmain, Jacky	EMA (Ec. des Mines d'Alès)
Co-Chair: Safaei, Nima	Univ. of Toronto
14:30-14:54	We-A3.1
<i>The Translation of Will into Act: Achieving a Consensus between Managerial Decisions and Operational Abilities (I)</i> , pp. 69-74. Montmain, Jacky (EMA (Ec. des Mines d'Alès)), Troussel, François (EMA (Ec. des Mines d'Alès))	
14:54-15:18	We-A3.2
<i>Using Mathematical Model for Allocation of Seedling in Seed Production: A Case Study (I)</i> , pp. 75-80. Valet, Benjamin (Univ. de Clermont-Ferrand II), Caux, Christophe (Univ. Blaise Pascal), Durieux, Séverine (IFMA), Nguyen, Cédric (IFMA)	
15:18-15:42	We-A3.3
<i>Economic Life of Capital Equipments in a Cellular Manufacturing System (I)</i> , pp. 81-86. Safaei, Nima (Univ. of Toronto), Banjevic, Dragan (Univ. of Toronto), Jardine, Andrew K. S. (Univ. of Toronto)	
15:42-16:06	We-A3.4
<i>Strategic Decision Risk Management in a Virtual Publishing House on a Basis of Computer Modelling</i> , pp.	

87-90.

Pesikov, Eduard (St. Petersburg State Univ. of Tech. and Design), Zaikin, Oleg (West Pomeranian Univ. of Tech. in Szczecin), Kuszina, Emma (West Pomeranian Univ. of Tech. in Szczecin)

16:06-16:30

We-A3.5

Optimal Control of an Oligopoly Model of Advertising, pp. 91-96.

Prasad, Ashutosh (Univ. of Texas at Dallas), Sethi, Suresh P. (Univ. of Texas at Dallas), Naik, Prasad (Univ. of California, Davis)

We-A4

Reading Hall

Flexible Supply Chain Con-figuration and Knowledge-Management (Invited Session)

Chair: Ivanov, Dmitry

Chemnitz Univ. of Tech.

Co-Chair: Sokolov, Boris

SPIIRAS

14:30-14:54

We-A4.1

Self-Configuration of Flexible Supply Networks: Profile-Based Information Support (I), pp. 97-102.

Smirnov, Alexander (St.Petersburg Inst. for Informatics and Automation of the RA), Levashova, Tatiana (St.Peterburg Inst. for Informatics and Automation of the RAS), Kashevnik, Alexey (St.Peterburg Inst. for Informatics and Automation of the RAS), Shilov, Nikolay (St.Peterburg Inst. for Informatics and Automation of the RAS)

14:54-15:18

We-A4.2

Modelling Competence Demand for Flexible Supply Networks (I), pp. 103-108.

Sandkuhl, Kurt (School of Engineering at Jönköping Univ.), Tarasov, Vladimir (Jönköping Univ.)

15:18-15:42

We-A4.3

Supply Chain Configuration Modeling under the Influence of Product Family Architecture, pp. 109-114.

Hadj-Hamou, Khaled (Grenoble INP), Shahzad, Muhammad Kashif (Grenoble INP)

15:42-16:06

We-A4.4

Pearl Chain Design for Synchronous Production (I), pp. 115-120.

Unger, Katja (Univ. of Applied Sciences), Teich, Tobias (FH Zwickau)

16:06-16:30

We-A4.5

Knowledge Management Based Supply Chain in Learning Organization (I), pp. 121-126.

Dumitrache, Ioan (Univ. Pol. of Bucharest), Stanescu, Aurelian M. (Univ. Pol. of Bucharest), Caramihai, Simona Iuliana (Univ. Pol. of Bucharest), Voinescu, Monica (Univ. Pol. of Bucharest), Moisescu, Mihnea Alexandru (Univ. Pol. of Bucharest), Sacala, Ioan Stefan (Univ. Pol. of Bucharest)

We-A5

Auditorium 1

Robotic Systems (Regular Session)

Chair: Pashkevich, Anatol

Ec. des Mines de Nantes

Co-Chair: Ferrarini, Luca

Pol. di Milano

14:30-14:54

We-A5.1

A Hierarchical Knowledge Based System for Assembly Tasks in Human-Robot Cell Manufacturing (I), pp. 127-132.

Wang, Lei (Kyoto Univ.), Sawaragi, Tetsuo (Kyoto Univ.), Tian, Yajie (Kyoto Univ.)

14:54-15:18

We-A5.2

A Mixed-Reality Approach to Test Automation Function for Manufacturing Systems (I), pp. 133-138.

Ferrarini, Luca (Pol. di Milano), Dedč, Alessio (Pol. di Milano)

15:18-15:42

We-A5.3

Design Optimization of Parallel Manipulators for High-Speed Precision Machining Applications (I), pp. 139-144.

Pashkevich, Anatol (Ec. des Mines de Nantes), Chablat, Damien (Inst. de Recherche en Communications et Cybernétique de Nante), Wenger, Philippe (Inst. de Recherche en Communications et Cybernétique de Nante)

15:42-16:06

We-A5.4

Reconfigurable Parallel Kinematic Manipulator for Flexible Manufacturing, pp. 145-150.

Haage, Mathias (Lund Univ.), Dressler, Isolde (Lund Univ.), Robertsson, Anders (LTH, Lund Univ.), Nilsson, Klas (Lund Univ.), Brogirdh, Torgny (ABB AB), Johansson, Rolf (Lund Univ.)

16:06-16:30

We-A5.5

A Decision Framework for Operation Management of Reconfigurable Mobile Service Robots in Hospitals, pp. 151-156.

Baalbaki, Hassan (Ec. Nationale Superieure des Mines de Saint Etienne), Xie, Xiaolan (Ec. Nationale Superieure des Mines de Saint Etienne)

We-A6		Auditorium 2
Interoperability Challenges in Enterprise System Engineering (Invited Session)		
Chair: Szpytko, Janusz	AGH Univ. of Science and Tech.	
Co-Chair: Panetto, Hervé	ESIAL - Nancy-Univ.	
14:30-14:54		We-A6.1
<i>Interoperable Approach to the HMI and Supervisory Systems in Man-Machine Systems (I)</i> , pp. 157-162. Smoczek, Jarosław (AGH Univ. of Science and Tech.), Szpytko, Janusz (AGH Univ. of Science and Tech.)		
14:54-15:18		We-A6.2
<i>Semantic Enrichment of Standard-Based Electronic Catalogues (I)</i> , pp. 163-168. Sarraipa, João (UNINOVA - Inst. de Desenvolvimento de Novas Tecnologias), Agostinho, Carlos (UNINOVA - Inst. de Desenvolvimento de Novas Tecnologias), Panetto, Hervé (ESIAL - Nancy-Univ.), Jardim-Goncalves, Ricardo (UNINOVA - Inst. de Desenvolvimento de Novas Tecnologias)		
15:18-15:42		We-A6.3
<i>Supply Chain Business Patterns Definition for Process Interoperability (I)</i> , pp. 169-174. Yahia, Esma (CRAN), Bigand, Michel (Ec. Centrale de Lille), Bourey, Jean-Pierre (Ec. Centrale de Lille), Castelain, Emmanuel (Ec. Centrale de Lille)		
15:42-16:06		We-A6.4
<i>POP* Meta-Model for Enterprise Model Interoperability (I)</i> , pp. 175-180. Chen, David (Univ. Bordeaux I)		
16:06-16:30		We-A6.5
<i>Integration of Semantic Interoperability in a Distributed Architecture of Multi-Site Planning</i> , pp. 181-186. Ishak, Karim (Univ. de Toulouse, Ec. ationale d'Ingénieursde Tarbes Lab.), Archimede, Bernard (Univ. de Toulouse, Ec. ationale d'Ingénieursde Tarbes Lab.), Charbonnaud, Philippe (ENIT)		
We-A7		Auditorium 3
Advanced Software Engineering in Industrial Automation – I (Invited Session)		
Chair: Vyatkin, Valeriy	Univ. of Auckland	
Co-Chair: Dubinin, Victor	Univ. of Penza	
14:30-14:54		We-A7.1
<i>Combining IEC 61499 and ISA S88 for Batch Control (I)</i> , pp. 187-192. Dimitrova, Desislava (Univ. of Chemical Tech. and Metallurgy), Batchkova, Idilia (Univ. of Chemical Tech. and Metallurgy), Panjaitan, Seno Darmawan (Tanjungpura Univ.), Wagner, Florian (Saarland Univ.), Frey, Georg (Saarland Univ.)		
14:54-15:18		We-A7.2
<i>Refactoring of Execution Control Charts in Basic Function Blocks of the IEC 61499 Standard (I)</i> , pp. 193-198. Dubinin, Victor (Univ. of Penza), Vyatkin, Valeriy (Univ. of Auckland)		
15:18-15:42		We-A7.3
<i>Systematic Closed-Loop Modelling in IEC 61499 Function Blocks: A Case Study (I)</i> , pp. 199-204. Pang, Cheng (Univ. of Auckland), Vyatkin, Valeriy (Univ. of Auckland)		
15:42-16:06		We-A7.4
<i>Automated Model Transformation between MATLAB Simulink/Stateflow and IEC 61499 Function Blocks (I)</i> , pp. 205-210. Yang, Chia-han (John) (Univ. of Auckland), Vyatkin, Valeriy (Univ. of Auckland)		
16:06-16:30		We-A7.5
<i>One Decade of IEC 61499 Modeling and Verification - Results and Open Issues (I)</i> , pp. 211-216. Hanisch, Hans-Michael (Martin Luther Univ. Halle-Wittenberg), Hirsch, Martin (Univ. of Halle), Missal, Dirk (Martin Luther Univ. Halle-Wittenberg), Preuße, Sebastian (Univ. of Halle), Gerber, Christian (Univ. of Halle)		
We-A8		Room 307
Probabilistic & Statistical Models in Industrial Plant Control – I (Invited Session)		
Chair: Mandel, Alexander Solomonovich	V.A. Trapeznikov Inst. of Control Sciences of the RAS	
Co-Chair: Nikiforov, Igor V.	Univ. de Tech. de Troyes	
14:30-14:54		We-A8.1
<i>Data Mining for Cycle Time Key Factor Identification and Prediction in Semiconductor Manufacturing (I)</i> , pp. 217-222. Meidan, Yair (Ben-Gurion Univ. of the Negev), Lerner, Boaz (Ben-Gurion Univ. of the Negev), Hassoun, Michael (Ben-Gurion Univ. of the Negev), Rabinowitz, Gad (Ben-Gurion Univ. of the Negev)		

14:54-15:18	We-A8.2
<i>Models and Algorithms of Inventory Control in Case of Uncertainty (I)</i> , pp. 223-228.	
Mandel, Alexander Solomonovich (V.A. Trapeznikov Inst. of Control Sciences of the RAS)	
15:18-15:42	We-A8.3
<i>Forecasting Probabilities of Gas Pipelines Technical Condition on a Basis of Graph and Aggregated Models (I)</i> , pp. 229-234.	
Vladova, Alla (Orenburg State Univ.), Kushnarenko, Vladimir (Orenburg State Univ.), Vladov, Jury (Orenburg State Univ.)	
15:42-16:06	We-A8.4
<i>Appointment Scheduling with Non-Punctual Arrivals</i> , pp. 235-239.	
Jouini, Oualid (Ec. Centrale Paris), Benjaafar, Saif (Univ. of Minnesota)	
16:06-16:30	We-A8.5
<i>Approximation of Continuous Distribution Via the Generalized Erlang Distribution</i> , pp. 240-245.	
Allaoui, Hamid (Univ. of Artois), Elmaghraby, Salah (North Caroline Univ.), Artiba, Hakim (SUPMECA PARIS), Benmansour, Rachid (SUPMECA)	
We-B	Lobby Hall
Information Systems, Control and Interoperability (Poster Session)	
Chair: Bakhtadze, Natalia	Inst. of Control Sciences, Russian Acad. of Sciences
Co-Chair: Pereira, Carlos Eduardo	Federal Univ. of Rio Grande do Sol
16:30-18:00	We-B.1
<i>Global Efficiency Assessment Based on Component Composition of OEE Using AltaRica Data-Flow Language (I)</i> , pp. 246-251.	
Kombe, Timothee (INSA de Lyon), Niel, Eric (INSA de Lyon), Pietrac, Laurent (INSA de Lyon), Rauzy, Antoine (Dassault Systems SA)	
16:30-18:00	We-B.2
<i>Multiple Fault Diagnostics in Solder Paste Printing Process Using Blind Separation Approach</i> , pp. 252-257.	
Chen, Wei-Shing (Da-Yeh Univ.)	
16:30-18:00	We-B.3
<i>Who Govern My Responsibilities? SIM: A Methodology to Align Business and IT Policies in the Industrial Field</i> , pp. 258-263.	
Feltus, Christophe (Public Res. Centre Henri Tudor), Incoul, Christophe (Public Res. Centre Henri Tudor), Aubert, Jocelyn (Public Res. Centre Henri Tudor), Benjamin, Gâteau (Public Res. Centre Henri Tudor)	
16:30-18:00	We-B.4
<i>Observer-Based Production Control of Manufacturing Machines</i> , pp. 264-269.	
Andrievsky, Boris (Inst. for Problems of Mechanical Engin.), Pogromsky, A.Yu. (Eindhoven Univ. of Tech.), Rooda, J.E. (Eindhoven Univ. of Tech.)	
16:30-18:00	We-B.5
<i>Developing a Robust Classifier for Fault Detection in Production Environment</i> , pp. 270-275.	
Chen, Long-Sheng (Chaoyang Univ. of Tech.), Hsu, Chun-Chin (Chaoyang Univ. of Tech.), Chen, Li-Fei (Fu Jen Catholic Univ.)	
16:30-18:00	We-B.6
<i>A Novel Method for Reachability Determination in Petri Nets</i> , pp. 276-281.	
Li, Duan (Chinese Univ. of Hong Kong), Sun, Xiaoling (Fudan Univ.), Gao, Jianjun (Chinese Univ. of Hong Kong), Gu, Shenshen (Chinese Univ. of Hong Kong), Zheng, Xiaojin (Shanghai Univ.)	
16:30-18:00	We-B.7
<i>Dynamic Behaviour of the Turning Process</i> , pp. 282-286.	
Stoi_, Antun (Faculty of Mechanical Engineering, Univ. of Osijek), Samardži_, Ivan (Faculty of Mechanical Engineering, Univ. of Osijek), Raos, Pero (Faculty of Mechanical Engineering, Univ. of Osijek), Šercer, Mladen (Univ. of Zagreb)	
16:30-18:00	We-B.8
<i>Stability Analysis of System with Fixed Structure Controller for Industrial Multi-Stage Separation Process Via Vector Lyapunov Function (I)</i> , pp. 287-291.	
Torgashov, Andrey (Inst. for Automation and Control Processes FEB RAS)	
16:30-18:00	We-B.9
<i>Safety Management System in a Clinical Medicine Department: A Case Study</i> , pp. 292-297.	
Ciarapica, Filippo Emanuele (Pol. Univ. of Marche), Bevilacqua, Maurizio (Pol. Univ. of Marche), Paciarotti, Claudia (Pol. Univ. of Marche)	

June 3, Wednesday

- 16:30-18:00 We-B.10
Dependability Issues for Intelligent Transmitters and Reliability Pattern Proposal, pp. 298-303.
 Brissaud, Florent (French National Inst. for Industrial Environment and Risks), Barros, Anne (Univ. de Tech. de Troyes), Berenguer, Christophe (Univ. de Tech. de Troyes), Charpentier, Dominique (Inst. National de l'Environnement Industriel et des Risques)
- 16:30-18:00 We-B.11
A Novel Independent Component Analysis Based Process Monitoring Scheme, pp. 304-309.
 Hsu, Chun-Chin (Chaoyang Univ. of Tech.), Yang, Chien-hsin (Overseas Chinese Inst. of Tech.), Su, Chao-Ton (National Tsing Hua Univ.)
- 16:30-18:00 We-B.12
Aggregation in a Branch Manufacturing Problem and Its Extension, pp. 310-312.
 Tsurkov, Vladimir (Dorodnicyn Computing Center of the Russian Acad. of Sciences)
- 16:30-18:00 We-B.13
Wireless Networked Control System Using ZigBee/IEEE 802.15.4, pp. 313-318.
 Boughanmi, Najet (LORIA-CRAN-INPL), Song, YeQiong (LORIA-INPL), Rondeau, Eric (CRAN-CNRS UMR 7039)
- 16:30-18:00 We-B.14
A Modified High-Order Adaptive Algorithm for Decentralized Control of Multivariable Plants with Uncertain Structures, pp. 319-324.
 Parsheva, Elizaveta (Astrakhan State Tech. Univ.)
- 16:30-18:00 We-B.15
Surface Roughness Modelling in Machining Processes, pp. 325-330.
 Vallejo, Antonio (Tecnologico de Monterrey, Campus Monterrey), Morales-Menendez, Ruben (Tecnologico de Monterrey, Campus Monterrey), Ramírez-Mendoza, Ricardo A. (ITESM Campus Monterrey)
- 16:30-18:00 We-B.16
An Autonomous Control Strategy Alternative for Critical Industrial Automated Systems, pp. 331-336.
 Pacheco, Luciana (Federal Univ. of Bahia), Lepikson, Herman (Federal Univ. of Bahia)
- 16:30-18:00 We-B.17
Component Group Diagnosability Via Directional Resolution, pp. 337-342.
 Havel, Ivan (Faculty of Electrical Engineering, Czech Tech. Univ.)
- 16:30-18:00 We-B.18
Modelling of a Discrete Manufacturing System by Parts of Plant, pp. 343-348.
 Philippot, Alexandre (Univ. de Reims Champagne Ardenne), Sayed Mouchaweh, Moamar (Univ. de Reims Champagne Ardenne), Carre-Menetrier, Veronique (Univ. de Reims Champagne Ardenne)
- 16:30-18:00 We-B.19
Dynamic Power Supply Control Procedure Development for Industrial Equipment, pp. 349-354.
 Kunicina, Nadezhda (RIGA Tech. Univ.), Ribickis, Leonids (RIGA Tech. Univ.), Patlins, Antons (RIGA Tech. Univ.)
- 16:30-18:00 We-B.20
Clustering of Patient Trajectories with an Auto-Stopped Bisecting K-Medoids Algorithm, pp. 355-360.
 Fei, Hongying (Catholic Univ. of Mons), Meskens, Nadine (Louvain school of management and Catholic Univ. of Mons), Moreau, Claire-Hélène (Catholic Univ. of Mons)
- 16:30-18:00 We-B.21
Adaptive Control System with Piece-Wise Perturbations, pp. 361-366.
 Shpilevaya, Olga (Novosibirsk State Tech. Univ.)
- 16:30-18:00 We-B.22
Auto-Increment of Expertise for Failure Diagnostic (I), pp. 367-372.
 Haouchine, Mohamed Karim (Automatic Control and Micro-Mechatronic Systems Department), Chebell Morello, Brigitte (Automatic Control and Micro-Mechatronic Systems Department), Zerhouni, Nouredine (Automatic Control and Micro-Mechatronic Systems Department)
- 16:30-18:00 We-B.23
Adaptive Control System for Pipeline Valve Pneumatic Actuator (I), pp. 373-378.
 Tlisov, Ali (Bauman Moscow State Tech. Univ.), Mitrishkin, Yuri (Bauman Moscow State Tech. Univ.)
- 16:30-18:00 We-B.24
Relation between Global Diagnosis and Diagnoses Obtained from Subsystems, pp. 379-384.
 Hu, He-xuan (Univ. des Sciences et Tech. de Lille), Gehin, Anne-Lise (Univ. des Sciences et Tech. de Lille), Bayart, Mireille (Univ. des Sciences et Tech. de Lille)
- 16:30-18:00 We-B.25

June 3, Wednesday

- Vertical Integration: Modeling and Evaluation*, pp. 385-390.
Aranbarri Artetxe, Josu (Ec. Centrale de Nantes), da Cunha, Catherine (Ec. Centrale de Nantes), Vergara Canizales, Victor (Ec. Centrale de Nantes), Rauffet, Philippe (Ec. Centrale de Nantes)
- 16:30-18:00 We-B.26
- Finding Equilibrium in Von Neumann's Model*, pp. 391-395.
Panyukov, Anatoly (South Ural State Univ.), Latipova, Alina Taihovna (South Ural State Univ.)
- 16:30-18:00 We-B.27
- Programming of Reliable Distributed Computations in Nondeterministic Computer Environments on the Basis of Calculus of Treelike Structures*, pp. 396-399.
Zatuliveter, Yurii (Inst. of Control Sciences of the RAS)
- 16:30-18:00 We-B.28
- Proposition of Plant Model for the Verification of System Safety*, pp. 400-405.
Marangé, Pascale (Univ. of Nancy), Gellot, François (Univ. of Reims), Riera, Bernard (Univ. of Reims)
- 16:30-18:00 We-B.29
- Applying Grey Relational Analysis and Fuzzy Neural Network to Improve the Yield of Thin-Film Sputtering Process in Color Filter Manufacturing*, pp. 406-411.
Chiang, Yu-Min (I-Shou Univ.), Hsieh, Hsin-Hsien (I-Shou Univ.)
- 16:30-18:00 We-B.30
- Towards a Self-Configurable Middleware for Production Control Systems with Wireless Sensor Networks*, pp. 412-417.
Podolski, Ina (Carl von Ossietzky Univ. Oldenburg), Rettberg, Achim (CvO Univ. Oldenburg)
- 16:30-18:00 We-B.31
- From UML Activity Diagrams to Event B (I)*, pp. 418-423.
Jemni Ben Ayed, Leila (Faculty of Science of Tunis), Hamdi, Najet (UTIC Tunisia)
- 16:30-18:00 We-B.32
- System Lifecycle Management: Preliminary Concepts and Tools*, pp. 424-429.
Robin, Vincent (Univ. of Bordeaux), Brunel, Stephane (Univ. of Bordeaux), Zolghadri, Marc (Univ. of Bordeaux), Girard, Philippe (Univ. of Bordeaux)
- 16:30-18:00 We-B.33
- On the Implementation of Task-Based Supervisory Controllers*, pp. 430-435.
Kovács, Gábor (Budapest Univ. of Tech. and Ec.)
- 16:30-18:00 We-B.34
- The Balanceability of the FMM Switching Control Policy*, pp. 436-441.
Wang, Xingxuan (Fudan Univ.)
- 16:30-18:00 We-B.35
- System Analysis and Control Design for Generalized Switched Server Systems*, pp. 442-447.
Wang, Xingxuan (Fudan Univ.)
- 16:30-18:00 We-B.36
- Distributed Diagnostic and Control of Cutting Processes Based on IEC-61499*, pp. 448-453.
Karamishev, Hristo (Tech. Univ. - Sofia), Stambolov, Grigor (Tech. Univ. - Sofia), Batchkova, Idilia (Univ. of Chemical Tech. and Metallurgy), Geshev, Totiu (Tech. Univ. - Sofia)
- 16:30-18:00 We-B.37
- Optimal Industrial Controller Tuning Algorithms in View of Constraints for Stability Margins*, pp. 454-459.
Yadykin, Igor (Inst. of Control Sciences of the RAS), Tchaikovsky, Michael (Inst. of Control Sciences of the RAS)
- 16:30-18:00 We-B.38
- New Delay-Dependent Stability Results for Discrete-Time Recurrent Neural Networks with Time-Varying Delay*, pp. 460-465.
Zhu, Xunlin (Zhengzhou Univ. of Light Industry), Wang, Youyi (Nanyang Tech. Univ.), Yang, Guang-hong (Northeastern Univ.), Soh, Yeng Chai (Nanyang Tech. Univ.)
- 16:30-18:00 We-B.39
- H_∞ Control of Discrete-Time T-S Fuzzy Systems with Local Nonlinear Models*, pp. 466-471.
Dong, Jiuxiang (Northeastern Univ.), Wang, Youyi (Nanyang Tech. Univ.), Yang, Guang-hong (Northeastern Univ.), Zhang, Guohua (Nanyang Tech. Univ.)
- 16:30-18:00 We-B.40
- Nonlinear Passivity Robust Decentralized Controller for Large Scale Power System*, pp. 472-477.
Loukianov, Alexander G. (CINVESTAV IPN GDL), Huerta, Héctor (CINVESTAV IPN GDL), Utkin, Victor (V.A. Trapeznikov Inst. of Control Sciences of the RAS), Canedo, Jose M. (CINVESTAV IPN GDL)
- 16:30-18:00 We-B.41

June 3, Wednesday

Cognitive Approach to Intransitivity of Preferences in Formal Decision Making, pp. 478-483.

Abramova, Nina (Inst. of Control Sciences of the Russian Acad. of Sciences)

16:30-18:00

We-B.42

Direct Method of Supervisor Implementation for Structured Discrete Dynamic Event System, pp. 484-489.

Ambartsumyan, Alexander (Inst. of Control Sciences, Russian Acad. of Science), Tomilin, Evgeny (Inst. of Control Sciences, Russian Acad. of Science), Branishtov, Sergey (Inst. of Control Sciences, Russian Acad. of Science), Khadeev, Anton (Inst. of Control Sciences, Russian Acad. of Science)

We-C1	Large Conference Hall
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Stochastic Models of Production Systems (Invited Session)

Chair: Meerkov, Semyon M.

Univ. of Michigan

Co-Chair: Xie, Xiaolan

Ec. Nationale Superieure des Mines de Saint-Etienne

18:00-18:24

We-C1.1

Modeling and Analysis of Two-Stage Systems with Parallel Machines and Limited Repair Capacity, pp. 490-495.

Colledani, Marcello (Pol. di Milano), Gershwin, Stanley (Massachusetts Inst. of Tech.)

18:24-18:48

We-C1.2

Transient Behavior of Two-Machine Geometric Production Lines (I), pp. 496-501.

Meerkov, Semyon M. (Univ. of Michigan), Shimkin, Nahum (Tech. - Israel Inst. of Tech.), Zhang, Liang (Univ. of Michigan)

18:48-19:12

We-C1.3

Analysis of Re-Entrant Lines: An Iterative Approach (I), pp. 502-507.

Liu, Yang (Univ. of Kentucky), Li, Jingshan (Univ. of Kentucky), Chiang, Shu_Yin (Ming Chuan Univ.)

19:12-19:36

We-C1.4

An Efficient Buffer Design Algorithm for Production Line Profit Maximization (I), pp. 508-513.

Shi, Chuan (Massachusetts Inst. of Tech.), Gershwin, Stanley (Massachusetts Inst. of Tech.)

19:36-20:00

We-C1.5

Performance Evaluation of a Failure-Prone Manufacturing System with Time to Delivery and Stochastic Demand, 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-C2	Small Conference Hall
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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

We-C2.1

Due Date Assignment and Scheduling under Special Conditions on Job Processing (I), pp. 520-525.

Gordon, Valery (United Inst. of Informatics Problems), Dolgui, Alexandre (Ec. des Mines de Saint Etienne), Strusevich, Vitaly (Univ. of Greenwich)

18:24-18:48

We-C2.2

Rescheduling for New Orders on a Single Machine with Setup Times (I), pp. 526-530.

Hoogeveen, Han (Utrecht Univ.), Lente, Christophe (Univ. François Rabelais Tours), T'kindt, Vincent (Univ. François Rabelais Tours)

18:48-19:12

We-C2.3

Polynomial Algorithm for $1|R_j, P_j=p, Pmnt|sum W_{ic_j}$ 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
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Enterprise Resources Planning (Regular Session)

Chair: Grubbström, Robert W.

Linköping Inst. of Tech.

June 3, Wednesday

- Co-Chair: Thomas, André Nancy Univ.
 18:00-18:24 We-C3.1
Dynamic Pricing and Production/Inventory Control: Batch-Size, Lost Sales and Random Leadtimes (I), pp. 544-549.
 Chen, Frank Y. (The Chinese Univ. of Hong Kong)
- 18:24-18:48 We-C3.2
A Simple Heuristic Algorithm Based on Segmentation to Solve Multilevel Lot-Sizing Problems (I), pp. 550-555.
 Kaku, Ikou (Akita Prefectural Univ.)
- 18:48-19:12 We-C3.3
Setting Planning Buffers in MRP Driven Manufacturing Networks Considering Their Implications on Safety Stock Cost, 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
Supply Chain Planning under Various Quantity Commitment Contracts, pp. 562-567.
 Amrani-Zouggar, Ad'cha (IMS Lab. Univ. of Bordeaux, UMR5131 CNRS), Deschamps, Jean-Christophe (IMS Lab. Univ. of Bordeaux, UMR5131 CNRS), Bourrières, Jean-Paul (IMS Lab. Univ. of Bordeaux, UMR5131 CNRS)
- 19:36-20:00 We-C3.5
Generation of Production Cycles in Multiple Server Systems with Setup Times: The Case Study, 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
Issues in Supply Chain Stability Estimation in Flexible Supply Networks and Possible Methods and Tools for Their Decision (I), pp. 574-579.
 Ivanov, Dmitry (Chemnitz Univ. of Tech.), Sokolov, Boris (SPIIRAS)
- 18:24-18:48 We-C4.2
Simulation-Based Analysis and Optimisation of Planning Policies Over the Product Life Cycle within the Entire Supply Chain, pp. 580-585.
 Merkurjeva, Galina (Riga Tech. Univ.), Napalkova, Liana (Riga Tech. Univ.), Vecherinska, Olesya (Riga Tech. Univ.)
- 18:48-19:12 We-C4.3
Mesoscopic Modeling and Simulation of Logistics Networks (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
A Lot Sizing Model with Integrated Tour Planning (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
Integrated Modelling Environment for Decision Making Support in Supply Chain Management: Conceptual Approach (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
A Recursive Framework for Manufacturing Control (I), pp. 604-609.
 Andreasson, Sven-Arne (Chalmers Univ. of Tech.)

June 3, Wednesday

- 18:24-18:48 We-C5.2
A Zones Formation Algorithm for Tandem AGV Systems (I), pp. 610-615.
 Awasthi, Anjali (Concordia Univ.), Chauhan, Satyaveer (Concordia Univ.), Proth, Jean-Marie (INRIA)
- 18:48-19:12 We-C5.3
Pallet Pose Estimation with LIDAR and Vision for Autonomous Forklifts (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
A Simulation Model for Parts Selection and Routing in Manufacturing Systems (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.
 Borangiu, 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
Next Generation Manufacturing Systems and the Virtual Enterprise (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
Enterprise Interoperability Short-Lived Ontology for HLA Compliant Federated Enterprise Interoperability Approach (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
Process Modeling Based Integration (I), pp. 648-653.
 Li, Qing (Tsinghua Univ. China), Wang, Cheng (Tsinghua Univ. China)
- 19:12-19:36 We-C6.4
Model Driven Interoperability through Semantic Annotations Using SoaML and ODM (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
A Business Model for Potential Customers Identification and Personalized Knowledge Provision of TSPs, 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, Valeriy Univ. of Auckland
 Co-Chair: Thramboulidis, Kleanthis Univ. of Patras
- 18:00-18:24 We-C7.1
Statistical Testing of IEC 61499 Compliant Software Components (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
Aspect-Oriented Programming for Manufacturing Automation Control Systems (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
Using GenERTiCA to Generation Code from RT-UML: A Case Study (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

June 3, Wednesday

Application of Genetic Programming for Generation of Controllers Represented by Automata (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

Integration of a DCS Based on IEC 61499 with Industrial Batch Management Systems (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

Integrating Dynamic Control Charts and Maintenance Policies (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

New Approach to Training of Technical Systems Fault Diagnosis Skills: Use of Probabilistic Models (I), pp. 701-706.

Dozortsev, Victor (Inst. of Control Sciences), Nazin, Vladimir A. (ZAO Honeywell)

18:48-19:12

We-C8.3

Algorithms for Detection of Changes in Random Processes for Monitoring of the Ecological Characteristics (I), pp. 707-712.

Grebenuk, Helen (Inst. of Control Sciences)

19:12-19:36

We-C8.4

Fault Detection and Isolation Based on the Constrained GLR Test (I), pp. 713-718.

Nikiforov, Igor V. (Univ. de Tech. de Troyes)

19:36-20:00

We-C8.5

Clustering Methods in the Problem of Industrial Plant Identification (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)	

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| 09:30-10:20 | | Th-KN.1 |
| <i>Novel IT Approaches and Solutions towards Real-Time, Cooperative Enterprises</i> , 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 |
| <i>Technical, Semantic and Organizational Issues of Enterprise Interoperability and Networking</i> , pp. 732-737. | | |
| Vernadat, François (European Court of Auditors) | | |
| 09:30-10:20 | | Th-KN.3 |
| <i>Influence of Computer Science and Information Technologies on Progress in Theory and Control Systems for Complex Plants</i> , 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)	

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------|
| | Chair: Bukchin, Yossi | Tel Aviv Univ. |
| | Co-Chair: Dolgui, Alexandre | Ec. des Mines de Saint Etienne |
| 13:00-13:24 | | Th-A1.1 |
| <i>An Approach to Transfer Line Balancing Via a Special Set Partitioning Problem (I)</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 |
| <i>Disassembly Scheduling for Family of Products</i> , 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 |
| <i>A GRASP Heuristic for Sequence-Dependent Transfer Line Balancing Problem (I)</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 |
| <i>Scheduling Physician Working Periods of a Chemotherapy Outpatient Unit</i> , 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 |
| <i>Deterministic and Dynamic Solution Approach for Welds Reallocation Due to Robot's Failures (I)</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)	

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------|
| | 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 |
| <i>A Parametric Algorithm for 2-Cyclic Robotic Scheduling with Interval Processing Times (I)</i> , pp. 784-789. | | |
| Levner, Eugene (Holon Inst. of Tech.), Kats, Vladimir (Inst. for Industrial Mathematics) | | |
| 13:24-13:48 | | Th-A2.2 |
| <i>Hierarchical Scheduling of Mobile Robots in Production-Transportation Supply Chains (I)</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 |
| <i>A New Branch-And-Bound Algorithm for the Unrelated Parallel Machine Scheduling Problem with Sequence-Dependent Setup Times (I)</i> , pp. 796-801. | | |
| Aramoon-Bajestani, M. (Univ. of Tehran), Tavakkoli-Moghaddam, Reza (Univ. of Tehran) | | |
| 14:12-14:36 | | Th-A2.4 |
| <i>A New Mathematical Model for Fuzzy Flexible Flow Shop Scheduling of Unrelated Parallel Machines Maximizing the Weighted Satisfaction Level (I)</i> , pp. 802-807. | | |

June 4, Thursday

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), Gorges, Michael (Univ. of Bremen), Jagalski, Thomas (Univ. of Bremen), Mehrsai, 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 Supérieure 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
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Telematics in Manufacturing Control (Regular Session)

Chair: Pereira, Carlos Eduardo	Federal Univ. of Rio Grande do Sol
13:00-13:24	Th-A5.1
<i>Evaluation of Indoor Positioning Technologies under Industrial Application Conditions in the SmartFactoryKL Based on EN ISO 9283 (I)</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
<i>Generating Reference Traces by Simulation for Tracking Control-Logic</i> , 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
<i>IEC61499 Service Interface Function Blocks to Access Decentralized Peripherals with Profibus DP</i> , pp. 886-891.	
Moran Solano, Maria Guadalupe (Univ. Autonoma del Estado de Mexico), Perez, Federico (Univ. of the Basque Country), Orive, Dario (Univ. del País Vasco), Estévez, Elisabet (Univ. del País Vasco), Marcos, Marga (Univ. del País Vasco)	
14:12-14:36	Th-A5.4
<i>Composition of Time-Constrained BPEL4WS Workflows Using the TICs Modeler</i> , 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
<i>Benefits of an Interdisciplinary Modular Concept in Automation of Machine and Plant Manufacturing</i> , 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, François	European Court of Auditors
13:00-13:24	Th-A6.1
<i>UML Profiles for Transforming GRAI Decisional Models into UML Use Cases (I)</i> , pp. 904-909.	
Grangel Seguer, Reyes (Univ. Jaume I), Bigand, Michel (Ec. Centrale de Lille), Bourey, Jean-Pierre (Ec. Centrale de Lille)	
13:24-13:48	Th-A6.2
<i>Architecture for Explicit Specification of Agent Behavior (I)</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
<i>Modelling Interoperability in Networked Organisations with the Connector Concept (I)</i> , pp. 916-921.	
Carstensen, Anders (Jönköping Univ.), Holmberg, Lennart (Kongsberg Automotive), Sandkuhl, Kurt (School of Engineering at Jönköping Univ.)	
14:12-14:36	Th-A6.4
<i>A Practical Enterprise Model Repository (I)</i> , pp. 922-927.	
Whitman, Lawrence (Wichita State Univ.), Huffman, John (Spirit Aerosystems)	
14:36-15:00	Th-A6.5
<i>Refining the Notion of Responsibility in Enterprise Engineering to Support Corporate Governance of IT</i> , pp. 928-933.	
Feltus, Christophe (Public Res. Centre Henri Tudor), Petit, Michael (Univ. of Namur), Vernadat, François (European Court of Auditors)	

Th-A7 Auditorium 3
Discrete Event Systems: Modeling, Performance Evaluation and Supervisory Control – I (Invited Session)

Chair: Alla, Hassane	Univ. Joseph Fourier
Co-Chair: Demongodin, Isabel	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

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Supervisory Controller Design to Enforce Some Basic Properties in Timed Petri Nets (I), pp. 940-945.

Aybar, Aydin (Anadolu Univ.), Iftar, Altug (Anadolu Univ.)

13:48-14:12

Th-A7.3

Feedback Control Logic Synthesis for Non Safe Petri Nets (I), pp. 946-951.

Dideban, Abbas (Semnan Univ.), Alla, Hassane (ENSE3)

14:12-14:36

Th-A7.4

Identification of Timed Stochastic Petri Net Models with Normal Distributions of Firing Periods (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

Online Diagnosis of Systems with Rectangular Hybrid Automata Models (I), pp. 958-963.

Derbel, Haithem (Gipsa-Lab.), Alla, Hassane (Univ. Joseph Fourier), Ben Hadj-Alouane, Nejjib (Applied Information Sciences), Yeddes, Moez (ENSI)

Th-A8

Room 307

Advanced Software Engineering in Industrial Automation – III (Invited Session)

Chair: Vyatkin, Valeriy

Univ. of Auckland

Co-Chair: Dubinin, Victor

Univ. of Penza

13:00-13:24

Th-A8.1

Model Checking of Multi-Agent Distributed Reconfigurable Embedded Control Systems (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

Building Meaningful Timed Plant Models for Verification Purposes (I), pp. 970-975.

Perin, Matthieu (ENS Cachan), Faure, Jean-Marc (ENS Cachan)

13:48-14:12

Th-A8.3

Pattern-Based Analysis of Automated Production Systems (I), pp. 976-981.

Campos, José Creissac (Univ. of Minho), Machado, José (Univ. of Minho)

14:12-14:36

Th-A8.4

Using Web Services to Achieve Code Reuse in Manufacturing Applications (I), pp. 982-987.

Sarachaga González, M^ª 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

Performance Analysis of a Real-Time Java Execution Environment for IEC61499 (I), pp. 988-993.

Thramboulidis, Kleantlis (Univ. of Patras), Doukas, George (Univ. of Patras)

Th-B

Lobby Hall

Artificial Intelligence and Operations Research Techniques (Poster Session)

Chair: Dolgui, Alexandre

Ec. des Mines de Saint Etienne

Co-Chair: Werner, Frank

Otto-von-Guericke-Univ. Magdeburg

15:00-16:30

Th-B.1

Tabu Search Metaheuristic Embedded in Adaptive Memory Procedure for the Profitable Arc Tour Problem, pp. 994-999.

Euichi, Jalel (Faculty of Ec. and management of Sfax, Tunisia)

15:00-16:30

Th-B.2

A Model for Storage Arrangement and Re-Allocation, pp. 1000-1005.

Hou, Jiang-Liang (National Tsing Hua Univ.)

15:00-16:30

Th-B.3

Modeling and Decomposition of Complex Dynamic Interconnected Systems, pp. 1006-1011.

Quyang, 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

Optimal Linear Quadratic Gaussian Problem Applied to Reverse Logistics System, pp. 1012-1017.

Silva Filho, Oscar Salviano (Centro de Tecnologia de Informação - Renato Archer)

15:00-16:30

Th-B.5

SoS Methodologies for the Definition of Lean Manufacturing Systems (I), pp. 1018-1023.

Alfieri, Arianna (Pol. di Torino), Cantamessa, Marco (Pol. di Torino), Montagna, Francesca (Pol. di Torino)

June 4, Thursday

- 15:00-16:30 Th-B.6
Optimizing Crude Oil Operations under Uncertainty, pp. 1024-1029.
 Wang, Jishuai (Zhejiang Univ.), Rong, Gang (Zhejiang Univ.), Feng, YiPing (Zhejiang Univ.)
- 15:00-16:30 Th-B.7
Negotiation Model in a Multi-Agent Supply Chain System for the Crisis Management, pp. 1030-1035.
 Zgaya, Hayfa (Ec. Centrale de Lille), Hammadi, Slim (Ec. Centrale de Lille), Bretaudeau, Francis (EADS Defence and Security Systems), Zoghliami, 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, Chiu-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 Belkad'd Uuniversity - Tlemcen), Sari, Zaki (Abou-Bekr Belkad'd Uuniversity - Tlemcen), Guezzen, Amine Hakim (Abou-Bekr Belkad'd 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-

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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.
Pajłk, Michał (Radom Univ. of Tech.), Mułowski, Artur (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
A Multi-Cave Visualization System for Digital Manufacturing, 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
A Robust Fuzzy Scheduling Strategy for Generalized Switched Server Systems, pp. 1166-1171.
Wang, Xingxuan (Fudan Univ.)
- 15:00-16:30 Th-B.31
Measuring Flexibility in Field-Service Using Simulation (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
How Deals with Discrete Data for the Reduction of Simulation Models Using Neural Network, pp. 1177-1182.
Thomas, Philippe (Nancy Univ.), Thomas, André (Nancy Univ.)
- 15:00-16:30 Th-B.33
Manufacturing Shop Floor Agility Using Multi-Agent Technology, pp. 1183-1188.
Floroian, Dan (Transilvania Univ. of Brasov), Ryzkin, 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
Scheduling of Transmission Order for Systems with Shared Communication Medium, pp. 1189-1194.
Guo, Yuqian (Central South Univ.), Wang, Youyi (Nanyang Tech. Univ.), Xie, Lihua (Nanyang Tech. Univ.), Zhang, Huanshui (Shandong Univ.)

June 4, Thursday

- 15:00-16:30 Th-B.35
A Reduced-Complexity Algorithm for Two-Job Shop Scheduling Problems with Availability Constraints, pp. 1195-1200.
 Aggoune, Riad (Public Res. Centre Henri Tudor), Mati, Yazid (Al-Qassim Univ.), Dautžre-Pérçs, Stéphane (Ec. des Mines de Saint-Etienne)
- 15:00-16:30 Th-B.36
Supply Management under the Limitation on Production Rates, pp. 1201-1205.
 Awasthi, Anjali (Concordia Univ.), Chauhan, Satyaveer (Concordia Univ.), Proth, Jean-Marie (INRIA)
- 15:00-16:30 Th-B.37
System of Simulation and Control with Mobile Sources on the MATLAB, pp. 1206-1209.
 Butkovskiy, Anatoliy Grigorjevich (Inst. of Control Sciences), Kubyshkin, Victor Alekseevich (Inst. of Control Sciences), Suhoverov, Victor Stepanovich (Inst. of Control Sciences)
- 15:00-16:30 Th-B.38
Optimisation of Machining Lines Composed of Unit-Built Machines, 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
Facility Layout (Invited Session)	

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|--------------------------|-------------------------------------------------------|
| 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
An Adapted Genetic Algorithm to Solve Generalized Cell Formation. (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
Layout of Facilities Involving Arbitrary-Shaped Departments (I), pp. 1222-1227.
 Sarin, Subhash (Virginia Tech.), Wang, Yuqiang (United Airlines), Wang, Lixin (Virginia Tech.)
- 17:18-17:42 Th-C1.3
Evolutionary Approaches to the Linear Machine Layout Problem, 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
Hybrid Method to Solve a Facility Layout Problem: Genetic Algorithm - Particle Swarm Optimization (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
Line-Side Buffer Assignment in General Assembly Line Systems with Material Handling (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
Scheduling in Manufacturing – III (Invited Session)	

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|------------------------------|------------------------------------------------------|
| 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
Scheduling Jobs with Equal Processing Times (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
Functional Decompositions for a Production and Distribution System (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
Scheduling Parallel Production Lines with Energy Costs (I), pp. 1257-1262.
 Hadt, Alain (Univ. de Toulouse, Inst. Supérieure de l'Aéronautique), Artigues, Christian (LAAS CNRS)
- 17:42-18:06 Th-C2.4
Optimal Loading and Unloading Policy in Cross-Docking Platform (I), pp. 1263-1268.
 Maknoon, Mohammad Yousef (Ec. Pol. Montreal), Baptiste, Pierre (Ec. Pol. Montreal), Kone, Pumar

June 4, Thursday

(Univ. de Toulouse)

- 18:06-18:30 Th-C2.5
An Exact Method for the Best Case in a Group Sequence: Application to a General Shop Problem (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
An Approach for Flexible Customer-Supplier Relationships with Fixed Delivery Contracts and Quota Agreements (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
Forecast Sharing, Within a Two Echelon Supply Chain, 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
Semantic SOA 4 SOA Supply Networks (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
Adapting an Agent-Based Negotiation Protocol for a Collaborative Network of CBM Service Providers (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
From Supply Chains to Supply Networks: The Beer Game Evolution, 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: Cavalieri, Sergio Univ. of Bergamo
 Co-Chair: Taisch, Marco Pol. di Milano

- 16:30-16:54 Th-C5.1
Optimizing Product Support (spare Parts Procurement) Strategy by Considering System Operating Environment – a Case Study (I), pp. 1305-1310.
 Ghodrati, Behzad (Univ. of Toronto), Banjevic, Dragan (Univ. of Toronto), Jardine, Andrew K. S. (Univ. of Toronto)

- 16:54-17:18 Th-C5.2
Towards Measuring the Impact of Information Availability on Maintenance Decisions (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
Decision Support System Using Risk Assessment for Life-Cycle Management of Industrial Plants (I), pp. 1317-1322.
 Marques, Maria (UNINOVA), Neves-Silva, Rui (FCT-UNL)

- 17:42-18:06 Th-C5.4
A Logistic Service Provider Reference Model (I), pp. 1323-1328.
 Gerosa, Marco (Pol. di Milano), Taisch, Marco (Pol. di Milano)

- 18:06-18:30 Th-C5.5
Product-Service Engineering: State of the Art and Future Directions (I), pp. 1329-1334.
 Pezzotta, Giuditta (Univ. of Bergamo), Cavalieri, 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
<i>Progress Management in Performance-Driven Systems: Study of the 5Steps® Roadmapping, a Solution for Managing Organizational Capabilities and Their Learning Curves</i> , 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
<i>Context-Aware Business Processes Modelling: Concepts, Issues and Framework</i> , pp. 1359-1364.		
Boukadi, Khoulood (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
<i>Finding the Bounds of Response Time of Networked Automation Systems by Iterative Proofs (I)</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
<i>Temporal Moore Machines (I)</i> , pp. 1371-1376.		
Giambiasi, Norbert (Univ. Paul Cézanne, Aix-Marseille III)		
17:18-17:42		Th-C7.3
<i>Modelling Systems with Periodic Routing Functions in Diod (min, +) (I)</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
<i>A Dual Approach for Modelling Urban Traffic (I)</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
<i>An FDI Method for Manufacturing Systems Based on an Identified Model (I)</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
<i>A New Tool-Kit for Designing Complex Material Handling Systems Using IEC61499 Function Blocks (I)</i> , pp.		

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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
<i>Cognitive Technologies in Adaptive Models of Complex Plants</i> , 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
<i>Prerequisites and Development Lines of Control Systems for UES of Russia</i> , 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
<i>Self-Organizing Logistics Systems</i> , pp. 1444-1451. Bartholdi, III, John J. (Georgia Inst. of Tech. Atlanta)	
12:50-13:40	Fr-KN2.2
<i>Stochastic Dynamic Pricing Models of Monopoly Systems</i> , 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>Partial Job-Order for Solving the Two-Machine Flow-Shop Minimum-Length Problem with Uncertain</i>	

June 5, Friday

Processing Times (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

Near Optimal and Optimal Solutions for an Integrated Employee Timetabling and Production Scheduling Problem (I), pp. 1506-1511.

Guyon, Olivier (UCO, IMA, LISA), Lemaire, Pierre (École des Mines de Nantes), Pinson, Eric (UCO, IMA, LISA), Rivreau, David (UCO, IMA, LISA)

16:06-16:30

Fr-A2.5

Lower Bounds and Flat Graphs of Precedence Relations for the Resource-Constrained Project Scheduling Problem (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

A Hybrid Memetic Algorithm for the Competitive P-Median Problem (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

Genetic Algorithm for Multicriteria Optimization of a Multi Pickup and Delivery Problem with Time Windows, 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

Heuristics for Two-Dimensional Loading Capacitated Vehicle Routing Problem with Time Windows, 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

An Ant Colony Optimization Algorithm for a Vehicle Routing Problem with Heterogeneous Fleet, Mixed Backhauls, and Time Windows., 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

Comparison of Deterministic Heuristics and Simulated Annealing for the Rotational Placement Problem Over Containers with Fixed Dimensions, 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

A Cooperative Approach to Supply Network Design (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

Inventory Policies for a Batch-Replenishment Supplier with Alternative Delivery Lead-Time Choices, pp. 1551-1555.

Wang, Haifeng (Tsinghua Univ.), Yan, Houmin (The Chinese Univ. of Hong Kong)

15:18-15:42

Fr-A4.3

Consideration of the Undershoot in an (r, Q) Inventory Model for Perishables, 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

Smooth Priorities for Multi-Product Inventory Control, pp. 1562-1567.

Mendonça, Francisco José (Inst. Superior Técnico - Univ. Técnica de Lisboa), Bispo, Carlos (Inst.

June 5, Friday

Superior Técnico - Univ. Técnica de Lisboa)

16:06-16:30

Fr-A4.5

Simulation Analysis of Less Master Production Schedule Nervousness Model, 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

An Ahp Based Model for the Selection of Decision Categories in Maintenance Systems, pp. 1574-1579.

Ierace, Stefano (Intellimech Consortium), Cavalieri, Sergio (Univ. of Bergamo)

14:54-15:18

Fr-A5.2

A Procedure for Failure Prognostic in Dynamic Systems (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

Opportune Maintenance and Predictive Maintenance Decision Support (I), pp. 1586-1591.

Thomas, Edouard (Nancy-Univ.), Levrat, Eric (Nancy-Univ.), Iung, Benoît (Nancy Univ.), Cochetoux, Pierre (Nancy-Univ.)

15:42-16:06

Fr-A5.4

Optimization of a Maintenance Strategy with Considering the Influence of the Production Plan on the Manufacturing System Degradation (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

Computerized Maintenance Management Systems in SMEs: A Survey in Italy and Some Remarks for the Implementation of Condition Based Maintenance, 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

A Service Enabled Approach to Automation Management, 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

Developing Communications between a Service-Enabled Manufacturing System and a Multi-Agent System (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

Towards a Resource-Driven Modelling Paradigm in Collaborative and Service-Oriented Enterprises, 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

Enterprise Modelling Techniques to Help Manufacturing Firms Develop Product Service Activities (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

Operational Competence Management - Comparison of Industrial Frameworks, pp. 1626-1631.

Gabot, 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, Dmitriy (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

June 5, Friday

- 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.) Fr-B.3
- 16:30-18:00
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.) Fr-B.4
- 16:30-18:00
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.) Fr-B.5
- 16:30-18:00
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) Fr-B.6
- 16:30-18:00
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) Fr-B.7
- 16:30-18:00
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.) Fr-B.8
- 16:30-18:00
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) Fr-B.9
- 16:30-18:00
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) Fr-B.10
- 16:30-18:00
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) Fr-B.11
- 16:30-18:00
Constructing an Adaptive Color Reproduction System with Color Space Reference Regions Recognition, pp. 1745-1750.
Fursoy, Vladimir (Image Processing Systems Inst. of the RAS), Kazansky, Nikolay (Image Processing Systems Inst. of the RAS), Nikonorov, Artem (Samara State Aerospace Univ.) Fr-B.12
- 16:30-18:00
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.) Fr-B.13
- 16:30-18:00
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) Fr-B.14
- 16:30-18:00
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) Fr-B.15
- 16:30-18:00

June 5, Friday

- 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

June 5, Friday

- Modeling of Grouped Buildings and Their Control with Friction Dampers (I)*, pp. 1854-1859.
Marinova, Daniela (Tech. Univ. of Sofia) Fr-B.31
16:30-18:00
- Distributed Fuzzy Product Configuration Using a Multi-Agent Approach*, pp. 1860-1865.
Ostrosi, Egon (UTBM), Fougères, Alain-Jérôme (UTBM), Ferney, Michel (UTBM), Klein, Didier (UTBM) Fr-B.32
16:30-18:00
- A Framework for a Quality Assurance in Offset Printing*, 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
- Cognitive Technologies for the Creation of CAD-System*, pp. 1872-1877.
Volkova, Galina (MSTU) Fr-B.34
16:30-18:00
- Unifying Process Design with Automation and Control Application Development - an Approach Based on Information Integration and Model-Driven Methods*, pp. 1878-1883.
Hästbacka, David (Tampere Univ. of Tech.), Mätäsniemi, Teemu (VTT Tech. Res. Centre of Finland) Fr-B.35
16:30-18:00
- ...; Nalog Computations and Current Problems of Automatic Control (I)*, pp. 1884-1885.
Babayan, Robert (Inst. of Control Sciences, Russian Acad. of Sciences) Fr-B.36
16:30-18:00
- Methodology for Assessing System Performance Loss within a Proactive Maintenance Framework*, 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
- Coupling Simulation and Optimization for an Integrated Production and Maintenance Planning in Manufacturing Systems*, 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
- On-Line Management of EoL Product Defective Condition for Optimal Disassembly Planning*, 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
- Integrated Modeling Management of Flexible Supply Networks*, 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
- Service Engineering As a Framework to Designing Hybrid Products (I)*, pp. 1909-1914.
Gudergan, Gerhard (FIR Aachen Univ.), Stich, Volker (FIR Aachen Univ.), Frombach, Ralf (FIR Aachen Univ.), Hübbbers, Marc (FIR Aachen Univ.) Fr-B.41
16:30-18:00
- Dynamics of Changes in Adequacy of Management During Transition to Trajectory of Intensive Development*, pp. 1915-1918.
Kleparskaya, Ekaterina (Inst. of Control Sciences)

Fr-C1	Large Conference Hall
Design of Reconfigurable Manufacturing Systems (Invited Session)	
Chair: Toguyeni, Armand	Ec. Centrale de Lille
Co-Chair: Lamouri, Samir	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

June 5, Friday

Models Based on Petri Nets for the Design of the Control Function of a Reconfigurable Manufacturing System, pp. 1931-1936.

Toguyeni, Armand (Ec. Centrale de Lille)

19:12-19:36

Fr-C1.4

Evaluation of Mathematical Programming Models for the Reconfiguration of Reconfigurable Manufacturing Systems, pp. 1937-1942.

Bourdeaud'huy, Thomas (LAGIS - Ec. Centrale de Lille), Toguyeni, Armand (Ec. Centrale de Lille)

19:36-20:00

Fr-C1.5

Optimisation of Flexibility According to an Efficiency Criterion: The Example of the Infrastructures for the New Eurofarad Industrial Site (I), pp. 1943-1948.

Leličvre, Adrien (SUPMECA), Durieux, Séverine (IFMA), Génin, Patrick (SUPMECA), Lamouri, Samir (SUPMECA)

20:00-20:24

Fr-C1.6

Modelling and Analysing of Time Constrained and Reconfigurable Manufacturing Processes, 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

Wroclaw Univ. of Tech.

Co-Chair: Mebarki, Nasser

IUT de Nantes

18:00-18:24

Fr-C2.1

Solving the Response Time Variable Problem by Means of a Variable Neighbourhood Search Algorithm, 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.), Srisankarajah, 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: Eremeev, 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.)

June 5, Friday

- 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), Mingozzi, 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
Open-Control: A New Concept for Integrated Product-Driven Manufacturing Control (I), pp. 2061-2066.

June 5, Friday

Sallez, Yves (Univ. of Valenciennes), Berger, Thierry (Univ. of Valenciennes), Trentesaux, Damien (Univ. of Valenciennes)

18:24-18:48 Fr-C5.2

Enhanced Supply Chain Tracking Based on the EPC Network: A Bayesian Approach (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

Hoist Scheduling Problem: Coupling Reactive and Predictive Approaches (I), pp. 2073-2078.

Chove, Etienne (IRCCyN), Castagna, Pierre (Univ. of Nantes), Abbou, Rosa (IRCCyN)

19:12-19:36 Fr-C5.4

Decision Making in the Supply Network (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

Stigmergy: A Design Pattern for Product-Driven Systems (I), pp. 2085-2090.

Pannequin, Rémi (CNRS & Nancy Univ.), Thomas, André (Nancy Univ.)

20:00-20:24 Fr-C5.6

Automatic Generation of Simulation Code Using Product Location Information (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

Integration of Cross-Layer Web-Based Service-Oriented Architecture and Collaborative Automation

Technologies: The SOCRADES Approach (I), pp. 2097-2102.

Colombo, Armando Walter (Schneider Electric), Jammes, Francois (Schneider Electric Industries SAS (France))

18:24-18:48 Fr-C6.2

Towards a Service Oriented Architecture for Wireless Sensor Networks in Industrial Applications? (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

Integration of Legacy Devices in the Future SOA-Based Factory (I), pp. 2109-2114.

Karnouskos, Stamatias (SAP), Bangemann, Thomas (Inst. für Automation und Kommunikation), Diedrich, Christian (Otto-von-Guericke-Univ. Magdeburg)

19:12-19:36 Fr-C6.4

Trends and Roadmaps on SOA-Based Embedded Networks for Industrial Automation Systems: A Review (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

Assessing the Future of Manufacturing: The SOCRADES Technology Roadmap (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

Towards the Real-Time Enterprise: Service-Based Integration of Heterogeneous SOA-Ready Industrial Devices with Enterprise Applications (I), pp. 2127-2132.

Karnouskos, Stamatias (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
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Co-Chair: Lototsky, Vladimir	Inst. of Control Sciences of the Russian Acad. of Sciences
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18:00-18:24 Fr-C7.1

Plasma Shape and Current Tracking Control System for Tokamak (I), pp. 2133-2138.

June 5, Friday

- Mitrishkin, Yuri (Inst. of Control Sciences of the Russian Acad. of Sciences)
 18:24-18:48 Fr-C7.2
A Special Protection Scheme against Thermal Overloads in Transmission Lines (I), pp. 2139-2144.
 Ferrarini, Luca (Pol. di Milano), Carneiro, Juliano (Pol. di Milano)
- 18:48-19:12 Fr-C7.3
Adaptive Robot Design and Applications in Flexible Manufacturing Environments (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
Uncertainty Analysis and Robust Control of Temperature Fields of Casting Mould As Distributed Parameter Systems (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 Fr-C7.5
The Principles, Methods and Algorithms of Industrial Objects Identification in Control Systems (I), pp. 2157-2162.
 Myshlyaev, Leonid (Siberian State Industrial Univ.), Rykov, Alexander (Tech. State Univ. Moscow Inst. for Steel & Alloys), Lvova, Elena (Siberian State Industrial Univ.)
- 20:00-20:24 Fr-C7.6
Identification of Fluid Flow Velocity and Pressure Distributions in Pipelines (I), pp. 2163-2168.
 Tmur, Anton (Moscow Inst. of Physics and Tech.)

Fr-C8	Room 307
Reliability and Safety of Industrial Systems (Invited Session)	

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|---------------------------|---------------------------------------------------|
| Chair: Zaikin, Oleg | West Pomeranian Univ. of Tech. in Szczecin |
| Co-Chair: Kulba, Vladimir | Inst. of Control Sciences of the Russian Acad. of |
- 18:00-18:24 Fr-C8.1
Associative Search Models in Power Grids (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)
- 18:24-18:48 Fr-C8.2
Method of Analytical Calculation Radiating (steam) Superheater of the Steam Locomotive (I), pp. 2174-2179.
 Olenev, Yevgeny (Vladimir State Univ.)
- 18:48-19:12 Fr-C8.3
Construction of Physically Operated Continual Systems of Information Transformation and Handling (I), pp. 2180-2185.
 Putilin, Aleksandr (Moscow State Open Univ. (Pol. Inst.))
- 19:12-19:36 Fr-C8.4
Sequence-Controlled Web Services for Programmable Logic Controllers, pp. 2186-2191.
 Stoidner, Christoph (Univ. of Marburg), Mathes, Markus (Univ. of Marburg), Freisleben, Bernd (Univ. of Marburg)
- 19:36-20:00 Fr-C8.5
Scenario Research of Stable Functioning of Manufacturing Systems on the Basis of Distributed Package Management Technologies (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)
- 20:00-20:24 Fr-C8.6
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Jemai, Zied	Th-A3.1	814		Th-C2	CC
	Fr-A4.3	1556		Fr-A2	CC
Jemni Ben Ayed, Leila	We-B.31	418		Fr-A2.5	1512
Jeong, Suho	Fr-B.29	1848	Lazic, Jasmina	Fr-C3.4	2008
Johansson, Rolf	We-A5.4	145		Fr-C3.5	2014
Jouini, Oualid	We-A8.4	235	Leclercq, Edouard	Th-A7.4	952
Jozefczyk, Jerzy	Fr-C2	C	Lefebvre, Dimitri	Th-A7.4	952
	Fr-C2.6	1985	Leitão, Paulo	Fr-B.14	1763
				Fr-B.15	1769
K					
Kádár, Botond	Th-KN.1	724	Lelièvre, Adrien	Fr-C1.5	1943
Kadera, Petr	Fr-B.20	1799	Lemaire, Pierre	Fr-A2.4	1506
Kaku, Ikou	We-C3.2	550	Lennartson, Bengt	We-A1.1	40
Kammarti, Ryan	Fr-A3.2	1521		We-C7.2	672
Karamishev, Hristo	We-B.36	448	Lente, Christophe	We-C2.2	526
Karnok, David	Th-KN.1	724	Lepikson, Herman	We-B.16	331
Karnoukos, Stamatis	Fr-C6.3	2109		Fr-A7.5	1656
	Fr-C6.6	2127	Lepuschitz, Wilfried	We-C7.5	690
Kartak, Vadim	Fr-C3.3	2003	Lerner, Boaz	We-A8.1	217
Kashevnik, Alexey	We-A4.1	97	Lesage, Jean-Jacques	We-A1	CC
Kats, Vladimir	Th-A2.1	784		Th-C7.5	1389
Kazansky, Nikolay	Fr-B.11	1745	Levashova, Tatiana	We-A4.1	97
Kelepouris, Thomas	Fr-C5.2	2067	Levin, Genrikh	Th-B.23	1125
Kenné, Jean-Pierre	Th-B.21	1113		Th-B.38	1210
Khadeev, Anton	We-B.42	484	Levner, Eugene	Th-A2	C
Khalgui, Mohamed	Th-A8.1	964		Th-A2.1	784
Khebbache, Selma	Fr-A3.3	1527		Th-A2.2	790
Khmelnitsky, Evgeni	Fr-A8	CC	Levrat, Eric	Fr-A5.3	1586
	Fr-A8.3	1673		Fr-B.36	1886
Khodyrev, Dmitriy	Fr-A8.4	1678	Li, Duan	We-B.6	276
Kis, Tamas	Th-KN.1	724	Li, Fang	Th-A5.5	898
Klein, Didier	Fr-B.31	1860	Li, Jingshan	We-KN.1	1
Kleparskaya, Ekaterina	Fr-B.41	1915		We-C1.3	502
Kochetov, Yuri	Fr-A3	CC		Th-C1.5	1239
	Fr-A3.1	1516	Li, Qing	We-C6.3	648
	Fr-C3.1	1991		Th-C6	CC
Kochetova, Nina	Fr-A3.1	1516	Liao, Mou-Yuan	Fr-A8.2	1668
Kochhar, Ashok Kumar	Fr-B.12	1751	Lima II, Eduardo Jose	Fr-A7.5	1656
Kolokolov, Alexander	Fr-A2.1	1493	Little, James	Th-B.27	1148
Kombe, Timothee	We-B.1	246	Litz, Lothar	Th-C7.5	1389
Kone, Pumar	Th-C2.4	1263	Liu, Xiaopei	Fr-B.10	1739
Kononov, Alexander	Fr-C3.2	1997	Liu, Yang	We-C1.3	502
Kononov, Dmitry	Fr-C8.5	2192	Liu, Ying	Th-A2.5	808
Kononova, Polina	Fr-C3.2	1997	Liu, Yusheng	Fr-B.10	1739
Korolev, M.L.	Fr-KN1.2	1436	Loiseau, Jean-Jacques	Th-C7.3	1377
Korytkowski, Przemyslaw	Fr-A1.3	1475	Lototsky, Vladimir	Fr-C7	CC
	Fr-B.32	1866		Fr-C8.1	2169
Kostogryzov, Andrey	Th-B.18	1095	Loukianov, Alexander G.	We-B.40	472
Kouiki, Chaaben	Fr-A4.3	1556	Lupu, Ciprian	Th-C7.4	1383
Kovács, Gábor	We-B.33	430	Lvova, Elena	Fr-C7.5	2157
Kovalchouk, Aleksandr	Fr-B.25	1829	M		
Kovalyov, Mikhail Y.	Th-A3.4	832	Macchi, Marco	Fr-A5.5	1598
Koynov, Toncho	Fr-B.24	1823	Machado, José	Th-A8.3	976
Kraus, Peter	Th-A5.1	874	Mätäsniemi, Teemu	Fr-B.34	1878
Kravchenko, Svetlana	Th-C2.1	1245	Maffei, Renan	Th-B.29	1160
Kravtsov, Svyatoslav	Fr-B.24	1823			

Philippot, Alexandre	We-B.18	343	Ruel, Silvain	Th-C7.1	1365
Pierreval, Henri	Fr-A1	C	Rust, Tobias	Th-C4.1	1275
	Fr-A1.5	1487	Rutten, Eric	Fr-A7	C
Pietrac, Laurent	We-B.1	246		Fr-A7.1	1632
Pinot, Guillaume	Th-C2.5	1269	Rykov, Alexander	Fr-C7.5	2157
Pinson, Eric	Fr-A2.4	1506	Ryu, Jee-Hwan	Fr-B.6	1715
Plyasunov, Alexandr	Fr-A3.1	1516	Ryvkin, Sergey	Th-B.33	1183
	Fr-C3.1	1991			
Podolski, Ina	We-B.30	412			
Poduraev, Jury	Fr-B.6	1715	S		
Pogromsky, A.Yu.	We-B.4	264	Sabar, Mohamed	Fr-C2.4	1973
Popova, Viara	Th-C6.3	1347	Sabitov, Rustem	Fr-C8.6	2198
Prasad, Ashutosh	We-A3.5	91	Sacala, Ioan Stefan	We-A4.5	121
Preuße, Sebastian	We-A7.5	211	Sadykov, Ruslan	Fr-A2.2	1497
Prins, Christian	Fr-A3.3	1527	Safaei, Nima	We-A3	CC
	Fr-A3.4	1533		We-A3.3	81
Promyslov, Vitaly	Fr-B.22	1811		Th-B.11	1053
Proth, Jean-Marie	We-C5	CC	Sahin, Evren	Fr-A4.3	1556
	We-C5.2	610	Saint Germain, Bart	Fr-C5.4	2079
	Th-B.36	1201	Salcic, Zoran	Th-C8.1	1395
	Fr-KN2.2	1452	Sallez, Yves	Fr-C5.1	2061
Pupkov, Konstantin	Fr-B.25	1829	Samardži, Ivan	We-B.7	282
Putilin, Aleksandr	Fr-C8.3	2180	Sanchez-Sanchez, Christian	Th-C4.3	1287
			Sandkuhl, Kurt	We-A4.2	103
				We-C4	CC
				Th-A6.3	916
				Th-C4	C
			Sarachaga González, MŞ Isabel	Th-A8.4	982
			Saranen, Juha Petteri	Fr-A7.2	1638
			Sari, Tewfik	Th-B.13	1065
			Sari, Zaki	Th-B.13	1065
			Sarin, Subhash	We-C2.5	538
				Th-C1.2	1222
			Sarraipa, João	We-A6.2	163
			Sauer, Nathalie	We-C1.5	514
				Fr-C2.2	1961
			Sauvey, Christophe	Fr-C2.2	1961
			Savio, Domnic	Fr-C6.6	2127
			Sawaragi, Tetsuo	We-A5.1	127
			Sayed Mouchaweh, Moamar	We-B.18	343
			Schenk, Michael	We-C4.3	586
			Schlüter, Marcus	Fr-B.3	1698
			Scholz-Reiter, Bernd	Th-A4.2	850
			Schwarzkopf, Roland	Th-A5.4	892
			Secchi, Cristian	Th-C8.4	1412
			Sethi, Suresh P.	We-A3.5	91
			Seyyedi, Seyyedi	Th-B.12	1059
			Shahzad, Muhammad Atif	Fr-C2.5	1979
			Shahzad, Muhammad Kashif	We-A4.3	109
			Shalyto, Anatoly	We-C7.4	684
			Sharpanskykh, Alexei	Th-C6.3	1347
			Shatalov, Roman	Fr-B.24	1823
			Shaw, Gareth Darcy	Th-C8.1	1395
			Sheremetov, Leonid	Th-C4.3	1287
			Shi, Chuan	We-C1.4	508
			Shilov, Nikolay	We-A4.1	97
			Shimkin, Nahum	We-C1.2	496
			Shiraki, Toru	Fr-A1.4	1481
			Shpilevaya, Olga	We-B.21	361
			Silva Filho, Oscar Salviano	Th-B.4	1012
			Silverio, Nelson	Fr-B.15	1769
			Sim, Tze Ying	Th-A5.5	898
			Singer, Gonen	Fr-A8.3	1673
			Sitompul, Carles	Th-A3.2	820
			Sliman, Layth	Fr-A6.3	1614
			Smale, Daniel	Fr-C1.1	1919
			Smalko, Zbigniew	Th-B.28	1154
			Smirnov, Alexander	We-A4.1	97
				We-C4	C
				Th-A4	C
			Smoczek, Jarosław	We-A6.1	157
			Smutnicki, Czesław Adam	Th-B.26	1142
			Sörensen, Kenneth	Th-B.22	1119
			Soh, Yeng Chai	We-B.38	460
			Sokolov, Boris	We-A4	CC
				We-C4.1	574
				We-C4.5	598
				Th-KN.3	738
			Sokolov, Dmitry	We-C7.4	684

Q

Qian, Kun	Fr-B.10	1739
Quiot, Jean-Marc	Th-C6.2	1341
Quyang, XinYu	Th-B.3	1006

R

Rabelo, Ricardo	We-C6.1	634
Rabinowitz, Gad	We-A8.1	217
Radakovic, Miloslav	Th-A6.2	910
Raddatz, Marcus	Fr-B.3	1698
Rafele, Carlo	Th-B.24	1131
Raileanu, Silviu	We-C5.5	628
Ramirez-Mendoza, Ricardo A.	We-B.15	325
Ramudhin, Amar	Fr-C4.1	2025
Raos, Pero	We-B.7	282
Rapaccini, Mario	Th-B.31	1172
	Th-C4.4	1293
	Fr-A5.5	1598
Ratchev, Svetan	Fr-C1.1	1919
Rauffet, Philippe	We-B.25	385
	Th-C6.4	1353
Rauzy, Antoine	We-B.1	246
Raviv, Tal	Th-C2.2	1251
Reggelin, Tobias Max	We-C4.3	586
	Th-C4	CC
Reghioui, Mohamed	Fr-A3.3	1527
Reichenbach, Matthias	We-A1.2	46
Remor Oliveira, Rodrigo	Th-B.29	1160
Restivo, Francisco	Fr-B.14	1763
Rettberg, Achim	We-B.30	412
Rezaei, Nazila	Th-A2.4	802
Rezaeian, Rezaeian	Th-B.12	1059
Rezg, Nidhal	Fr-A5.4	1592
Ribeiro, Alexandre da Silva	Fr-A7.5	1656
Ribeiro, Luis	Fr-B.15	1769
Ribickis, Leonids	We-B.19	349
Riera, Bernard	We-B.28	400
Rigatos, Gerasimos	Fr-B.27	1838
Rivreau, David	Fr-A2.4	1506
Robertsson, Anders	We-A5.4	145
Robin, Vincent	We-B.32	424
Rohal-Ilkiv, Boris	Fr-C7.4	2151
Romero, David	We-C6	CC
	We-C6.1	634
Rondeau, Eric	We-B.13	313
Rong, Gang	Th-B.6	1024
Rooda, J.E.	We-B.4	264
Roop, Partha S.	Th-C8.1	1395
Ros McDonnell, Lorenzo	Fr-C4.4	2043
Rosenberg, Roey	Th-A1.5	778
Rossi, André	Fr-A1.1	1464
Rosu, Andrei	We-C5.5	628
Roth, Matthias	Th-C7.5	1389
Rozin, Boris	Th-B.23	1125

