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Editors:

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Tchangani, Ayeley, Philippe	Lab. Génie de Production	
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Johnsson, Charlotta	Lund Univ.
Quttineh, Nils-Hassan	Department of Mathematics, Linköping Univ.
Lidestam, Helene	Department of Management and Engineering, Linköping Univ.
Henningsson, Mathias	Department of Management and Engineering, Linköping Univ.
Wikner, Joakim	Linköping Univ.
Tang, Ou	Department of Management and Engineering, Linköping Univ.
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Sazvar, Zeinab	Department of Industrial Engineering, SharifUniversityofTechnolo
BABOLI, Armand	INSA-Lyon, DISP Lab. F-69621,France
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Alain, Guinet, Alain	Lab. Décision et Information pour les Systèmes de Product
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 Wu, Dash
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Kenn�, Jean-Pierre	�cole de Tech. Sup�erieure
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Dolgui, Alexandre	Ec. Nationale Sup�erieure des Mines de Saint-Etienne
14:20-14:40	ThB2.4
<i>Inventory Placement Optimisation in Complex Supply Chains</i> , pp. 412-417.	
HAMMAMI, Ramzi	ESC Rennes School of Business
Frein, Yannick	Grenoble INP
14:40-15:00	ThB2.5
<i>Comparing Inventory Policies for Closed-Loop Supply Chain Using Simulation-Based Optimization</i> , pp. 418-423.	
godichaud, matthieu	Univ. de Tech. de Troyes UTT
Amodeo, Lionel	UTT
15:00-15:20	ThB2.6
<i>Benefits and Limitations of the SCOR Model in Warehousing</i> , pp. 424-429.	
LEPORI, Elvia	Humanis, EM Strasbourg
DAMAND, David	Humanis, EM Strasbourg
BARTH, Marc	Humanis, EM Strasbourg
ThB3	Aud.41 (ITMO)
Scheduling and Optimization (Regular Session)	
Chair: Sarin, Subhash	Virginia Tech.
Co-Chair: DUPONT, Lionel	Ec. des Mines d'Albi-Carmaux
13:20-13:40	ThB3.1
<i>Scheduling Tasks with Comb Precedence Constraints on Dedicated Machines</i> , pp. 430-435.	
Nicosia, Gaia	Univ. Roma Tre
Pacifici, Andrea	Univ. di Roma "Tor Vergata"
14:00-14:20	ThB3.3
<i>A Multi-Start Procedure for the Minimum Latency Problem</i> , pp. 436-441.	
Angel-Bello, Francisco	Tecnol�gico de Monterrey
Alvarez, Ada	Univ. Aut�noma de Nuevo Le�n, Graduated Program in System
Garcia, Irma	Univ. Aut�noma de Coahuila
14:20-14:40	ThB3.4
<i>Generalized Covering Location Problem with Multiple-Coverage: Exact and Heuristic Method</i> , pp. 442-447.	
DUPONT, Lionel	Ec. des Mines d'Albi-Carmaux
LAURAS, Matthieu	Centre de G�nie Industriel, Mines d'Albi
Yugma, Claude	Ec. des Mines de Saint Etienne

14:40-15:00	ThB3.5
<i>Two-Stage, Multiple-Lot, Lot Streaming Problem for a 1 + 2 Hybrid Flow Shop</i> , pp. 448-453.	
Sarin, Subhash	Virginia Tech.
Cheng, Ming	Virginia Tech.
15:00-15:20	ThB3.6
<i>Development of Intelligent Decision Support System Based on Unified Concept for Distributed Manufacturing Planning</i> , pp. 454-459.	
Minhas, Sarfraz Ul Haque	Chair of Automation Tech. Brandenburg Univ. of Tech.
Juzek, Christian	BTU Cottbus
Berger, Ulrich	Brandenburg Univ. of Tech. Cottbus
Lehmann, Christian	Brandenburg Univ. of Tech. Chair of Automation Tech.
ThB4	Aud.51 (ITMO)
Facility Planning and Warehousing (Regular Session)	
Chair: Gong, Yeming	EMLYON Business School
Co-Chair: Rozin, Boris	United Inst. of Informatics Problems
13:20-13:40	ThB4.1
<i>Optimal Placement of a Finite-Size Facility: A Computational Study of Sequential and Parallel Implementations</i> , pp. 460-465.	
Nagi, Rakesh	Univ. at Buffalo (SUNY)
Date, Ketan	Univ. at Buffalo
13:40-14:00	ThB4.2
<i>Designing Public Storage Warehouses with High Demand for Revenue Maximization</i> , pp. 466-470.	
Gong, Yeming	EMLYON Business School
14:00-14:20	ThB4.3
<i>MILP Formulations for the Order Batching Problem in Low-Level Picker-To-Part Warehouse Systems</i> , pp. 471-476.	
ONCAN, TEMEL	GALATASARAY Univ.
CAGIRICI, MERVE	ETI PAZARLAMA ve SANAYII AS
14:20-14:40	ThB4.4
<i>Planning Flow of Material and Energy for Photovoltaics Industry</i> , pp. 477-482.	
Horbach, Sebastian	Chemnitz Univ. of Tech.
Schaarschmidt, Frank	Chemnitz Univ. of Tech.
Schulze, Robin	Chemnitz Univ. of Tech.
Ackermann, Jörg	Chemnitz Univ. of Tech.
Müller, Egon	Chemnitz Univ. of Tech.
14:40-15:00	ThB4.5
<i>Study of the Transferability of Properties Used for Designing Production Systems Layouts to Distribution Warehouse Layout Design</i> , pp. 483-488.	
LEPORI, Elvia	Humanis, EM Strasbourg
HERR, Nathalie	FEMTO-ST Inst.
DAMAND, David	Humanis, EM Strasbourg
BARTH, Marc	Humanis, EM Strasbourg
ThB5	Aud.52 (ITMO)
Stochastic Models (Regular Session)	
Chair: Gershwin, Stanley	Massachusetts Inst. of Tech.
Co-Chair: Zhang, Liang	Univ. of Wisconsin-Milwaukee
13:20-13:40	ThB5.1
<i>Solving the Problems of Inspection Planning under Parametric Uncertainty of Underlying Models</i> , pp. 489-494.	
Nechval, Nicholas	Univ. of Latvia
Ribakova, Natalija	Univ. of Latvia
13:40-14:00	ThB5.2
<i>Risk Analysis in Project Early Phase Taking into Account the Product Lifecycle: Towards a Generic Risk Typology for Bidding Process</i> , pp. 495-500.	
Botero Lopez, Juan Diego	Ec. Nationale d'ingénieurs de Tarbes ENIT - Univ.
Béler, Cédric	Lab. Génie de Production / INP-ENIT - Univ. ofToulou
Noyes, daniel	école nationale d'ingénieurs de tarbes
14:00-14:20	ThB5.3
<i>Performance Analysis of Serial Production Lines with Deteriorating Product Quality</i> , pp. 501-506.	

Naebulharam, Raed	Univ. of Wisconsin-Milwaukee
Zhang, Liang	Univ. of Wisconsin-Milwaukee
14:20-14:40	ThB5.4
<i>An Optimal Production Planning and Maintenance Policy for a Multiple-Product and Single Machine under Failure Rate Dependency</i> , pp. 507-512.	
Mifdal, Lahcen	LGIPM-Lorraine Univ. Metz
Hajej, Zied	Univ. de Metz
Dellagi, Sofiene	Univ. de Metz
REZG, Nidhal	Metz Univ.
14:40-15:00	ThB5.5
<i>Optimal Production Planning for a Manufacturing System: An Approach Based on PA</i> , pp. 513-518.	
TURKI, sadok	Univ. de Lorraine
Hajej, Zied	Univ. de Metz
REZG, Nidhal	Metz Univ.
15:00-15:20	ThB5.6
<i>Analysis and Optimization of a Single-Item Production System with Lead Time under General Periodic Review Inventory Policy</i> , pp. 519-524.	
Nakade, Koichi	Nagoya Inst. of Tech.
ThB6	Aud.31 (ITMO)
Theory and Applications of Ahp and Anp for Decision Making in Manufacturing Systems - 1 (Invited Session)	
Chair: Pecchia, Leandro	Univ. of Nottingham
Co-Chair: Petrillo, Antonella	Univ. of Cassino
13:20-13:40	ThB6.1
<i>Analytic Hierarchy Process to Support the Safety and Ergonomic Assessment of Alternatives in "manuable" Material Handling (I)</i> , pp. 525-530.	
Rossi, Diana	Dipartimento di Ingegneria Meccanica e Industriale, Univ. d
Bertoloni, Enrico	Dipartimento di Ingegneria Meccanica e Industriale, Univ. d
Fenaroli, Marco	Dipartimento di Ingegneria Meccanica e Industriale, Univ. d
Marciano, Filippo	Dipartimento di Ingegneria Meccanica e Industriale, Univ. d
Alberti, Marco	Dipartimento di Ingegneria Meccanica e Industriale, Univ. d
13:40-14:00	ThB6.2
<i>AHP and ANP As Particular Cases of Markov Chains (I)</i> , pp. 531-536.	
Stavrovsky, Evgueny	Gazprom Promgaz Company
Krasilnikova, Marina	Inst. VNIIPromgaz
Pryadko, Sergey	Russian State Univ. of oil and gas
14:00-14:20	ThB6.3
<i>Proposal of a Multi Criteria Approach for a Sustainable Management Model of Electrical and Electronic Equipment (I)</i> , pp. 537-542.	
De Felice, Fabio	Univ. of Cassino and Southern Lazio
Petrillo, Antonella	Univ. of Cassino
Autorino, Claudio	Univ. of Naples Parthenope
14:20-14:40	ThB6.4
<i>Decision Making on Smart Grids Projects Moving Using AHP Method: The Case of Algerian Network (I)</i> , pp. 543-548.	
Iberraken, Fairouz	Univ. of Bejaia
Medjoudj, Rabah	Univ. of Bejaia
Aïssani, Djamil, aïssani	Univ. of Béjaia
14:40-15:00	ThB6.5
<i>Analysis of Complex Decisional Situations in Companies with the Support of AHP Extension of Vroom-Yetton Contingency Model (I)</i> , pp. 549-554.	
Mls, Karel	Univ. of Hradec Kralove
Otcenaskova, Tereza	Univ. of Hradec Kralove
15:00-15:20	ThB6.6
<i>Interactive Management Control Via Analytic Hierarchy Process (AHP). an Empirical Study in a Public University Hospital (I)</i> , pp. 555-560.	
Pecchia, Leandro	Univ. of Nottingham

ThB7	Aud.61 (ITMO)
Information Systems and Mass Customization (Regular Session)	

Chair: Wortmann, Hans Co-Chair: Poulin, Marc	Univ. of Groningen Zayed Univ.
13:20-13:40	ThB7.1
<i>Modelling the E-Business Requirements of Manufacturing Organisations</i> , pp. 561-566.	
Kochhar, Ashok Kumar Dilworth, John	Aston Univ. Aegeus Systems Consultants Limited
13:40-14:00	ThB7.2
<i>Modelling Collaborative-Driven Supply Chains: The ComVantage Method</i> , pp. 567-572.	
Buchmann, Robert Karagiannis, Dimitris	Univ. of Vienna, Faculty of Computer Science Univ. of Vienna, Faculty of Computer Science, Knowledge Eng
14:00-14:20	ThB7.3
<i>ICT and Business Alignment in Partner Network: Will the Alignment Depend on Maturities?</i> , pp. 573-578.	
Kangilaski, Taivo	Tallinn Univ. of Tech.
14:20-14:40	ThB7.4
<i>A Modeling Approach towards an Extended Product Data Model for Sustainable Mass-Customized Products</i> , pp. 579-583.	
Osorio, Joycer Romero, David Molina, Arturo	Tecnológico de Monterrey Tecnológico de Monterrey, Campus Ciudad de México Tecnologico de Monterrey
14:40-15:00	ThB7.5
<i>Product Modelling for Simulating Business Networks Offering Mass Customization</i> , pp. 584-589.	
Poulin, Marc Montreuil, Benoit	Zayed Univ. Faculté des sciences de l'administration, Univ. Laval
15:00-15:20	ThB7.6
<i>Incorporating Text in Enterprise Information Systems</i> , pp. 590-595.	
Ittoo, Ashwin Wortmann, Hans	RuG Univ. of Groningen
ThB8	Aud.42 (ITMO)
Artificial Intelligence and Machine Learning Approaches (Regular Session)	
Chair: Grabot, Bernard Co-Chair: Bobtsov, Alexey	ENIT France Sainr Petersburg National Res. Univ. of ITMO
13:20-13:40	ThB8.1
<i>Smart and Green Adaptive Cruise Control for an Electric Vehicle: First Results</i> , pp. 596-601.	
Potarusov, Roman nouveliere, lydie Orfila, Olivier Glaser, Sébastien	IFSTTAR Lab. des Systemes Complexes IFSTTAR INRETS-LCPC
13:40-14:00	ThB8.2
<i>A Novel Training Algorithm for Artificial Hydrocarbon Networks Using an Energy Model of Covalent Bonds</i> , pp. 602-608.	
Ponce, Pedro Molina, Arturo Ponce, Hiram	ITESM-CCM Tecnologico de Monterrey ITESM-CCM
14:00-14:20	ThB8.3
<i>Control Approches for Complicated Self-Unstable Plants with Applications for Two-Wheel Mobile System</i> , pp. 609-613.	
Bobtsov, Alexey Borgul, Alexandr Zimenko, Konstantin Pyrkin, Anton	Sainr Petersburg National Res. Univ. of ITMO St. Petersburg National Res. Univ. of ITMO St. Petersburg National Res. Univ. of ITMO Saint Petersburg National Res. Univ. of Information Tec
14:20-14:40	ThB8.4
<i>Human-Machine Interface for Mechatronic Devices Control</i> , pp. 614-618.	
Bobtsov, Alexey Borgul, Alexandr	Sainr Petersburg National Res. Univ. of ITMO St. Petersburg National Res. Univ. of ITMO
14:40-15:00	ThB8.5
<i>A New AR Interaction for Collaborative E-Maintenance System</i> , pp. 619-624.	
Zenati, nadia	Centre de Developpement des Tech. Avancées
15:00-15:20	ThB8.6

Improving Maintenance Strategies from Experience Feedback, pp. 625-630.

Potes Ruiz, Paula
Kamsu-Foguem, Bernard
Grabot, Bernard

Lab. Génie de Production / INP-ENIT - Univ. de Toulou
Lab. Génie de Production / ENIT
ENIT France

ThB9	Aud.32 (ITMO)
Computer Modeling and Simulation of Complex Technical and Manufacturing Systems - 1 (Invited Session)	
Chair: Senichenkov, Yuri Borisovitch	Saint Petersburg State Pol. Univ.
Co-Chair: Korytkowski, Przemyslaw	West Pomeranian Univ. of Tech. in Szczecin
13:20-13:40	ThB9.1
<i>Management Risks Integrated Modelling with Regards to Complex Organizational and Technical Systems (I)</i> , pp. 631-636.	
Sokolov, Boris	SPIIRAS
Yusupov, Rafael Midhatovich	Inst. of the Russian Acad. of Sciences St.PetersburgInst
Merkuryev, Yuri	Riga Tech. Univ.
Potryasaev, Semyon	St.Petersburg Inst. for Informatics and Automation of the Ru
13:40-14:00	ThB9.2
<i>Cloud Technology in Simulation Studies: GPSS Cloud Project (I)</i> , pp. 637-641.	
Vlasov, Stanislav	Russian Acad. of Sciences
Deviatkov, Vladimir	Elina-Computers Ltd.
Devyatkov, Timur	Elina - Computer, Ltd
14:00-14:20	ThB9.3
<i>Dynamic Business Process Management Based on the Combined Control and Data Networks (I)</i> , pp. 642-647.	
Yatsutko, Aleksandra	Inst. of Control Sciences
Vykhovanets, Valeriy	Intitute of Control Science
14:20-14:40	ThB9.4
<i>Application of Decision Support System BPsim.DSS to Logistical Processes of Fuel Transportation Company (I)</i> , pp. 648-652.	
Aksyonov, Konstantin	Ural Federal Univ. named after the first President of Russi
Bykov, Eugene	Ural Federal Univ.
Smoliy, Elena	Ural Federal Univ.
Aksyonova, Olga	Ural Federal Univ.
Nevolina, Alena	Ural Federal Univ.
14:40-15:00	ThB9.5
<i>A System for Computer Simulation of Technological Processes (I)</i> , pp. 653-658.	
Rudometov, Sergey	Design Tech. Inst. of Digital Tech. of Siberian
Okolnishnikov, Victor	Design Tech. Inst. of Digital Tech. of Siberian
15:00-15:20	ThB9.6
<i>Planning and Bottleneck Analysis of Construction Enterprise Project Portfolio (I)</i> , pp. 659-663.	
Aksyonov, Konstantin	Ural Federal Univ. named after the first President of Russi
Bykov, Eugene	Ural Federal Univ.
Smoliy, Elena	Ural Federal Univ.
Aksyonova, Olga	Ural Federal Univ.
Wang, Kai	Ural Federal Univ.
ThC1	
Automotive Manufacturing & Supply Chain Management - 2 (Invited Session)	
Chair: Poler, Raul	Univ. Pol. de Valencia
Co-Chair: Meerkov, Semyon M.	Univ. of Michigan
16:00-16:20	ThC1.1
<i>A Sustainable Order Quantity Model under Uncertain Product Demand (I)</i> , pp. 664-669.	
Digiesi, Salvatore	Pol. of Bari
Mossa, Giorgio	Pol. di Bari
Mummolo, Giovanni	Pol. of Bari
16:20-16:40	ThC1.2
<i>Standardized Information Exchange in Automotive Distribution Processes (I)</i> , pp. 670-675.	
Werthmann, Dirk	BIBA – Bremer Inst. für Produktion und Logistik GmbH
Brandwein, Dennis	BIBA – Bremer Inst. für Produktion und Logistik GmbH
Ruthenbeck, Carmen	BIBA – Bremer Inst. für Produktion und Logistik GmbH

Scholz-Reiter, Bernd	Univ. of Bremen
16:40-17:00	ThC1.3
<i>Production Lead Time Problem: Formulation and Solution for Bernoulli Serial Lines (I)</i> , pp. 676-681.	
Meerkov, Semyon M.	Univ. of Michigan
Yan, Chao-Bo	Univ. of Michigan
17:00-17:20	ThC1.4
<i>Supply Chain Management As the Company Engine in Automotive Manufacturing (I)</i> , pp. 682-687.	
Ferriols, Francisco J.	Univ. Pol. de València
Mula, Josefa	Univ. Pol. de València
Díaz-Madroño, Manuel	Univ. Pol. de València
17:20-17:40	ThC1.5
<i>Enhancing Enterprise Resilience through Enterprise Collaboration (I)</i> , pp. 688-693.	
Andres, Beatriz	Univ. Pol. de València
Poler, Raul	Univ. Pol. de Valencia
17:40-18:00	ThC1.6
<i>Analysis of Order Promising Process in BTF Products with High Variability and Long Manufacturing Lead Times Application to a Machine-Tool Manufacturer (I)</i> , pp. 694-699.	
Saiz, Eduardo	IK4-IKERLAN
Castellano, Eduardo	IK4-IKERLAN
Besga, Juan Manuel	IK4-IKERLAN
Sanchis, Raquel	Univ. Pol. de Valencia
18:00-18:20	ThC1.7
<i>Definition of a Framework to Support Strategic Decisions to Improve Enterprise Resilience (I)</i> , pp. 700-705.	
Sanchis, Raquel	Univ. Pol. de Valencia
Poler, Raul	Univ. Pol. de Valencia
ThC2	Oak Hall (ITMO)
Coordinated Logistics and Supply Chain Optimization (Invited Session)	
Chair: Ivanov, Dmitry	Berlin School of Ec. and Law
Co-Chair: Jiang, Zhibin	Shanghai Jiao Tong Univ.
16:00-16:20	ThC2.1
<i>Dynamic Service Selection at Runtime for Service Supply Chain (I)</i> , pp. 706-711.	
Huang, Shuangxi	Tsinghua Univ.
Fan, Yushun	Tsinghua Univ.
Su, Wei	Tsinghua
Xi, Yu	Tsinghua
16:20-16:40	ThC2.2
<i>Optimal Scheduling Policies for a Production Service System with Two Items (I)</i> , pp. 712-717.	
Wang, Kangzhou	Shanghai Jiao Tong Univ.
Jiang, Zhibin	Shanghai Jiao Tong Univ.
Xie, Wenming	Shanghai Jiao Tong Univ.
16:40-17:00	ThC2.3
<i>A Contribution to the Reentrant Flow-Shop Scheduling Problem (I)</i> , pp. 718-723.	
Hinze, Richard	Tech. Univ. Dresden
Sackmann, Dirk	Hochschule Merseburg
Buscher, Udo	Tech. Univ. Dresden
Aust, Gerhard	Tech. Univ. Dresden
17:00-17:20	ThC2.4
<i>A Procedural Framework for Hybrid Decentralized Decision Problem Solving (I)</i> , pp. 724-729.	
Schönberger, Jörn	Univ. of Bremen
Kopfer, Herbert	Univ. of Bremen
17:20-17:40	ThC2.5
<i>Minimization of the Storage and the Transportation Costs in an Elementary Supply Chain with the Multiple Transporter Case (I)</i> , pp. 730-735.	
hammoudan, Zakaria	Univ. of Tech. of Belfort-Montbéliard (SeT/UTBM)
Grunder, Olivier	Univ. de Tech. de Belfort-Montbéliard
El-Moudni, A	UTBM

17:40-18:00	ThC2.6
<i>Dynamic Models for Green Logistic Networks Design</i> , pp. 736-741.	
Serrano, Christian	École Nationale d'Ingénieurs de Metz
Aggoune-Mtala, Wassila	Public Res. Centre Henri Tudor
Sauer, Nathalie	Paul Verlaine Univ. of Metz - France / INRIA Grand Est- COS
18:00-18:20	ThC2.7
<i>A MIP-Based Heuristic for the Stochastic Economic Lot Sizing Problem with Remanufacturing (I)</i> , pp. 742-747.	
Kilic, Onur A.	Hacettepe Univ.
ThC3	Aud.41 (ITMO)
Optimal Design of Production and Assembly Lines (Invited Session)	
Chair: Kovalyov, Mikhail Y.	United Inst. of Informatics Problems
Co-Chair: Amodeo, Lionel	UTT
16:00-16:20	ThC3.1
<i>Evaluating the Performance of Recombination Operators with Island Parallel Genetic Algorithms (I)</i> , pp. 748-753.	
Dokeroglu, Tansel	Middle East Tech. Univ.
Tosun, Umut	Middle East Tech. Univ.
Cosar, Ahmet	Middle East Tech. Univ.
16:20-16:40	ThC3.2
<i>The Additive Property in Long Line Optimization (I)</i> , pp. 754-759.	
Shi, Chuan	Massachusetts Inst. of Tech.
Gershwin, Stanley	Massachusetts Inst. of Tech.
16:40-17:00	ThC3.3
<i>Distributed Genetic Algorithm for Integrated Process Planning and Scheduling Based on Multi Agent System (I)</i> , pp. 760-765.	
Zhang, Luping	The Univ. of Hong Kong
Wong, T. N.	The Univ. of Hong Kong
17:00-17:20	ThC3.4
<i>Optimization of Multi-Tool Cutting Modes in Multi-Item Batch Manufacturing System</i> , pp. 766-771.	
Rozin, Boris	United Inst. of Informatics Problems
Levin, Genrikh	United Inst. of Informatics Problems of the National Academy
Dolgui, Alexandre	Ec. Nationale Supérieure des Mines de Saint-Etienne
17:20-17:40	ThC3.5
<i>Formulation of Multi-Level Workforce Skill Constraints in Assembly Line Balancing Models</i> , pp. 772-777.	
Koltai, Tamas	Budapest Univ. of Tech. and Ec.
17:40-18:00	ThC3.6
<i>A Transfer Line Design Problem with Setup Times and Costs</i> , pp. 778-783.	
Dolgui, Alexandre	Ec. Nationale Supérieure des Mines de Saint-Etienne
Kovalev, Sergey	Ec. Nationale Supérieure des Mines de Saint-Etienne
Kovalyov, Mikhail Y.	United Inst. of Informatics Problems
Nossack, Jenny	Univ. of Siegen
Pesch, Erwin	Univ. of Siegen
18:00-18:20	ThC3.7
<i>Extensions of the Unidirectional Flow Path Design Problem Solved by Efficient Metaheuristics (I)</i> , pp. 784-789.	
Rubaszewski, Julie	Univ. of Tech. of Troyes
Yalaoui, Alice	Univ. of Tech. of Troyes
Amodeo, Lionel	UTT
Fuchs, Sylvain	ANDRA
ThC4	Aud.51 (ITMO)
Robotics in Manufacturing (Regular Session)	
Chair: Pashkevich, Anatol	Ec. des Mines de Nantes
Co-Chair: Bobtsov, Alexey	Sainr Petersburg National Res. Univ. of ITMO
16:00-16:20	ThC4.1
<i>Modelling of the Gravity Compensators in Robotic Manufacturing Cells</i> , pp. 790-795.	
Klimchik, Alexandr	Ec. des Mines de Nantes
Wu, Yier	Ec. des Mines de Nantes

Caro, Stéphane	CNRS, IRCCYN
Dumas, Claire	Univ. of Nantes
Furet, Benoit	Univ. of Nantes
Pashkevich, Anatol	Ec. des Mines de Nantes
16:20-16:40	ThC4.2
<i>Robot Force/Torque Control in Assembly Tasks</i> , pp. 796-801.	
Winkler, Alexander	Chemnitz Univ. of Tech.
Suchý, Jozef	Chemnitz Univ. of Tech.
16:40-17:00	ThC4.3
<i>Efficiency Improvement of Measurement Pose Selection Techniques in Robot Calibration</i> , pp. 802-807.	
Wu, Yier	Ec. des Mines de Nantes
Klimchik, Alexandr	Ec. des Mines de Nantes
Pashkevich, Anatol	Ec. des Mines de Nantes
Caro, Stéphane	CNRS, IRCCYN
Furet, Benoit	Univ. of Nantes
17:00-17:20	ThC4.4
<i>Robust Algorithm for Calibration of Robotic Manipulator Model</i> , pp. 808-812.	
Klimchik, Alexandr	Ec. des Mines de Nantes
Wu, Yier	Ec. des Mines de Nantes
Abba, Gabriel	Ec. Nationale Supérieure des Arts et Métiers
Garnier, Sébastien	Univ. of Nantes
Furet, Benoit	Univ. of Nantes
Pashkevich, Anatol	Ec. des Mines de Nantes
17:20-17:40	ThC4.5
<i>Robot Joint Modeling and Parameter Identification Using the Clamping Method</i> , pp. 813-818.	
Lehmann, Christian	Brandenburg Univ. of Tech. Chair of Automation Tech.
Olofsson, Bjorn	Lund Univ.
Nilsson, Klas	Lund Univ.
Halbauer, Marcel	Brandenburg Univ. of Tech. Chair of Automation Tech.
Haage, Mathias	Lund Univ.
Robertsson, Anders	LTH, Lund Univ.
Sornmo, Olof	Lund Univ.
Berger, Ulrich	Brandenburg Univ. of Tech. Cottbus
17:40-18:00	ThC4.6
<i>Workpiece Placement Optimization in Robotic-Based Manufacturing</i> , pp. 819-824.	
Caro, Stéphane	CNRS, IRCCYN
Dumas, Claire	Univ. of Nantes
Garnier, Sébastien	Univ. of Nantes
Furet, Benoit	Univ. of Nantes
18:00-18:20	ThC4.7
<i>Quality Certification and Productivity Optimization in Robotic-Based Manufacturing</i> , pp. 825-830.	
Garnier, Sébastien	Univ. of Nantes
Dumas, Claire	Univ. of Nantes
Caro, Stéphane	CNRS, IRCCYN
Furet, Benoit	Univ. of Nantes
ThC5	Aud.52 (ITMO)
Balancing and Sequencing of Assembly and Machining Lines - 1 (Invited Session)	
Chair: Delorme, Xavier	Ec. Nationale Supérieure des Mines de Saint-Etienne
Co-Chair: Cohen, Yuval	The Open Univ. of Israel
16:00-16:20	ThC5.1
<i>Integrated Decision Making in Flow Line Balancing</i> , pp. 831-838.	
Battaïa, Olga	Ec. des Mines de Saint-Etienne
Delorme, Xavier	Ec. Nationale Supérieure des Mines de Saint-Etienne
Dolgui, Alexandre	Ec. Nationale Supérieure des Mines de Saint-Etienne
Grimaud, Frédéric	Ec. des Mines de Saint-Etienne
16:40-17:00	ThC5.3

<i>Extended Models for TSALBP with Ergonomic Risk Constraints (I)</i> , pp. 839-844.		
Bautista Valhondo, Joaquín		Univ. Pol. de Catalunya
Batalla García, Cristina		ETSEIB/EPSEB UPC
Alfaro Pozo, Rocío		ETSEIB/EPSEB UPC
Cano Pérez, Alberto		ETSEIB/EPSEB UPC
17:00-17:20		ThC5.4
<i>Assembly Line Balancing with Resource Dependent Task Times: An Application to Parallel Assembly Lines (I)</i> , pp. 845-850.		
Kara, Yakup		Selcuk Univ.
Atasagun, Yakup		Selcuk Univ.
17:20-17:40		ThC5.5
<i>On Capacity Planning for Multi-Stage Multi Model Production Lines with Parallel Machines (I)</i> , pp. 851-856.		
Cohen, Yuval		The Open Univ. of Israel
17:40-18:00		ThC5.6
<i>Cyclic Scheduling of Flexible Mixed Model Assembly Lines (I)</i> , pp. 857-862.		
Öztürk, Cemalettin		Izmir Univ. of Ec.
Tunali, Semra		Izmir Univ. of Ec.
Hnich, Brahim		Izmir Univ. of Ec.
Örnek, Arslan M.		Izmir Univ. of Ec.
18:00-18:20		ThC5.7
<i>Implementation of a Methodology for Consideration of Product Quality within Discrete Manufacturing</i> , pp. 863-868.		
Foehr, Matthias		Siemens AG
Jäger, Tobias		Siemens AG
Turrin, Claudio		Whirlpool Europe srl
Petralli, Pierluigi		Whirlpool Europe srl
Pagani, Arnaldo		Whirlpool Wurope srl
Leitão, Paulo		Pol. Inst. of Bragança
ThC6		Aud.31 (ITMO)
Theory and Applications of Ahp and Anp for Decision Making in Manufacturing Systems – 2 (Invited Session)		
Chair: Bruno, Giuseppe		Univ. of Naples Federico II
Co-Chair: Rahman, Shams		RMIT Univ.
16:00-16:20		ThC6.1
<i>Factors Affecting RFID Adoption in Chinese Manufacturing Firms: An Investigation Using AHP (I)</i> , pp. 869-874.		
Rahman, Shams		RMIT Univ.
Yang, Laura		Shanghai Inst. of Foreign Trade
Waters, Stephen		Univ. of Western Sydney
16:20-16:40		ThC6.2
<i>The Value-Analytic Hierarchy Process: A Lean Multi Criteria Decision Support Method (I)</i> , pp. 875-880.		
Compagno, Lucio		Univ. of Catania
Trapani, Natalia		Univ. of Catania
D'Urso, Diego		Univ. of Catania
Latora, Antonio Giuseppe		Univ. of Catania
16:40-17:00		ThC6.3
<i>Hybrid Supplier Selection Methodologies: Problems and Perspectives (I)</i> , pp. 881-886.		
Bruno, Giuseppe		Univ. of Naples Federico II
Esposito, Emilio		Univ. of Naples
Genovese, Andrea		Univ. of Sheffield
Rosa Rossella, Longobardo		Univ. of Naples "Federico II"
Passaro, Renato		Univ. of Naples "Parthenope"
17:20-17:40		ThC6.5
<i>Process Efficiency of Multistage Production Systems</i> , pp. 887-892.		
Lozano, Sebastián		Univ. of Seville
17:40-18:00		ThC6.6
<i>An Approach to Analysis of Expert Estimation Validity in Cognitive Mapping</i> , pp. 893-898.		
Abramova, Nina		Inst. of Control Sciences of the Russian Acad. of Sciences
Telitsyna, Tatyana		Inst. of Control Sciences V. A. Trapeznikov Acad. of Scien
18:00-18:20		ThC6.7

Measuring the Utilization Index of Advanced Manufacturing Technologies: A Case Study (I), pp. 899-904.

Singh, Harwinder
Kumar, Raman

Guru Nanak Dev Engineering Coll. Ludhiana
Chandigarh Univ. Gharaur, Punjab

ThC7	Aud.61 (ITMO)
Control of Complex Systems under Extremal Random Risks (Invited Session)	
Chair: Markovich, Natalia	V.A.Trapeznikov Inst. of Control Sciences
Co-Chair: Gomes, Ivette	CEAUL and DEIO, FCUL, Univ. de Lisboa
16:00-16:20	ThC7.1
<i>Robust Mirror Decent Algorithm for a Multi-Armed Bandit Governed by a Stationary Finite Markov Chain (I)</i> , pp. 905-909.	
Nazin, Alexander V.	Inst. of Control Sciences RAS
Miller, Boris	Monash Univ.
16:20-16:40	ThC7.2
<i>Nonparametric Gamma Kernel Estimates of Density Derivatives on Positive Semiaxis (I)</i> , pp. 910-915.	
Dobrovidov, Alexander V.	Inst. of Control Sciences, RAS
Markovich, Liubov	Inst. of Control Sciences of Russian Acad. of Sciences
16:40-17:00	ThC7.3
<i>Reliability Control of Complex Systems through Penultimate Approximations (I)</i> , pp. 916-921.	
Gomes, Ivette	CEAUL and DEIO, FCUL, Univ. de Lisboa
Reis, Paula	CEAUL and Escola Superior de Tecnologia de Set'ubal
Canto e Castro, Luisa	CEAUL and DEIO, FCUL, Univ. de Lisboa
Dias, Sandra	CM--UTAD, Univ. de Tr'as-os-Montes e Alto Douro, Vila R
17:00-17:20	ThC7.4
<i>Stochastic Inferences of Packet Transmission in Peer-To-Peer Overlay Networks (I)</i> , pp. 922-927.	
Markovich, Natalia	V.A.Trapeznikov Inst. of Control Sciences
17:20-17:40	ThC7.5
<i>Transformations in Hazard Rate Estimation for Heavy-Tailed Data (I)</i> , pp. 928-932.	
Bagkavos, Dimitrios	Accenture
17:40-18:00	ThC7.6
<i>On Relationship between Score Functions and Extremal Index (I)</i> , pp. 933-938.	
Markovich, Natalia	V.A.Trapeznikov Inst. of Control Sciences
Stehlik, Milan	Johannes Kepler Univ. Linz
18:00-18:20	ThC7.7
<i>Delusions in System Identification: Professor Pashchenko's School</i> , pp. 939-944.	
Chernyshov, Kirill	V.A. Trapeznikov Inst. of Control Sciences
ThC8	Aud.42 (ITMO)
Artificial Intelligence and Machine Learning Approaches to Industrial Automation and Decision Making (Invited Session)	
Chair: Takahashi, Kazuhiko	Doshisha Univ.
Co-Chair: Avdeeva, Zinaida	V.A. Trapeznikov Inst. of Control Sciences of Russian Acad. of Sciences
16:00-16:20	ThC8.1
<i>Improving the Estimation of Mean Flow Stress within Hot Rolling of Steel by Means of Different Artificial Intelligence Techniques (I)</i> , pp. 945-950.	
Vannucci, Marco	Scuola Superiore Sant'Anna
Colla, Valentina	Scuola Superiore Sant'Anna
Dimatteo, Antonella	Scuola Superiore Sant'Anna
16:20-16:40	ThC8.2
<i>Ontology Mapping Approach for Fault Classification in Multi-Agent Systems (I)</i> , pp. 951-956.	
Jirkovsky, Vaclav	Czech Tech. Univ.
Obitko, Marek	Czech Tech. Univ.
16:40-17:00	ThC8.3
<i>Time Series Forecasting: Applications to the Upstream Oil and Gas Supply Chain (I)</i> , pp. 957-962.	
Sheremetov, Leonid	Mexican Petroleum Inst.
González-Sánchez, Arturo	Mexican Petroleum Inst.
López-Yáñez, Itzamá	Mexican Petroleum Inst.
Ponomarev, Andrew	St.Petersburg Inst. for Informatics and Automation of the Ru

17:00-17:20	ThC8.4
<i>Diagnosing of the Problem Situation in Manufacturing System Development Based on Cognitive Map (I)</i> , pp. 963-968.	
Avdeeva, Zinaida	V.A. Trapeznikov Inst. of Control Sciences of Russian Acad.
Kovriga, Svetlana	V.A. Trapeznikov Inst. of Control Sciences of the Russian Ac
17:20-17:40	ThC8.5
<i>Remarks on an Adaptive-Type Direct Controller Using Quantum Neural Network with Qubit Neurons</i> , pp. 969-974.	
Takahashi, Kazuhiko	Doshisha Univ.
Kizaki, Hiroko	Doshisha Univ.
Hashimoto, Masafumi	Doshisha Univ.
17:40-18:00	ThC8.6
<i>Soft Computing Based on LabVIEW</i> , pp. 975-981.	
Ponce, Pedro	ITESM-CCM
Molina, Arturo	Tecnologico de Monterrey
MacCleery, Brian	National Inst.
18:00-18:20	ThC8.7
<i>A Switching Q-Learning Approach Focusing on Partial States</i> , pp. 982-986.	
Matsumoto, Keinosuke	Osaka Prefecture Univ.
Ikimi, Taisuke	Osaka Prefecture Univ.
Mori, Naoki	Osaka Prefecture Univ.
ThC9	Aud.32 (ITMO)
Advanced Industrial Engineering (Invited Session)	
Chair: Sihn, Wilfried	Vienna Univ. of Tech. Fraunhofer Austria Res. GmbH
Co-Chair: Sandkuhl, Kurt	The Univ. of Rostock
16:00-16:20	ThC9.1
<i>Supporting Regulatory Compliance by Pattern Detection in Enterprise Models: Approach and Application (I)</i> , pp. 987-992.	
Dunkel, Kalle Aid	Rostock Univ.
Sandkuhl, Kurt	The Univ. of Rostock
Wißotzki, Matthias	Rostock Univ.
16:20-16:40	ThC9.2
<i>Systematic and Continuous Improvement of Value Streams (I)</i> , pp. 993-997.	
Kuhlang, Peter	Vienna Univ. of Tech.
Hempfen, Sabine	TU Dortmund Univ.
Edtmayr, Thomas	Vienna Univ. of Tech.
Deuse, Jochen	TU Dortmund Univ.
Sihn, Wilfried	Vienna Univ. of Tech. Fraunhofer Austria Res. GmbH
16:40-17:00	ThC9.3
<i>Renaissance of Group Technology: Reducing Variability to Match Lean Production Prerequisites (I)</i> , pp. 998-1003.	
Deuse, Jochen	TU Dortmund Univ.
Konrad, Benedikt	TU Dortmund Univ. Inst. of Production Systems
Bohnen, Fabian	TU Dortmund Univ. Inst. of Production Systems
17:00-17:20	ThC9.4
<i>PLM Ontology Exploitation through Inference and Statistical Analysis: Case Study for LCC</i> , pp. 1004-1008.	
Milicic, Ana	EPFL Univ. LICP Lab.
Perdikakis, Apostolos	EPFL Univ. LICP Lab.
El Kadiri, Soumaya	EPFL
Kiritsis, Dimitris	EPFL
17:20-17:40	ThC9.5
<i>Changeable Production Systems by the Use of a Holistic Modularization: Considering of Technology, Organization and Staff (I)</i> , pp. 1009-1014.	
Meier, Horst	Chair of Production Systems, Ruhr-Univ. Bochum
Schröder, Stefan	Chair of Production Systems, Ruhr-Univ. Bochum
Kreggenfeld, Niklas	Chair of Production Systems, Ruhr-Univ. Bochum
17:40-18:00	ThC9.6
<i>Industrial Symbiosis Optimization Control Model for the Exchanges of the Material/energy Flows in an Industrial Production Park (I)</i> , pp. 1015-1020.	
GU, Chao	Univ. du Havre

LEVENEUR, Sébastien	Inst. national des sciences appliquées (INSA) de Rouen
ESTEL, Lionel	Inst. national des sciences appliquées (INSA) de Rouen
YASSINE, Adnan	Univ. du Havre
18:00-18:20	ThC9.7
<i>Modelling of Social Relationships and Human Communication Processes within Collaborative Manufacturing Networks (I)</i> , pp. 1021-1026.	
Schütze, Jens	Chemnitz Univ. of Tech.
Baum, Heiko	Chemnitz Univ. of Tech.
ThI1	Steve Jobs' Atrium (ITMO)
Information Control and Cybersecurity in Manufacturing Systems (Poster/Interactive Session)	
Chair: Promyslov, Vitaly	V.A. Trapeznikov Inst. of Control Sciences
Co-Chair: Jharko, Elena	V.A. Trapeznikov Inst. of Control Sciences
10:00-12:00	ThI1.1
<i>Automated Electric Energy Consumption Forecasting System Based on Decision Tree Approach</i> , pp. 1027-1032.	
Shcherbakov, Maxim	Volgograd State Tech. Univ.
Kamaev, Valeriy	VSTU
Shcherbakova, Nataliya	VSTU
10:00-12:00	ThI1.2
<i>The Construction of Homogenous Structured Programmed Transmission Medium</i> , pp. 1033-1037.	
Putilin, Alexander	Moscow State Open Univ. (Pol. Inst.)
10:00-12:00	ThI1.3
<i>Digitally Controlled Assets Subjected to Cyberattacks: Definitions and "Cyberproof" Criteria Based on the Analysis of Explicit and Hidden Functions</i> , pp. 1038-1042.	
Promyslov, Vitaly	V.A. Trapeznikov Inst. of Control Sciences
Poletikin, Alexey	Inst. of Control Sciences
10:00-12:00	ThI1.4
<i>Solving Five Instances of the Artificial Ant Problem with Ant Colony Optimization</i> , pp. 1043-1048.	
Chivilikhin, Daniil	St. Petersburg National Res. Univ. of InformationTechno
Ulyantsev, Vladimir	St. Petersburg National Res. Univ. of Information Tech.
Shalyto, Anatoly	St. Petersburg National Res. Univ. of InformationTechno
10:00-12:00	ThI1.5
<i>Test-Based Induction of Finite-State Machines with Continuous Output Actions</i> , pp. 1049-1054.	
Buzhinsky, Igor	Saint Petersburg National Res. Univ. of Information Tec
Ulyantsev, Vladimir	St. Petersburg National Res. Univ. of Information Tech.
Shalyto, Anatoly	St. Petersburg National Res. Univ. of InformationTechno
10:00-12:00	ThI1.6
<i>Physical Human–robot Interaction in the Handshaking Case: Learning of Rhythmicity Using Oscillators Neurons</i> , pp. 1055-1060.	
Melnyk, Artem	Donetsk National Tech. Univ.
Khomenko, Viacheslav	Donetsk National Tech. Univ.
Borissenko, Volodymyr	Donetsk National Tech. Univ.
henaff, Patrick	Univ. of Cergy-Pontoise
10:00-12:00	ThI1.7
<i>Effect Driven Evolution: Information Systems Architecture for Large Dynamic Organizations</i> , pp. 1061-1066.	
Znamenskij, Sergej Vitaljevich	Ailamazyan Program System Inst. of RAS
10:00-12:00	ThI1.8
<i>Multi-Agent Technologies in Stability Control of Multimodal Large-Scale Energy Network</i> , pp. 1067-1072.	
Bakhtadze, Natalia	V.A. Trapeznikov Inst. of Control Sciences, Russian Acad.
Yadykin, Igor	V.A. Trapeznikov Inst. of Control Sciences, Russian Acad.
Lototsky, Vladimir	V.A. Trapeznikov Inst. of Control Sciences
Maximov, Eugene	Inst. of Control Sciences of Russian Acad. ofSciences
Vorobjev, Georgy	V.A. Trapeznikov Inst. of Control Sciences
10:00-12:00	ThI1.9
<i>Take-Grant Hierarchical Model for Digital Control System</i> , pp. 1073-1078.	
Korshunova, Olga	Inst. of Control Sciences
Promyslov, Vitaly	V.A. Trapeznikov Inst. of Control Sciences
10:00-12:00	ThI1.10

<i>Development of Models and Methods of Optimal Control in the Production of Sheet Rolled Metal</i> , pp. 1079-1084.		
Genkin, Arkady		Inst. of Control Sciences
Nikulina, Irina		Inst. of Control Sciences
10:00-12:00		Th11.11
<i>Calculation of Technical and Economical Indices for the "Kudankulam" NPP</i> , pp. 1085-1090.		
Jharko, Elena		V.A. Trapeznikov Inst. of Control Sciences
10:00-12:00		Th11.12
<i>An Example of Industrial System Databases Security Assurance During the Maintenance Stage</i> , pp. 1091-1095.		
Baybulatov, Artur		RAS ICS
10:00-12:00		Th11.13
<i>A Transformation Model to Express Business Rules from Natural Language to Formal Execution: An Application to Nuclear Power Plant</i> , pp. 1096-1101.		
Fortineau, Virginie		Arts et Métiers ParisTech
Paviot, Thomas		Arts et Métiers ParisTech
Guissé, Abdoulaye		LIPN, Univ. Paris 13
LAMOURI, Samir		Arts et Métiers ParisTech
10:00-12:00		Th11.14
<i>Quality Assurance for Nuclear Power Plant Control System Software</i> , pp. 1102-1107.		
Jharko, Elena		V.A. Trapeznikov Inst. of Control Sciences
10:00-12:00		Th11.15
<i>Convergent Decision Support System with Genetic Algorithms and Cognitive Simulation</i> , pp. 1108-1113.		
Raikov, Alexander		Inst. of Control Sciences RAS
Panfilov, Sergey		Artificial Intelligence department of Moscow State Inst. of
10:00-12:00		Th11.16
<i>Structured Design of Interactive Electronic Technical Manuals Based on Virtual Reality Means</i> , pp. 1114-1118.		
Artamonov, Evgeniy		Inst. for Control Sciences of Russian Acad. of Sciences
Balabanov, Andrey		Inst. for Control Sciences of Russian Acad. of Sciences
Romakin, Vladimir		Inst. for Control Sciences of Russian Acad. of Sciences
10:00-12:00		Th11.17
<i>A Software Tool for Simulation of Motion Control Systems for Maritime Objects</i> , pp. 1119-1122.		
Dorri, Manucher		Inst. of Control Sciences RAS
Roschin, Alexander		Inst. of Control Sciences RAS
10:00-12:00		Th11.18
<i>Automated Dispatch Control; Problems and Details of Modeling</i> , pp. 1123-1127.		
Grigoriev, Leonid		Russian State Univ. of Oil and Gas
Kostogryzov, Andrey		RIAMC
Tupysev, Anton		Gubkin Russian State Univ. of Oil and Gas
10:00-12:00		Th11.19
<i>Intelligent System for Financial Time Series Prediction and Identification of Periods of Speculative Growth on the Financial Market</i> , pp. 1128-1133.		
Ivanyuk, Vera		V.A. Trapeznikov Inst. of Control Sciences, 65 Profsoyuznaya
Tsvirkun, Anatoly		Inst. of Control Sciences
10:00-12:00		Th11.20
<i>A Model for a Multidimensional Analysis of the Supply Chain Indicators in the Context of Sustainable Development</i> , pp. 1134-1139.		
Cyplik, Piotr		Poznan School of Logistics
Adamczak, Michal		Poznan School of Logistics
Hadas, Lukasz		Poznan School of Logistics
10:00-12:00		Th11.21
<i>Decision Model for Sustainable and Agile Resources Management</i> , pp. 1140-1145.		
Stachowiak, Agnieszka		Poznan Univ. of Tech.
Hadas, Lukasz		Poznan Univ. of Tech.
Cyplik, Piotr		Poznan Univ. of Tech.
Fertsch, Marek		Poznan Univ. of Tech.
10:00-12:00		Th11.22
<i>The Role and Contribution of Maintenance in Sustainable Manufacturing</i> , pp. 1146-1151.		
Jasiulewicz-Kaczmarek, Malgorzata		Poznan Univ. of Tech.

ThN1		Steve Jobs' Atrium (ITMO)
Advanced Modeling, Algorithmic, and Simulation Tools for Manufacturing Applications (Poster/Interactive Session)		
Chair: Chernyshov, Kirill	V.A. Trapeznikov Inst. of Control Sciences	
Co-Chair: Aristova, Natalia	V.A. Trapeznikov ICS RAS	
13:20-15:20		ThN1.1
<i>Production Line Performance by Using Queuing Model</i> , pp. 1152-1157.		
Marsudi, Muhammad	King Abdulaziz Univ.	
Shafeek, Hani	King Abdulaziz Univ.	
13:20-15:20		ThN1.2
<i>The Projection Method for Reaching Consensus in Discrete-Time Multiagent Systems</i> , pp. 1158-1163.		
Chebotarev, Pavel	Inst. of Control Sciences of the Russian Acad. of Sciences	
Aghev, Rafiq	Inst. of Control Sciences of the Russian Acad. of Sciences	
13:20-15:20		ThN1.3
<i>Multi-Agent Approach to Design of Multimodal Intelligent Immune System for Smart Grid</i> , pp. 1164-1169.		
Bakhtadze, Natalia	V.A. Trapeznikov Inst. of Control Sciences, Russian Acad.	
Yadykin, Igor	V.A. Trapeznikov Inst. of Control Sciences, Russian Acad.	
Lototsky, Vladimir	V.A. Trapeznikov Inst. of Control Sciences	
Maximov, Eugene	Inst. of Control Sciences of Russian Acad. of Sciences	
Sakrutina, Ekaterina	V.A. Trapeznikov Inst. of Control Sciences, Russian Acad.	
13:20-15:20		ThN1.4
<i>Nonlinear Models of Oil Frontal Displacement and Shock Waves</i> , pp. 1170-1175.		
Akhmetzhanov, Atlas	Inst. of Control Sciences, Russian Acad. of Sciences	
Kushner, Alexei	Inst. of Control Sciences of the Russian Acad. of Sciences	
Lychagin, Valentin	Tromsø Univ.	
13:20-15:20		ThN1.5
<i>Efficient Mechanism for Resource Allocation with Quadratic Payments and Its Realization Via an Iterative Bargaining Process</i> , pp. 1176-1181.		
Korgin, Nikolay	V.A. Trapeznikov Inst. of Control Sciences	
13:20-15:20		ThN1.6
<i>A Sliding Mode Algorithm for Non-Stationary Parameters Identification</i> , pp. 1182-1187.		
Kochetkov, Sergey	Istitute of Control Sciences	
13:20-15:20		ThN1.7
<i>State Observers for the Control Systems of Induction Motor Drives</i> , pp. 1188-1193.		
Utkin, Victor	ICS	
Krasnova, Svetlana	ICS	
Utkin, Anton	ICS	
13:20-15:20		ThN1.8
<i>Estimation of Ensemble Group Stability in Large-Scale Socio-Economic Systems</i> , pp. 1194-1199.		
Kleparskiy, Vadim	V.A. Trapeznikov Inst. of Control Sciences	
13:20-15:20		ThN1.9
<i>Modern Control Theory Applied to Inventory Control for a Manufacturing System</i> , pp. 1200-1205.		
Azarskov, Valerii	National Aviation Univ.	
Skurikhin, Vladimir	Int. Centre of Inform. Tech. & Systems, Inst. of Cybe	
Zhiteckii, Leonid	Inst. of Cybernetics	
Lypoi, Roman	National Aviation Univ.	
13:20-15:20		ThN1.10
<i>Multilevel Parallelization of Simulation and Control Problems of Gas Fields Development</i> , pp. 1206-1211.		
Akhmetzhanov, Atlas	Inst. of Control Sciences, Russian Acad. of Sciences	
Grebennik, Oleg	Inst. of Control Sciences of Russian Acad. of Sciences	
Salnikov, Anton	Inst. of Control Sciences, Russian Acad. of Sciences	
13:20-15:20		ThN1.12
<i>Macroeconomic Disequilibrium and Stimulation of Economic Growth</i> , pp. 1212-1217.		
Nizhegorodtsev, Robert	V.A. Trapeznikov Inst. of Control Sciences RAS	
Goridko, Nina	Inst. for Control Studies RAS	
13:20-15:20		ThN1.13
<i>The Design of High Precise Discrete Control Systems for Linear Plants and the Approximate Inversion Problem</i> , pp. 1218-1223.		
Bunich, Alexander	V.A. Trapeznikov Inst. of Control Sciences	

Nikulina, Irina	Inst. of Control Sciences
13:20-15:20	ThN1.14
<i>Analysis of Identifiability of Nonlinear Plants with Weakly Formalized Structure</i> , pp. 1224-1229.	
Mozharovskii, Igor	Inst. of automation and control processes Far Easternbranch
Torgashov, Andrey	Inst. for Automation and Control Processes FEB RAS
Digo, Galina	Inst. of automation and control processes Far Eastern branch
Digo, Natalia	Inst. of automation and control processes Far Eastern branch
13:20-15:20	ThN1.15
<i>Simulation of Discrete Manufacturer with an End Product Feedback</i> , pp. 1230-1233.	
Chadeev, Valentin M.	V.A. Trapeznikov Inst. of Control Sciences, Russian Acad.
Aristova, Natalia	V.A. Trapeznikov ICS RAS
13:20-15:20	ThN1.17
<i>On Solving Optimization Problems with Inexact Data</i> , pp. 1234-1239.	
Latipova, Alina Taihovna	South Ural State Univ.
13:20-15:20	ThN1.18
<i>Analytical Evaluation of Sustainable Competitive Advantage</i> , pp. 1240-1243.	
Takala, Josu	Univ. of Vaasa
Liu, Yang	Univ. of Vaasa
Feng, Bin	Vaasa Univ. of Applied Sciences
Yang, Wenshan	Univ. of Vaasa
13:20-15:20	ThN1.19
<i>Development of Intelligent Identification Models and Their Applications to Predict the Submarine Dynamics by Use of Computer Simulation Complexes</i> , pp. 1244-1249.	
Bakhtadze, Natalia	V.A. Trapeznikov Inst. of Control Sciences, Russian Acad.
Pavlov, Boris	V.A. Trapeznikov Inst. of Control Sciences, Russian Acad.
Sakrutina, Ekaterina	V.A. Trapeznikov Inst. of Control Sciences, Russian Acad.
13:20-15:20	ThN1.20
<i>Simulation Technologies for Long-Term Target Planning and In-Flight Management of the Spacecraft Control Systems</i> , pp. 1250-1255.	
Somov, Sergey	Samara State Tech. Univ.
Butyrin, Sergey	Samara State Tech. Univ.
Somova, Tatyana	Samara State Tech. Univ.
13:20-15:20	ThN1.21
<i>Dial-A-Ride Problem with Time Windows, Transshipments, and Dynamic Transfer Points</i> , pp. 1256-1261.	
Deleplanque, Samuel	LIMOS, UMR CNRS 6158, Bat. ISIMA, Blaise Pascal Univ. - Cle
Quilliot, Alain	CNRS and Blaise Pascal Univ.
13:20-15:20	ThN1.22
<i>A Multi-Machine Scheduling Problem with Global Non Idling Constraint</i> , pp. 1262-1267.	
Deleplanque, Samuel	LIMOS, UMR CNRS 6158, Bat. ISIMA, Blaise Pascal Univ. - Cle
Quilliot, Alain	CNRS and Blaise Pascal Univ.

Technical Program for Friday June 21, 2013

FrA1	Aud.11 (ITMO)
Analysis of Supply and Production Systems - 1 (Invited Session)	
Chair: Georgiadis, Michael	Univ. of Western Macedonia
Co-Chair: Colledani, Marcello	Pol. di Milano
10:00-10:20	FrA1.1
<i>A Bernoulli Model of Multi-Product Manufacturing Systems (I)</i> , pp. 1268-1273.	
Zhao, Cong	Univ. of Wisconsin - Madison
Li, Jingshan	Univ. of Wisconsin - Madison
10:20-10:40	FrA1.2
<i>Integration of Sale and Leaseback in the Optimal Design of Multi-Echelon Supply Chain Networks (I)</i> , pp. 1274-1279.	
Longinidis, Pantelis	Univ. of Western Macedonia
Georgiadis, Michael	Univ. of Western Macedonia
10:40-11:00	FrA1.3
<i>Scheduling Energy Cogeneration Units under Energy Demand Uncertainty (I)</i> , pp. 1280-1285.	
Kopanos, Georgios M.	Imperial Coll. London
Georgiadis, Michael	Aristotle Univ. of Thessaloniki
Pistikopoulos, Efstratios N.	Imperial Coll.
11:00-11:20	FrA1.4
<i>Optimal Disposition of Returns Based on Inaccurate Quality Assessment Procedures (I)</i> , pp. 1286-1291.	
Nenes, George	Univ. of Western Macedonia
Panagiotidou, Sofia	Aristotle Univ. of Thessaloniki
Tagaras, George	Aristotle Univ. of Thessaloniki
Zikopoulos, Christos	Aristotle Univ. of Thessaloniki
11:20-11:40	FrA1.5
<i>Recovery Planning with Stochastic Lot-Processing Times (I)</i> , pp. 1292-1297.	
Zikopoulos, Christos	Aristotle Univ. of Thessaloniki
11:40-12:00	FrA1.6
<i>Analysis of a Three Machine-One Buffer Merge System with Quality and Operational Failures (I)</i> , pp. 1298-1303.	
Maria Koteoglou, Msc.	Aristotle Univ. of Thessaloniki, Department of Ec.
Alexandros Diamantidis, Dr.	Aristotle Univ. of Thessaloniki, Department of Ec.
FrA2	
Oak Hall (ITMO)	
Towards Modeling, Management, Control of Sensing and Green Enterprise As Complex Adaptive System of Systems (Invited Session)	
Chair: Dumitrache, Ioan	Univ. Pol. of Bucharest
Co-Chair: Jardim-Goncalves, Ricardo	UNINOVA - Inst. de Desenvolvimento de Novas Tecnologias
10:00-10:20	FrA2.1
<i>Sustainable Interoperability of Sensing Enterprise (I)</i> , pp. 1304-1309.	
Danila, Cristian	Univ. Pol. of Bucharest
Stanescu, Aurelian M.	Univ. Pol. of Bucharest
Jardim-Goncalves, Ricardo	UNINOVA - Inst. de Desenvolvimento de Novas Tecnologias
Agostinho, Carlos	UNINOVA
Florea, Adina magda	Univ. Pol. of Bucharest
Serbanescu, Cristina	Univ. Pol. din Bucuresti
10:20-10:40	FrA2.2
<i>The Enterprise of Future As a Cyber-Physical System (I)</i> , pp. 1310-1315.	
Dumitrache, Ioan	Univ. Pol. of Bucharest
Caramihai, Simona Iuliana	Pol. Univ. of Bucharest
10:40-11:00	FrA2.3
<i>Quality Management in Sensing Enterprise (I)</i> , pp. 1316-1321.	
Stegaru, Georgiana	Univ. Pol. of Bucharest
Moiescu, Mihnea Alexandru	Univ. Pol. Bucharest
Sacala, Ioan Stefan	Univ. Pol. Bucharest
Costetchi, Natalia	Univ. Pol. of Bucharest
11:00-11:20	FrA2.4

Standard Blueprints for Interoperability in Factories of the Future (FoF) (I), pp. 1322-1327.

Ferreira, Jose
Beca, Miguel Ferro de
Agostinho, Carlos
Nunez, Maria Jose
Jardim-Goncalves, Ricardo

Faculdade de Ciências e Tecnologia, FCT, Univ. Lisb
Uninova
UNINOVA
ADIMA
UNINOVA - Inst. de Desenvolvimento de Novas Tecnologias

11:20-11:40 FrA2.5

Intelligent Negotiation Mechanism for Supporting the Interoperability within the Sensing Enterprise (I), pp. 1328-1333.

Stanescu, Aurelian M.
Cretan, Adina
Coutinho, Carlos
Jardim-Goncalves, Ricardo

Univ. Pol. of Bucharest
"Nicolae Titulescu" Univ. of Bucharest
Faculdade de Ciencias e Tecnologia, Univ. Nova de Lisboa,
UNINOVA - Inst. de Desenvolvimento de Novas Tecnologias

11:40-12:00 FrA2.6

Interoperability Scenarios in Serious Games Ecosystems: The Impact on FInES (I), pp. 1334-1339.

Stanescu, Ioana Andreea
Stefan, Antoniu
Filip, Florin Gheorghe
Kittl, Christian
Lim, Theodore

Advanced Tech. Systems
Advanced Tech. Systems
Romanian Acad.
evolaris next level GmbH
Heriot-Watt Univ.

FrA3 Aud.41 (ITMO)

Scheduling and Transportation Systems - 1 (Invited Session)

Chair: Lazarev, Alexander
Co-Chair: Werner, Frank

Inst. of Control Sciences, Russian Acad. of Sciences
Otto-von-Guericke-Univ. Magdeburg

10:00-10:20 FrA3.1

A Graphical Approach for Solving Single Machine Scheduling Problems Approximately (I), pp. 1340-1345.

Gafarov, Evgeny R.
Dolgui, Alexandre
Lazarev, Alexander
Werner, Frank

Inst. of Control Sciences of the Russian Acad. of Sciences
Ec. Nationale Supérieure des Mines de Saint-Etienne
Inst. of Control Sciences, Russian Acad. of Sciences
Otto-von-Guericke-Univ. Magdeburg

10:20-10:40 FrA3.2

A Bicriteria Problem of Synthesizing Optimal Object Flow Service Policies (I), pp. 1346-1351.

Kuimova, Anastasia S.
Kogan, Dmitriy I.
Fedosenko, Yuriy S.

Volga State Acad. of Water Transport
Moscow state Univ. Inst. making and computer science
Volga State Acad. of Water Transport

10:40-11:00 FrA3.3

Solving a Job-Shop Scheduling Problem by an Adaptive Algorithm Based on Learning (I), pp. 1352-1357.

Sotskov, Yuri
Gholami, Omid
Werner, Frank

Acad. of Sciences of Belarus
National Acad. of Sciences of Belarus
Otto-von-Guericke-Univ. Magdeburg

11:00-11:20 FrA3.4

Optimal Management of Shuttle Robots in a High-Rise Warehouse Using Timed Automata Models (I), pp. 1358-1363.

Subbiah, Subanatarajan
Schoppmeyer, Christian
De La Fuente Valdès, José Manuel
Sonntag, Christian
Engell, Sebastian

Tech. Univ. Dortmund
Process Dynamics and Operations Group, Department
of Biochemical
M+W Group,
Tech. Univ. Dortmund
TU Dortmund

11:20-11:40 FrA3.5

Makespan Minimization for a Two-Machine Scheduling Problem with a Single Server (I), pp. 1364-1369.

Hasani, Keramat
Kravchenko, Svetalana
Werner, Frank

Islamic Azad Univ. Branch
Acad. of Sciences of Belarus
Otto-von-Guericke-Univ. Magdeburg

11:40-12:00 FrA3.6

A Multi-Agent Distributed Framework for Collaborative Transportation Planning (I), pp. 1370-1375.

MEMON, Muhammad Ali
Archimede, Bernard

LGP-ENIT
Univ. de Toulouse, Lab. GeniedeProduction, Ec. Nati

FrA4	Aud.51 (ITMO)
Maintenance & Reliability (Invited Session)	
Chair: REZG, Nidhal	Metz Univ.
Co-Chair: Vladova, Alla	Orenburg State Univ.
10:00-10:20	FrA4.1
<i>Jointly Optimal Preventive Maintenance under Spare Parts Order Strategy (I)</i> , pp. 1376-1380.	
BA, Kader	Univ. de Lorraine
Erray, Walid	ArcelorMittal Maizières Res. Res. SA
Dellagi, Sofiene	Univ. de Metz
REZG, Nidhal	Metz Univ.
10:20-10:40	FrA4.2
<i>Multigraph Models of Gas-Transport Objects States and Identification Method with Intelligent Processing of Information (I)</i> , pp. 1381-1386.	
Vladova, Alla	Orenburg State Univ.
Vladov, Jury	Orenburg State Univ.
10:40-11:00	FrA4.3
<i>A Bi-Criteria Flow-Shop Scheduling with Preventive Maintenance (I)</i> , pp. 1387-1392.	
Hnaïen, Faïcel	Univ. of Tech. of Troyes
Yalaoui, Farouk	Univ. of Tech. of Troyes
11:00-11:20	FrA4.4
<i>Application of Integrated Human Error Identification Techniques for Chemicals Cylinder Change Task (I)</i> , pp. 1393-1398.	
Cheng, Ching-Min	National Tsing Hua Univ.
Hwang, Sheue-Ling	National Tsing-Hua Univ.
LIN, I-KAI	Department of Occupational Safety and Health, Chung Shan Medical
11:20-11:40	FrA4.5
<i>Spare Part Returns in Stochastic Deteriorating Manufacturing System under a Condition-Based Maintenance Policy: Simulation-Based Genetic Algorithm Approach (I)</i> , pp. 1399-1404.	
Boudhar, Hamza	Lorraine Univ.
DAHANE, Mohammed	ENIM
REZG, Nidhal	Metz Univ.
11:40-12:00	FrA4.6
<i>Condition Based Maintenance Applied to Reduce Unavailability of Machines in Flexible Job Shop Scheduling Problem (I)</i> , pp. 1405-1410.	
ZHENG, Yahong	Ec. Centrale de Lille, LAGIS
mesghouni, Khaled	Ec. Centrale de Lille
Collart-Dutilleul, Simon	IFSTAR/ESTAS
FrA5	Aud.52 (ITMO)
Design and Reconfiguration of Manufacturing Systems (Regular Session)	
Chair: Koren, Yoram	Univ. of Michigan
Co-Chair: Stolletz, Raik	Univ. of Mannheim
10:00-10:20	FrA5.1
<i>Design Principles of Scalable Reconfigurable Manufacturing Systems</i> , pp. 1411-1416.	
Wang, Wencai	the Univ. of Michigan
Koren, Yoram	Univ. of Michigan
10:20-10:40	FrA5.2
<i>Reconfigurable Micro-Machine Tool Design for Desktop Machining Micro-Factories</i> , pp. 1417-1422.	
Pérez, Roberto	Tech. de Monterrey
Davila-Ramirez, Oscar	ITESM
Molina, Arturo	Tecnologico de Monterrey
Ramírez-Cadena, Miguel	Tecnológico de Monterrey (ITESM)
10:40-11:00	FrA5.3
<i>Evaluation Pattern for Self-Configuring Communication Systems Leveraging Plug&Play Field Device Integration</i> , pp. 1423-1428.	
Hodek, Stefan	German Res. Center for Artificial Intelligence
Langfinger, Michael	German Res. Center for Artificial Intelligence (DFKI)
Schlick, Jochen	German Res. Center for Artificial Intelligence, DFKI

11:00-11:20	FrA5.4
<i>Geometric Environment Modeling System</i> , pp. 1429-1434.	
Dietrich, Andre	Univ. of Magdeburg
Zug, Sebastian	Otto-von-Guericke-Univ. Magdeburg
Kaiser, Jörg	Otto-von-Guericke-Univ. Magdeburg
11:20-11:40	FrA5.5
<i>Buffer Allocation Using Exact Linear Programming Formulations and Sampling Approaches</i> , pp. 1435-1440.	
Stolletz, Raik	Univ. of Mannheim
Weiss, Sophie	Univ. of Mannheim
11:40-12:00	FrA5.6
<i>An Integrated Engineering Concept for the Model-Based Development of Service-Oriented Control Procedures</i> , pp. 1441-1446.	
Ollinger, Lisa	German Res. Center for Artificial Intelligence
Zuehlke, Detlef	German Res. Center for Artificial Intelligence
FrA6	Aud.31 (ITMO)
Product Lifecycle Management and Product Design Support Systems - 1 (Invited Session)	
Chair: Lentès, Joachim	Fraunhofer IAO
Co-Chair: Ukovich, Walter	Univ. of Trieste
10:00-10:20	FrA6.1
<i>The Exploitation of an Ontology-Based Model of PLM from a SME Point of View (I)</i> , pp. 1447-1452.	
Bruno, Giulia	Pol. di Torino
VILLA, Agostino	Pol. di Torino
10:20-10:40	FrA6.2
<i>Generic Colored Petri Nets Model for the Makespan Optimization in Flexible Manufacturing Systems (I)</i> , pp. 1453-1458.	
ZAIRI, Sajeh	LIP2 Lab.
Madhbi, Zeineb	LIP2 Lab.
Zouari, belhassen	FST Tunis
10:40-11:00	FrA6.3
<i>A Simulation Model for Product Lifecycle Management (I)</i> , pp. 1459-1464.	
Boschian, Valentina	Univ. of Trieste
Fanti, Maria Pia	Pol. of Bari
Iacobellis, Giorgio	Pol. di Bari
Ukovich, Walter	Univ. of Trieste
Augenti, Noemi	Pol. of Bari
11:00-11:20	FrA6.4
<i>Possibilities and Challenges of an Integrated Development Using a Combined SysML-Model and Corresponding Domain Specific Models (I)</i> , pp. 1465-1470.	
Kernschmidt, Konstantin	Tech. Univ. München
Barbieri, Giacomo	Univ. degli studi di Modena e Reggio Emilia
Fantuzzi, Cesare	Univ. of Modena and Reggio Emilia
Vogel-Heuser, Birgit	Tech. Univ. of Munich
11:20-11:40	FrA6.5
<i>An Engineering Prototype Workflow Management System (I)</i> , pp. 1471-1476.	
Daniels, Matthew	Univ. of Limerick
Ghadimi, Pezhman	Univ. of Limerick
Lanning, Ivor	Univ. of Limerick
Heavey, Cathal	Univ. of Limerick
Ryan, Alan	Univ. of Limerick
Southern, Mark	Univ. of Limerick
11:40-12:00	FrA6.6
<i>Parallel Machining of Multiple Parts on Rotary Transfer Machines with Turrets (I)</i> , pp. 1477-1482.	
Battaïa, Olga	Ec. des Mines de Saint-Etienne
Dolgui, Alexandre	Ec. Nationale Supérieure des Mines de Saint-Etienne
Guschinsky, Nikolai	United Inst. of Informatics Problems of the National Academy of Sciences of the Republic of Armenia
Levin, Genrikh	United Inst. of Informatics Problems of the National Academy of Sciences of the Republic of Armenia

Advanced Control of Complex Dynamical Plants - 1 (Invited Session)

Chair: Mitrishkin, Yuri	V.A. Trapeznikov Inst. of Control Sciences
Co-Chair: Sakamoto, Noboru	Nagoya Univ.
10:00-10:20	FrA7.1
<i>Modeling and Control of Temperature Field of the Secondary Cooling Zone in Continuous Casting of Steel As Distributed Parameter System (I)</i> , pp. 1483-1488.	
Ondrejko, Karol	Faculty of Mechanical Engineering
Bucek, Pavol	Slovak Univ. of Tech.
Noga, Pavol	Slovak Univ. of Tech.
Tkac, Lukas	Slovak Univ. of Tech.
Hulko, Gabriel	Slovak Univ. of Tech.
10:20-10:40	FrA7.2
<i>Suboptimal Control of Nonlinear Object: Problem of Keeping Tabs on Reference Trajectory (I)</i> , pp. 1489-1493.	
Afanas'ev, Valery	Moscow Inst. of Electronics and Mathematics
10:40-11:00	FrA7.3
<i>Identification of Parameters and Restoring of State Vector of Dynamical Plant (I)</i> , pp. 1494-1499.	
Kopysov, Oleg Yu.	DesCartes Science Center
11:00-11:20	FrA7.4
<i>Toroidal Current Control in the Problem of Plasma Equilibrium Evolution (I)</i> , pp. 1500-1505.	
Zaitsev, Fedor	Moscow State Univ.
11:20-11:40	FrA7.5
<i>A Recent Progress in the Optimal Control Design under Various Constraints (I)</i> , pp. 1506-1511.	
Sakamoto, Noboru	Nagoya Univ.
11:40-12:00	FrA7.6
<i>Output Feedback H-Infinity Control Design for Synchronizing of the Main Drives of the Pipe-Rolling Mill (I)</i> , pp. 1512-1517.	
Chestnov, Vladimir	V.A. Trapeznikov Inst. of Control Science of Russian Acad.
Zatsepilova, Zhanna	Elektrostal Heavy Machine Building Plant, JSC (EZTM JSC)

FrA8

Aud.42 (ITMO)

Modeling, Simulation, Control and Monitoring of Manufacturing Processes – 2 (Regular Session)

Chair: Bakhtadze, Natalia	V.A. Trapeznikov Inst. of Control Sciences, Russian Acad. of Sciences
Co-Chair: HERAUD, NICOLAS	Univ. de Corse
10:00-10:20	FrA8.1
<i>Evaluating Sensor Placement on Extended System with Polynomial Symbolic Calculus</i> , pp. 1518-1523.	
wailly, Olivier	Univ. of Corsica
HERAUD, NICOLAS	Univ. de Corse
SAMBATRA, Eric Jean Roy	Inst. Supérieur de Tech. D'Antsirana
10:20-10:40	FrA8.2
<i>Neural Networks Models for Wear Patterns Recognition of Single-Point Dresser</i> , pp. 1524-1529.	
Martins, Cesar Henrique	Electrical Engineering Department, UNESP, Bauru
Aguiar, Paulo Roberto	Univ. Estadual Paulista - UNESP
Frech Junior, Arminio	Univ. Estadual Paulista - UNESP
Bianchi, Eduardo Carlos	Univ. Estadual Paulista - UNESP
10:40-11:00	FrA8.3
<i>Condition Monitoring at Rolling Mills with Data-Driven Residual-Based Fault Detection</i> , pp. 1530-1535.	
Serdio, Francisco	Johannes Kepler Univ.
Lughofer, Edwin	Johannes Kepler Univ. Linz
Buchegger, Thomas	Austrian Competence Center of Mechatronics
Pichler, Kurt	Linz Center of Mechatronics GmbH
Efendic, Hajrudin	Siemens VAI Metals Tech. GmbH & Co Linz
11:00-11:20	FrA8.4
<i>Evaluation of Minimal Data Size by Using Entropy, in a HMM Maintenance Manufacturing Use</i> , pp. 1536-1541.	
Roblès, Bernard	Univ. Orleans, Prisme
Avila-Gomez, Manuel	Univ. Orleans, Prisme
Duculty, Florent	Univ. Orleans, Prisme
Vrignat, Pascal	Univ. Orleans, Prisme

Bégot, Stephane	Univ. Orleans, Prisme
Kratz, Frederic	ENSIB
11:20-11:40	FrA8.5
<i>MSPCA with KDE Thresholding to Support QC in Electrical Motors Production Line</i> , pp. 1542-1547.	
Ferracuti, Francesco	Univ. Pol. delle Marche
Giantomassi, Andrea	Univ. Pol. delle Marche
Longhi, Sauro	Univ. Pol. delle Marche
11:40-12:00	FrA8.6
<i>Developing a Universal Numeric Control Based-On Linux Real-Time Software</i> , pp. 1548-1553.	
Davila-Ramirez, Oscar	ITESM
Pérez, Roberto	Tech. de Monterrey
Fernando, Garduno	Tech. de Monterrey
Ramírez-Cadena, Miguel	Tecnológico de Monterrey (ITESM)
Molina, Arturo	Tecnologico de Monterrey
FrA9	Aud.32 (ITMO)
Manufacturing Simulation (Invited Session)	
Chair: Korytkowski, Przemyslaw	West Pomeranian Univ. of Tech. in Szczecin
Co-Chair: Abramova, Nina	Inst. of Control Sciences of the Russian Acad. of Sciences
10:00-10:20	FrA9.1
<i>Multivariate Simulation Analysis of Production Leveling (heijunka) - a Case Study (I)</i> , pp. 1554-1559.	
Korytkowski, Przemyslaw	West Pomeranian Univ. of Tech. in Szczecin
Wisniewski, Tomasz	West Pomeranian Univ. of Tech. in Szczecin
Rymaszewski, Szymon	West Pomeranian Univ. of Tech. in Szczecin
10:20-10:40	FrA9.2
<i>Control of NURBS-Based Surface Error Factor Using a Manufacturing Cost Optimization in Rapid Prototyping Process (I)</i> , pp. 1560-1565.	
Sikder, Snahungshu	UOIT
Barari, Ahmad	Univ. of Ontario Inst. of Tech.
Kishawy, Hossam	UOIT
10:40-11:00	FrA9.3
<i>Petri-Net Modelling for Batch Production (I)</i> , pp. 1566-1571.	
Gradisar, Dejan	Inst.
Music, Gasper	Univ. of Ljubljana
11:00-11:20	FrA9.4
<i>Rand Model Designer in Manufacturing Applications (I)</i> , pp. 1572-1577.	
Senichenkov, Yuri Borisovitch	Saint Petersburg State Pol. Univ.
Kolesov, Yuri Borisovitch	CP_Center
Inikhov, Dmitry Borisovitch	MvSoft
11:40-12:00	FrA9.6
<i>Modeling the Competence Acquiring Process in Higher Education Institution (I)</i> , pp. 1578-1583.	
Malinowska, Magdalena	Univ. of Szczecin
Kusztina, Emma	West Pomeranian Univ. of Tech.
Zaikin, Oleg	Warsaw School of Computer Science
Reng, Lars	Aalborg Univ.
Busk Kofoed, Lise	Aalborg Univ.
Zylawski, Andrzej	Warsaw School of Computer Science
FrB1	Aud.11 (ITMO)
Supply Network Optimization and Control - 1 (Invited Session)	
Chair: Ivanov, Dmitry	Berlin School of Ec. and Law
Co-Chair: Hartl, Richard F.	Univ. of Vienna
13:20-13:40	FrB1.1
<i>Control of Supply Networks by Robust Optimal Control and Using Observers (I)</i> , pp. 1584-1589.	
van Zwieten, Dirk	Eindhoven Univ. of Tech.
Lefeber, Erjen	Eindhoven Univ. of Tech.
Adan, I.J.B.F.	Eindhoven Univ. of Tech.

Rooda, J.E.	Eindhoven Univ. of Tech.
13:40-14:00	FrB1.2
<i>Tabu Search for a Preemptive Scheduling Problem with Job Incompatibilities</i> , pp. 1590-1595.	
Thevenin, Simon	Univ. of Geneva
Zufferey, Nicolas	Univ. of Geneva
Potvin, Jean-Yves	Univ. of Montreal
14:00-14:20	FrB1.3
<i>Robust Model Predictive Control of Constrained Supply Networks Via Invariant Ellipsoids Technique (I)</i> , pp. 1596-1601.	
Lyubchik, Leonid	National Tech. Univ. KhPI
Dorofieiev, Yuri	National Tech. Univ. "kharkiv Pol. Inst.
Nikulchenko, Artem	National Tech. Univ. "kharkiv Pol. Inst.
14:20-14:40	FrB1.4
<i>Game-Theoretic Model on a Cognitive Map and Its Tolerance to Errors in Input Data (I)</i> , pp. 1602-1607.	
Kulivets, Sergei	V.A. Trapeznikov Inst. of Control Sciences RAS
14:40-15:00	FrB1.5
<i>A Centralized Model Predictive Control Strategy for Dynamic Supply Chain Management (I)</i> , pp. 1608-1613.	
FU, Dongfei	Ghent Univ.
Ionescu, Clara	Ghent Univ.
Aghezzaf, El-Houssaine	Ghent Univ.
De Keyser, Robin M.C.	Ghent Univ.
15:00-15:20	FrB1.6
<i>Designing Supply Chain with Robustness Analysis (I)</i> , pp. 1614-1619.	
Artsiomchyk, Yuliya	Belarusian State Univ. of Informatics and Radioelectronics
Zhivitskaya, Helena	BSUIR (Belarusian State Univ. of Informatics and Radioelect
FrB2	Oak Hall (ITMO)
Analysis of Supply and Production Systems - 2 (Invited Session)	
Chair: Tagaras, George	Aristotle Univ. of Thessaloniki
Co-Chair: Georgiadis, Michael	Univ. of Western Macedonia
13:20-13:40	FrB2.1
<i>Manufacturing-Remanufacturing Failure-Prone Systems under Random Demands (I)</i> , pp. 1620-1625.	
Polotski, Vladimir	Ec. de Tech. Superieure
Ouaret, Samir	Ec. de Tech. Superieure
Kenné, Jean-Pierre	École de Tech. Supérieure
gharbi, ali	École de Tech. Supérieure
13:40-14:00	FrB2.2
<i>A Comparison of Three Search Algorithms for Solving the Buffer Allocation Problem in Reliable Production Lines (I)</i> , pp. 1626-1631.	
Demir, Leyla	Pamukkale Univ.
Alexandros Diamantidis, Dr.	Aristotle Univ. of Thessaloniki, Department of Ec.
Eliiyi, Deniz	Izmir Univ. of Ec.
O'Kelly, Michael	Waterford Inst. of Tech.
Papadopoulos, Chrissoleon	Aristotle Univ. of Thessaloniki
Tsadiras, Athanasios	Aristotle Univ. of Thessaloniki
Tunali, Semra	Izmir Univ. of Ec.
14:00-14:20	FrB2.3
<i>Resource Availability Optimization for Green Courier Service (I)</i> , pp. 1632-1637.	
Platis, Agapios	Univ. of the Aegean
Koutras, Vasilis	Univ. of the Aegean
Salagaras, Christoforos	Univ. of the Aegean
14:20-14:40	FrB2.4
<i>Performance Evaluation of Two-Stage Buffered Production Systems with Discrete General Markovian Machines (I)</i> , pp. 1638-1643.	
Colledani, Marcello	Pol. di Milano
14:40-15:00	FrB2.5
<i>A Decomposition Method for the Analysis of Long Buffered Production Systems with Discrete General Markovian Machines (I)</i> , pp. 1644-1649.	
Colledani, Marcello	Pol. di Milano
15:00-15:20	FrB2.6

FrB3		Aud.41 (ITMO)
Scheduling and Transportation Systems - 2 (Invited Session)		
Chair: Werner, Frank		Otto-von-Guericke-Univ. Magdeburg
Co-Chair: Lazarev, Alexander		Inst. of Control Sciences, Russian Acad. of Sciences
13:20-13:40		FrB3.1
<i>Optimal Search and Detection of Clustered Hidden Targets under Imperfect Inspections (I)</i> , pp. 1656-1661.		
Levner, Eugene		Ashkelon Acad. Coll.
Kriheli, Boris		Ashkelon Acad. Coll.
13:40-14:00		FrB3.2
<i>Schedule for One Locomotive in a 3 Station Circuit (I)</i> , pp. 1662-1665.		
Lazarev, Alexander		Inst. of Control Sciences, Russian Acad. of Sciences
Musatova, Elena		Inst. of Control Sciences V. A. Trapeznikov Acad.
Khusnullin, Nail		V.A.Trapeznikov Inst. of Control Sciences of Russian Acad.
14:00-14:20		FrB3.3
<i>Agent-Based Model Predictive Control for the Holding Problem in a Metro System (I)</i> , pp. 1666-1671.		
Reyes Leiva, Francisco		Pontificia Univ. Catolica de Chile
Cipriano, Aldo		Pontificia Univ. Catolica de Chile
14:20-14:40		FrB3.4
<i>Scheduling Partially Ordered UET Tasks on Dedicated Machines (I)</i> , pp. 1672-1677.		
Zinder, Yakov		Univ. of Tech. Sydney
Memar, Julia		Univ. of Tech. Sydney
Singh, Gaurav		CSIRO
14:40-15:00		FrB3.5
<i>Optimization of Matching and Scheduling on Heterogeneous CPU/FPGA Architectures</i> , pp. 1678-1683.		
Souissi, Omar		Univ. of Valenciennes
Duvivier, David		Univ. of Valenciennes
Ben Atitallah, Rabie		Univ. of Valenciennes
Artiba, Abdelhakim		Univ. of Valenciennes
FrB4		Aud.51 (ITMO)
Forecasting and Inventory Control (Invited Session)		
Chair: Koo, Pyung-Hoi		Pukyong National Univ.
Co-Chair: DUCQ, Yves		Bordeaux Univ.
13:20-13:40		FrB4.1
<i>On Controller Design for the Inventory Regulation Problem in Production Systems (I)</i> , pp. 1684-1689.		
ABBOU, Rosa		IRRCyN - Univ. IUT de Nantes
MOUSSAOUI, CHARIFA		Inst. de Recherche en Communications et Cybernétique de Nantes
Loiseau, Jean Jacques		Inst. de Recherche en Communication et en Cybernétique de Nantes
13:40-14:00		FrB4.2
<i>A Review on Control Strategies of Batch Processing Machines in Semiconductor Manufacturing</i> , pp. 1690-1695.		
Koo, Pyung-Hoi		Pukyong National Univ.
Moon, Dug Hee		Changwon National Univ.
14:00-14:20		FrB4.3
<i>The Impact of Temporal Aggregation on Demand Forecasting of ARMA(1, 1) Process: Theoretical Analysis (I)</i> , pp. 1696-1701.		
ROSTAMI TABAR, Bahman		Univ. of Bordeaux1
BABAI, Mohamed Zied		BEM Bordeaux Management School
Syntetos, Aris		Cardiff Univ.
DUCQ, Yves		Bordeaux Univ.
14:20-14:40		FrB4.4
<i>A New Up-To Level Inventory Model for Deteriorating Products with Non-Linear Holding Cost (I)</i> , pp. 1702-1707.		
Sazvar, Zeinab		Department of Industrial Engineering, Sharif University of Technology
Rekik, Yacine		EMLYON Business School
Akbari Jokar, Mohammad Reza		Department of Industrial Engineering, Sharif Univ. of Tech.

14:40-15:00 FrB4.5

1913-2013: *The EOQ Theory and Next Steps towards Sustainability*, pp. 1708-1713.

Andriolo, Alessandro Univ. of Padua
Battini, Daria Univ. of Padua
Gamberi, Mauro Univ. of Padua
Sgarbossa, Fabio Univ. of Padua
Persona, Alessandro Univ. of Padua

FrB5 Aud.52 (ITMO)

Balancing and Sequencing of Assembly and Machining Lines - 2 (Invited Session)

Chair: Falkenauer, Emanuel Optimal Design,
Co-Chair: Delorme, Xavier Ec. Nationale Supérieure des Mines de Saint-Etienne

13:20-13:40 FrB5.1

Balancing Mixed-Model Assembly Lines in Real World Complex Workstations (I), pp. 1714-1719.

Zeltzer, Luiza Ghent Univ.
Limère, Veronique Ghent Univ.
Aghezzaf, El-Houssaine Ghent Univ.
Van Landeghem, Hendrik Ghent Univ.

13:40-14:00 FrB5.2

Idle Times Analysis in Two-Sided Assembly Line Balancing Problem (I), pp. 1720-1725.

Grzechca, Waldemar The Silesian Univ. of Tech.

14:00-14:20 FrB5.3

Stable Optimal Line Balances with a Fixed Set of the Working Stations (I), pp. 1726-1731.

Sotskov, Yuri Acad. of Sciences of Belarus
Zatsiupa, Aksana United Inst. of Informatics Problems
Dolgui, Alexandre Ec. Nationale Supérieure des Mines de Saint-Etienne

14:20-14:40 FrB5.4

Real-World Line Balancing of Very Large Products (I), pp. 1732-1737.

Falkenauer, Emanuel Optimal Design,

14:40-15:00 FrB5.5

A Workshop Scheduling and Optimization Method Based on Multi-Process Workflow Simulation, pp. 1738-1743.

Liu, Yi Tsinghua Univ.
Fan, Yushun Tsinghua Univ.
Liu, Bojun Tsinghua Univ.

15:00-15:20 FrB5.6

Cell Design and Loading with Alternative Routing in Cellular Reconfigurable Manufacturing Systems, pp. 1744-1749.

Eguia, Ignacio Univ. OF SEVILLE
Lozano, Sebastián Univ. of Seville
Racero, Jesus Univ. OF SEVILLE
Guerrero, Fernando Univ. OF SEVILLE

FrB6 Aud.31 (ITMO)

Product Lifecycle Management and Product Design Support Systems - 2 (Invited Session)

Chair: Lentjes, Joachim Fraunhofer IAO
Co-Chair: Daniels, Matthew Univ. of Limerick

13:20-13:40 FrB6.1

Product Lifecycle Management Requirements Gathering: Industrial Pilot Cases (I), pp. 1750-1755.

Daniels, Matthew Univ. of Limerick
Lanning, Ivor Univ. of Limerick
Ghadimi, Pezhman Univ. of Limerick
Heavey, Cathal Univ. of Limerick
Ryan, Alan Univ. of Limerick
Southern, Mark Univ. of Limerick

13:40-14:00 FrB6.2

Group Decision Support and Social Software Techniques for PLM Decision Making (I), pp. 1756-1761.

Pasley, Robert Charles	Univ. of Nottingham
MacCarthy, Bart	Univ. of Nottingham
14:00-14:20	FrB6.3
<i>Fostering PLM Implementation in SMEs: Modelling and Managing Verification Processes (I)</i> , pp. 1762-1767.	
Sauza Bedolla, Joel	Pol. di Torino
Ricci, Francesco	Pol. di Torino
Martinez Gomez, Javier Mauricio	Univ. Industrial de Santander
Chiabert, Paolo	Pol. di Torino
14:20-14:40	FrB6.4
<i>A Platform Providing Information Provision in Engineering (I)</i> , pp. 1768-1773.	
Lentes, Joachim	Fraunhofer IAO
Eckstein, Holger	Fraunhofer Inst. for Industrial Engineering IAO, Stuttgart, G
Zimmermann, Nikolas	Univ. of Stuttgart IAT, Stuttgart, Germany
14:40-15:00	FrB6.5
<i>Optimal Product Lifecycles with Similar Durations (I)</i> , pp. 1774-1779.	
Sadeh, Arik	HIT Holon Inst. of Tech.
15:00-15:20	FrB6.6
<i>Information System and Systems Thinking: A Compulsory Marriage? (I)</i> , pp. 1780-1785.	
Antonelli, Dario	Pol. di Torino
Chiabert, Paolo	Pol. di Torino
Romagnoli, Vittorio	Pol. di Torino
FrB7	Aud.61 (ITMO)
Advanced Control of Complex Dynamical Plants - 2 (Invited Session)	
Chair: Mitrishkin, Yuri	V.A. Trapeznikov Inst. of Control Sciences
Co-Chair: Iftar, Altug	Anadolu Univ.
13:20-13:40	FrB7.1
<i>Plasma Vertical Position, Shape, and Current Control in T-15 Tokamak (I)</i> , pp. 1786-1791.	
Mitrishkin, Yuri	V.A. Trapeznikov Inst. of Control Sciences
Kartcev, Nikolai	V.A. Trapeznikov Inst. of Control Sciences of the Russian Ac
Zenckov, Semjon	Inst. of Control Sciences V. A. Trapeznikov Acad. of Scien
13:40-14:00	FrB7.2
<i>Typical Controllers Adjustment for Multivariable Objects of Industrial Automation (I)</i> , pp. 1792-1797.	
Yakovis, Leonid	Saint-Petersburg State Pol. Univ.
Sporyagin, Kirill	Sysauto
14:00-14:20	FrB7.3
<i>Self-Tuning PID-I Controller with a New Algorithm of Tuning of Test Signal (I)</i> , pp. 1798-1803.	
Alexandrov, A. G.	Intitute of Control Science, RAS
Palenov, Maxim	Intitute of Control Science, RAS
14:20-14:40	FrB7.4
<i>Package "Automatica": New Opportunities (I)</i> , pp. 1804-1809.	
Alexandrov, A. G.	Intitute of Control Science, RAS
Shatov, Dmitriy	Inst. of Control Sciences RAS
15:00-15:20	FrB7.6
<i>Directional Change Issues in Lqg Control with Actuator Failure (I)</i> , pp. 1810-1814.	
horla, dariusz	Poznan Univ. of Tech.
FrB8	Aud.42 (ITMO)
Probabilistic and Statistical Models in Industrial Control and Logistics (Invited Session)	
Chair: Mandel, Alexander Solomonovich	Trapeznikov Inst. of Control Sciences of RussianAcademy
Co-Chair: Dorofeyuk, Julia	Insitute of Control Sciences of RAS
13:20-13:40	FrB8.1
<i>Demand-Wise Closed-Loop Inventory Control Models (I)</i> , pp. 1815-1819.	
Mandel, Alexander Solomonovich	Trapeznikov Inst. of Control Sciences of RussianAcademy
13:40-14:00	FrB8.2
<i>Transformation of the Structure and Parameters of a Shaping Filter into Confidence Intervals for Correlation Function Estimate (I)</i> , pp.	

1820-1825.	aung phyo winn, phyo Serdyuk, Olga Aleksandrovna Trojanovskiy, Vladimir Mikhailovich	MIET National Res. Univ. of Electronic Tech. National Res. Univ. of Electronic Tech.
14:00-14:20		FrB8.3
<i>The Expert-Analytical Forecasting Model in the Problem of Railway Track Facilities Control (I)</i> , pp. 1826-1831.		
	Dorofeyuk, Julia Dorofeyuk, Alexander Pokrovskaya, Irina	Insitute of Control Sciences of RAS Insitute of Control Sciences of RAS ICS RAS
14:20-14:40		FrB8.4
<i>Diagnostics of Data Outliers Using Subspace Identification (I)</i> , pp. 1832-1837.		
	ALMutawa, Jaafar	King Fahd Univ. of Petroleum & Minerals
14:40-15:00		FrB8.5
<i>Optimization Model of Routing-And-Searching Process Performed by Unmanned Aerial Vehicles in Special Target-Detection Operations</i> , pp. 1838-1842.		
	Kriheli, Boris Levner, Eugene Spivak, Alexander	Ashkelon Acad. Coll. Ashkelon Acad. Coll. Holon Inst. of Tech.
15:00-15:20		FrB8.6
<i>Combining Knowledge Modeling and Machine Learning for Alarm Root Cause Analysis</i> , pp. 1843-1848.		
	Abele, Lisa Anic, Maja Gutmann, Tim Folmer, Jens Kleinstauber, Martin Vogel-Heuser, Birgit	Tech. Univ. München Tech. Univ. München Tech. Univ. of Munich Tech. Univ. München, Faculty of MechanicalEngineering Tech. Univ. München Tech. Univ. of Munich
FrB9		Aud.32 (ITMO)
Simulation in Control Applications (Regular Session)		
	Chair: Su, Chun-Yi Co-Chair: Moraru, Sorin-Aurel	Concordia Univ. Univ. "Transilvania" Brasov
13:20-13:40		FrB9.1
<i>Prescribed Adaptive Control of a Class of Nonlinear System Preceded by Actuators with Hysteresis</i> , pp. 1849-1854.		
	Li, Zhi Feng, Ying Liu, Sining Su, Chun-Yi	Concordia Univ. South China Univ. of Tech. Concordia Univ. Concordia Univ.
13:40-14:00		FrB9.2
<i>Command-Control-Monitoring of a Dual-Axis Tracking Photovoltaic Platform (I)</i> , pp. 1855-1860.		
	Badea, Milian Moraru, Sorin-Aurel Visa, Ion Burduhos, Bogdan Gabriel Comsit, Mihai	Transilvania Univ. of Brasov Univ. "Transilvania" Brasov Transilvania Univ. of Brasov Transilvania Univ. of Brasov Transilvania Univ. of Brasov
14:00-14:20		FrB9.3
<i>Study of the Effect of Coating Parameters and Substrates on 3D Surface Roughness in Diamond-Like-Carbon Coating Process (I)</i> , pp. 1861-1866.		
	Mordo, Sergio Popravko, Valery Barari, Ahmad	UOIT Intellectual Alliance Inc. Univ. of Ontario Inst. of Tech.
14:20-14:40		FrB9.4
<i>Dynamic Positioning System for Nonlinear MIMO Plants and Surface Robotic Vessel</i> , pp. 1867-1872.		
	Pyrkin, Anton Bobtsov, Alexey Kolyubin, Sergey Surov, Maksim Vedyakov, Alexey Feskov, Alexey	Saint Petersburg National Res. Univ. of Information Tec Sainr Petersburg National Res. Univ. of ITMO St. Petersburg NRU ITMO Saint-Petersburg State Univ. of InformationTechnologies Mec Saint Petersburg National Res. Univ. of Information Tec Saint-Petersburg National Res. Univirity of Information Tehn

Vlasov, Serge	SPb NRU ITMO
Krasnov, Aleksandr	Saint Petersburg National Res. Univ. of Information Tec
Borisov, Oleg	Saint Petersburg National Res. Univ. of Information Tec
Gromov, Vladislav	Saint Petersburg National Res. Univ. of Information Tec
14:40-15:00	FrB9.5
<i>Simple Output Stabilization Approach for Robotic Systems</i> , pp. 1873-1878.	
Pyrkin, Anton	Saint Petersburg National Res. Univ. of Information Tec
Bobtsov, Alexey	Sainr Petersburg National Res. Univ. of ITMO
Kolyubin, Sergey	St. Petersburg NRU ITMO
Surov, Maksim	Saint-Petersburg State Univ. of InformationTechnologies Mec
Shavetov, Sergei	Saint-Petersburg state Univ. of informatiotechnologies, me
Borisov, Oleg	Saint Petersburg National Res. Univ. of Information Tec
Gromov, Vladislav	Saint Petersburg National Res. Univ. of Information Tec
15:00-15:20	FrB9.6
<i>Formal Models of the Scenario-Indicator Approach in the Study of Security Problems in Railway Transport</i> , pp. 1879-1883.	
Kulba, Vladimir	Inst. of Control Sciences of Russian Acad. of
Somov, Dmitry	Inst. of Control Sciences of Russian Acad. ofSciences
Somov, Andrey	Inst. of Control Sciences of Russian Acad. ofSciences
FrC1	Aud.11 (ITMO)
Automotive Manufacturing & Supply Chain Management - 3 (Invited Session)	
Chair: Gusikhin, Oleg	Ford Motor Company
Co-Chair: Heinecke, Georg	Siemens AG Corp. Tech. ETH Zurich
16:00-16:20	FrC1.1
<i>Dynamic Modeling of Operator Overload Conditions in Mixed Model Automotive Assembly (I)</i> , pp. 1884-1889.	
Gusikhin, Oleg	Ford Motor Company
Jin, Xiaoning	Department of Industrial & Operations Engineering, Univ. of
Klampfl, Erica	Ford Motor Company
Reich, Daniel	Ford Motor Company
Visintainer, Randal	Ford Motor Company
16:20-16:40	FrC1.2
<i>Modeling Quality Propagation in Automotive Paint Shops: An Application Study (I)</i> , pp. 1890-1895.	
Ju, Feng	Univ. of Wisconsin - Madison
Li, Jingshan	Univ. of Wisconsin - Madison
Xiao, Guoxian	General Motors Corp.
Arinez, Jorge	General Motors Res. & Development Center
16:40-17:00	FrC1.3
<i>Optimal Break and Job Rotation Schedules of High Repetitive – Low Load Manual Tasks in Assembly Lines: An OCRA – Based Approach (I)</i> , pp. 1896-1901.	
Romano, V.A.	Pol. di Bari
Boenzi, Francesco	Pol. di Bari
Digiesi, Salvatore	Pol. of Bari
Mossa, Giorgio	Pol. di Bari
Mummolo, Giovanni	Pol. of Bari
17:00-17:20	FrC1.4
<i>Advanced Supply Chain Information for Rule-Based Sequence Adaptions on a Mixed-Model Assembly Line with Unreliable Just-In-Sequence Deliveries (I)</i> , pp. 1902-1907.	
Heinecke, Georg	Siemens AG Corp. Tech. ETH Zurich
Lamparter, Steffen	Siemens AG
Lepratti, Raffaello	Siemens AG
Kunz, Andreas	ETH Zurich
17:20-17:40	FrC1.5
<i>Hybrid Procedure Based on Bounded Dynamic Programming and Linear Programming for Solving a Variant of the MMSP-W (I)</i> , pp. 1908-1913.	
Bautista Valhondo, Joaquín	Univ. Pol. de Catalunya
Cano Pérez, Alberto	ETSEIB/EPSEB UPC
Alfaro Pozo, Rocio	ETSEIB/EPSEB UPC
Batalla García, Cristina	ETSEIB/EPSEB UPC

17:40-18:00 FrC1.6

Alternative Refilling Policies for an Assembly Line Managed by Kanbans (I), pp. 1914-1919.

Gamberini, Rita	Univ. of Modena and Reggio Emilia
Meli, Matteo	Univ. of Modena and Reggio Emilia
Galloni, Luca	Univ. of Modena and Reggio Emilia
Rimini, Bianca	Univ. di Modena e Reggio Emilia
Lolli, Francesco	Univ. of Modena and Reggio Emilia

FrC2 Oak Hall (ITMO)

Supply Network Optimization and Control - 2 (Invited Session)

Chair: Sokolov, Boris	SPIIRAS
Co-Chair: Huang, George Q.	The Univ. of Hong Kong

16:00-16:20 FrC2.1

Structure Dynamics Control-Based Integration of Aggregate Distribution and Dynamic Transportation Planning (I), pp. 1920-1925.

Ivanov, Dmitry	Berlin School of Ec. and Law
Sokolov, Boris	SPIIRAS
Hartl, Richard F.	Univ. of Vienna
Pavlov, Alexander	SPIIRAS

16:20-16:40 FrC2.2

Application of Control Theoretic Tools to Supply Chain Disruptions Management (I), pp. 1926-1931.

Ivanov, Dmitry	Berlin School of Ec. and Law
Sokolov, Boris	SPIIRAS
Dolgui, Alexandre	Ec. Nationale Supérieure des Mines de Saint-Etienne
Solovyeva, Inna	St. Petersburg State Univ.

16:40-17:00 FrC2.3

Impact of Backorder on Supply Chain Performance – an Experimental Study, pp. 1932-1937.

Pillai, Madhusudanan	National Inst. of Tech. Calicut
Talari, Chinna Pamulety	National Inst. of Tech. Calicut

17:00-17:20 FrC2.4

A Genetic Algorithm Based Heuristic for the Design of Pick-Up and Delivery Routes for Strategic Alliance in Express Delivery Services, pp. 1938-1943.

Ko, Chang Seong	Kyungsung Univ.
Ferdinand, Friska Natalia	Pusan National Univ.
Kim, Kap Hwan	Pusan National Univ.
Koh, Shiegheun	Pukyong National Univ.

17:20-17:40 FrC2.5

The Impact of Information and Knowledge Sharing on the Buyer-Supplier Relationship and Performance in Electronics Industry, pp. 1944-1949.

Luo, Hao	The Univ. of Hong Kong
Sha, Sha	The Univ. of Hong Kong
Huang, George Q.	The Univ. of Hong Kong

17:40-18:00 FrC2.6

Mining Standard Operation Times for Real-Time Advanced Production Planning and Scheduling from RFID-Enabled Shopfloor Data, pp. 1950-1955.

Zhong, Runyang	Department of Industry and Manufacturing Systems Engineering, Th
Huang, George Q.	The Univ. of Hong Kong
Dai, Qingyun	School of Information Engineering, Guangdong Univ. of Tech.

18:00-18:20 FrC2.7

A Multi-Objective Stochastic Programming Model for Designing Supply Chain Networks, pp. 1956-1960.

Azaron, Amir	Univ. Coll. Dublin
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FrC3 Aud.41 (ITMO)

Recent Fuzzy Logic Applications in Manufacturing (Invited Session)

Chair: Benyoucef, Lyes	Univ. of Aix-Marseille
Co-Chair: Arsenyan, Jbid	Bahcesehir Univ.

16:00-16:20 FrC3.1

<i>A Simulation-Based Genetic Algorithm Approach for Process Plans Selection in Uncertain Reconfigurable Environment (I)</i> , pp. 1961-1966.		
Bensmaïne, Abderrahmane		ENIM
DAHANE, Mohammed		ENIM
Benyoucef, Lyes		Univ. of Aix-Marseille
16:20-16:40		FrC3.2
<i>A Hybrid Approach Combining Fuzzy Consensus and Goal Programming for Information Systems Selection (I)</i> , pp. 1967-1972.		
Igoulalene, Idris		Aix-Marseille Univ.
Benyoucef, Lyes		Univ. of Aix-Marseille
16:40-17:00		FrC3.3
<i>Manufacturing Vendor Selection Based on Cross-Entropy Measure with Fuzzy VIKOR Method</i> , pp. 1973-1978.		
Zhao, Xinye		National Univ. of Defense Tech.
Kedi, Huang		National Univ. of Defense Tech.
Ge, Li		National Univ. of Defense Tech.
17:00-17:20		FrC3.4
<i>Modeling Cyclic Interactions within a Production Environment Using Transition Adaptive Recurrent Fuzzy Systems</i> , pp. 1979-1984.		
Stahl, Benjamin		Tech. Univ. München
Diepold, Klaus Jürgen		Tech. Univ. München
Pohl, Johannes		Tech. Univ. München, Inst. for Machine Tools and
Greitemann, Josef		Tech. Univ. München, Inst. for Machine Tools and
Plehn, Christian		Tech. Univ. München, Inst. for Machine Tools and
Koch, Jonas		Tech. Univ. München, Inst. for Machine Tools and
Lohmann, Boris		Tech. Univ. München
17:20-17:40		FrC3.5
<i>An Integrated Fuzzy Approach for Information Technology Planning in Collaborative Product Development</i> , pp. 1985-1990.		
Arsenyan, Jbid		Bahcesehir Univ.
Buyukozkan, Gulcin		Galatasaray Univ.
FrC4		Aud.51 (ITMO)
Computational Methods for Stochastic Inventory Control (Invited Session)		
Chair: Tarim, Armagan		Hacettepe Univ.
Co-Chair: Rossi, Roberto		Univ. of Edinburgh Business School
16:00-16:20		FrC4.1
<i>On Service Level Measures in Stochastic Inventory Control (I)</i> , pp. 1991-1996.		
Rossi, Roberto		Univ. of Edinburgh Business School
16:20-16:40		FrC4.2
<i>Optimal Lot Sizing with NPV Approach for Inventory Systems with Constant Demand (I)</i> , pp. 1997-2002.		
Dural Selcuk, Gozdem		METU
Cimen, Mustafa		Lancaster Univ.
16:40-17:00		FrC4.3
<i>Stochastic Linear Systems under Control Constraints: A Supply Chain Planning Tool (I)</i> , pp. 2003-2008.		
Tarim, Armagan		Hacettepe Univ.
17:00-17:20		FrC4.4
<i>A Reformulation for Static-Dynamic Uncertainty Strategy under Service Level Constraint (I)</i> , pp. 2009-2014.		
Tunc, Huseyin		Hacettepe Univ.
Eksioglu, Burak		Mississippi State Univ.
17:20-17:40		FrC4.5
<i>Approximate Dynamic Programming Algorithms for Multidimensional Inventory Optimization Problems (I)</i> , pp. 2015-2020.		
Cimen, Mustafa		Lancaster Univ.
Kirkbride, Christopher		Lancaster Univ.
17:40-18:00		FrC4.6
<i>Periodic Review for a Perishable Item under Non Stationary Stochastic Demand (I)</i> , pp. 2021-2026.		
Rossi, Roberto		Univ. of Edinburgh Business School
FrC5		Aud.52 (ITMO)
Manufacturing Resources Design, Development and Optimization (Invited Session)		
Chair: Hungerländer, Philipp		Univ. of Klagenfurt

16:00-16:20	FrC5.1
<i>Detailed Dynamic Layout Planning: An Adaptive Layout Approach (I)</i> , pp. 2027-2032.	
Pillai, Madhusudan Thazhathu Valiyaveetil, Krishna Mohan	National Inst. of Tech. Calicut National Inst. of Tech. Calicut
16:40-17:00	FrC5.3
<i>A Semidefinite Optimization Approach to the Directed Circular Facility Layout Problem (I)</i> , pp. 2033-2038.	
Hungerländer, Philipp	Univ. of Klagenfurt
17:00-17:20	FrC5.4
<i>A Hybrid Genetic Algorithm for Solving Machine Layout Problem with Consideration of Industrial Constraints</i> , pp. 2039-2044.	
Manita, Ghaith KORBAA, Ouajdi	ESSECT Tunis ISITCom Hammam Sousse, MARS Unit
FrC6	Aud.31 (ITMO)
Engineering and Delivering Industrial Services (Invited Session)	
Chair: Gaiardelli, Paolo Co-Chair: Smirnov, Alexander	Univ. of Bergamo St.Peterburg Inst. for Informatics andAutomationoftheRussian Acad. of Sciences
16:00-16:20	FrC6.1
<i>Multilevel Self-Organisation and Context-Based Knowledge Fusion for Business Model Adaptability in Cyber-Physical Systems (I)</i> , pp. 2045-2050.	
Smirnov, Alexander Sandkuhl, Kurt Shilov, Nikolay	St.Peterburg Inst. for Informatics andAutomationoftheRussian The Univ. of Rostock St.Peterburg Inst. for Informatics and
16:20-16:40	FrC6.2
<i>Assessing the Value of an Installed Base Information Management System: A Simulation-Based Case Study (I)</i> , pp. 2051-2056.	
Tucci, Mario Rapaccini, Mario Visintin, Filippo Rizzi, Alberto	Florence Univ. Univ. degli Studi di Firenze Univ. of Florence Univ. of Florence
16:40-17:00	FrC6.3
<i>The Individual Level of Servitization: Creating Employees' Service Orientation (I)</i> , pp. 2057-2062.	
Rese, Mario Maiwald, Kira	Ruhr-Univ. Bochum, Marketing Department Ruhr-Univ. Bochum
17:00-17:20	FrC6.4
<i>ICT Functionalities in the Servitization of Manufacturing (I)</i> , pp. 2063-2068.	
Dotti, Stefano Gaiardelli, Paolo Pinto, Roberto Resta, Barbara	Univ. of Bergamo Univ. of Bergamo Univ. of Bergamo Univ. of Bergamo
17:20-17:40	FrC6.5
<i>A Semantic Mapping Approach to Retrieve Manufacturing Information Resources: STMicroelectronics' Case Study</i> , pp. 2069-2074.	
Bouزيد, Sara Cauvet, Corine Frydman, Claudia Pinaton, Jacques	LSIS / STMicroelectronics LSIS - Univ. of Aix-Marseille LSIS - Univ. of Aix-Marseille STMicroelectronics
17:40-18:00	FrC6.6
<i>An Energy Management Initiative for the Calcium Compound Processing Industry</i> , pp. 2075-2080.	
Nadarajah, Jayaseelan Abdul Aziz, Faieza Baharudin, B.T.Hang Tuah N.K.Thomas, Mathew Chin, Kuan Hwa	Plantmac Engineering Consultant Univ. Putra Malaysia Univ. Putra Malaysia Plantmac Engineering Consultant Syarikat Elektrik Chee Lee
18:00-18:20	FrC6.7
<i>A Collaborative Enterprise Framework to Support Engineering Changes in Manufacturing Planning and Control (I)</i> , pp. 2081-2086.	
Sriram, Kumar, Pavan Alfnes, Erlend Petersen, Sobah	NTNU NTNU Sintef

FrC7	Aud.61 (ITMO)
Multimodal Networks Modelling and Design (Invited Session)	
Chair: Zaikin, Oleg	Warsaw School of Computer Science
Co-Chair: Pesikov, Eduard	St. Petersburg State Univ. of Tech. and Design
16:00-16:20	FrC7.1
<i>Scheduling of Composite Bridge Components Transportation in Just in Time System (I)</i> , pp. 2087-2091.	
Bozejko, Wojciech	Wroclaw Univ. of Tech.
Hejducki, Zdzislaw	Wroclaw Univ. of Tech.
Uchronski, Mariusz	Wroclaw Centre for Networking and Supercomputing
Wodecki, Mieczyslaw	Univ. of Wroclaw
16:20-16:40	FrC7.2
<i>Robustness of Multimodal Processes Itineraries (I)</i> , pp. 2092-2097.	
Bocewicz, Grzegorz	Koszalin Univ. of Tech.
Banaszak, Zbigniew	Warsaw Univ. of Tech.
Nielsen, Izabela	Aalborg Univ.
16:40-17:00	FrC7.3
<i>Modelling and Scheduling Autonomous Mobile Robot for a Real-World Industrial Application (I)</i> , pp. 2098-2103.	
Quang, Vinh Dang	Aalborg Univ.
Nielsen, Izabela	Aalborg Univ.
Bøgh, Simon	Aalborg Univ.
Bocewicz, Grzegorz	Koszalin Univ. of Tech.
17:00-17:20	FrC7.4
<i>Approach for Color Management in Printing Process in Open Manufacturing Systems (I)</i> , pp. 2104-2109.	
Olejnik-Krugly, Agnieszka	West Pomeranian Univ. of Tech. in Szczecin
Rozewski, Przemyslaw	West Pomeranian Univ. of Tech. in Szczecin
Zaikin, Oleg	Warsaw School of Computer Science
Sienkiewicz, Piotr	Warsaw School of Computer Science
17:20-17:40	FrC7.5
<i>Multimodal Approach to Model and Design Supply Chain (I)</i> , pp. 2110-2115.	
Pawlewski, Pawel	Poznan Univ. of Tech.
17:40-18:00	FrC7.6
<i>Conducting Market Segmentation and Diagnostics of the Consumer Printed Products by Using Methods of Multivariate Statistical Analysis and Artificial Intelligence (I)</i> , pp. 2116-2121.	
Pesikov, Eduard	St. Petersburg State Univ. of Tech. and Design
Zaikin, Oleg	Warsaw School of Computer Science
Kozlova, Ekaterina	St.Petersburg State Univ. of Tech. and Design
18:00-18:20	FrC7.7
<i>Privacy-Preserved Distributed Coordination of Production Scheduling in B2B Networks: A Multiagent Approach</i> , pp. 2122-2127.	
Gorodetsky, Vladimir	SPIIRAS
Bukhvalov, Oleg	Intelligent Platforms and Systems Ltd.
Karsaev, Oleg	Intelligent Platforms and Systems
Samoylov, Vladimir	Intelligent Platforms and Systems
Kudryavtsev, Gennady	Izhevsky Motozavod "Axion Holding"
FrC8	Aud.42 (ITMO)
Cybersecurity in Control and Safety Systems (Invited Session)	
Chair: Promyslov, Vitaly	V.A. Trapeznikov Inst. of Control Sciences
Co-Chair: Pietre-Cambacedes, Ludovic	EDF
16:00-16:20	FrC8.1
<i>Applying a Security Conceptual Model for Coverage Analysis (I)</i> , pp. 2128-2133.	
Raspotnig, Christian	Inst. of Energy Tech.
Katta, Vikash	Inst. of Energy Tech.
16:20-16:40	FrC8.2
<i>A Preliminary Report on Static Analysis of C Code for Nuclear Reactor Protection System (I)</i> , pp. 2134-2139.	
Lee, Jong-Hoon	Konkuk Univ.

Kim, Eui-Sub	Konkuk Univ.
Yoo, Junbeom	Konkuk Univ.
Lee, Jang Soo	Korea Atomic Energy Res. Inst.
16:40-17:00	FrC8.3
<i>Introduction of a Cyber Security Risk Analysis and Assessment System for Digital I&C Systems in Nuclear Power Plants (I)</i> , pp. 2140-2144.	
Lee, Cheol Kwon	Korea Atomic Energy Res. Inst.
17:00-17:20	FrC8.4
<i>Formal Hierarchical Model of Security of the Upper Level of Instrumentation & Control System of a Nuclear Power Plant (I)</i> , pp. 2145-2150.	
Promyslov, Vitaly	V.A. Trapeznikov Inst. of Control Sciences
Poletikin, Alexey	Inst. of Control Sciences
17:20-17:40	FrC8.5
<i>Safety Analysis of Combined FMEA and FTA with Computer Software Assistance (I)</i> , pp. 2151-2155.	
Liu, Chi-Tang	National Tsing Hua Univ.
Hwang, Sheue-Ling	National Tsing-Hua Univ.
LIN, I-KAI	Department of Occupational Safety and Health, Chung Shan Medical
17:40-18:00	FrC8.6
<i>Cyber Security of Nuclear Instrumentation & Control Systems: Overview of the IEC Standardization Activities (I)</i> , pp. 2156-2160.	
Pietre-Cambacédes, Ludovic	EDF
Quinn, Edward L.	Tech. Res.
Leroy, Hardin	U.S. Nuclear Regulatory Commission
18:00-18:20	FrC8.7
<i>ARMATURE: A Structurally Adaptive Connectivity Manager for Critical Communication Services Preservation (I)</i> , pp. 2161-2166.	
Hecker, Artur	Télécom ParisTech
Benchaib, Yacine	Télécom ParisTech
Chaudet, Claude	Télécom ParisTech
FrC9	Aud.32 (ITMO)
Computer Modeling and Simulation of Complex Technical and Manufacturing Systems - 2 (Invited Session)	
Chair: Senichenkov, Yuri Borisovitch	Saint Petersburg State Pol. Univ.
Co-Chair: Awasthi, Anjali	Concordia Univ.
16:00-16:20	FrC9.1
<i>Software Support for Intellectual Control of Anthropogenic Objects Technical Condition (I)</i> , pp. 2167-2172.	
Vladova, Alla	Orenburg State Univ.
16:20-16:40	FrC9.2
<i>Simulation of Technological Processes in Coal Mining (I)</i> , pp. 2173-2178.	
Okolnishnikov, Victor	Design Tech. Inst. of Digital Tech. of Siberian
Rudometov, Sergey	Design Tech. Inst. of Digital Tech. of Siberian
Zhuravlev, Sergey	Design Tech. Inst. of Digital Tech. of Siberian
16:40-17:00	FrC9.3
<i>Event-Driven Simulation of Control Systems with Variable Parameters (I)</i> , pp. 2179-2184.	
Denisova, Ludmila	Omsk State Tech. Univ.
17:00-17:20	FrC9.4
<i>Visual Modeling of Dynamical Systems by Instrumental Facilities (I)</i> , pp. 2185-2190.	
Shornikov, Yury	NSTU
Novikov, Evgeny	ICM SB RAS
Dostovalov, Dmitry	NSTU
Myssak, Maria	NSTU
17:20-17:40	FrC9.5
<i>Using OpenMVLShell in Research and Education (I)</i> , pp. 2191-2196.	
Isakov, Andrey	St. Petersburg Pol. State Univ.
17:40-18:00	FrC9.6
<i>Component Modelling of Ship Systems in TRANSAS Liquid Cargo Handling Simulators (I)</i> , pp. 2197-2200.	
Tarasov, Sergey	TRANSAS Tech.
Lebedev, Dmitriy	TRANSAS Tech.

*Adaptive and Predictive Control Architecture of Inland Navigation Networks in a Global Change Context: Application to the
Cuinchy-Fontinettes Reach (I)*, pp. 2201-2206.

Duviella, Eric
Rajaoarisoa, Lala
Blesa, Joaquim
Chuquet, Karine

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