

sessions WE-A			
08:00 am - 09:40 am	WE-A-1	Cutting and Scheduling (room A001)	<p>Optimization techniques for manufacturing process and mainly cutting machines Chairs: Chrysostomos Stylios, Alexander Petunin</p> <p>(102) Online Parameter Estimation for Model-Based Force Control in Milling Processes (Petrucci, Henning; Schlick, Christopher Marc; Stemmler, Sebastian; Abel, Dirk; Adams, Oliver; Klocke, Fritz) (199) Routing Problems: Constraints and Optimality (Chentsov, Alexander; Chentsov, Pavel; Petunin, Alexander Sesekin) (200) Tool Routing Problem for CNC Plate Cutting Machines (Chentsov, Pavel; Petunin, Alexander, Sesekin Alexander) (255) Large Gaps in Skiving Stock Problem(Kartak, Vadim; Ripatti, Artem) (258) Linear Time Algorithm for Precedence Constrained Asymmetric Generalized Traveling Salesman Problem (Chentsov, Alexander; Khachay, Michael; Khachay, Daniel)</p>
	WE-A-2	Integration of complex problems in the Supply Chain Management (room A002)	<p>Production and logistics system integration: multi-faceted aspects Chairs : Agnieszka Stachowiak, Adamczak, Michal</p> <p>(295) Strategy and operation towards leagility - a case study on production-logistics system (Stachowiak, Agnieszka; Hadas, Lukasz; Cyplik, Piotr) (201) The Integration between Production-Logistics System and Its Task Environment – Chosen Aspects (Adamczak, Michal; Domanski, Roman; Hadas, Lukasz; Cyplik, Piotr) (481) Scheduling and Lot Sizing Problems for Variable Range of Products Using GA-Based Method (Joanna Oleśków Szapka, Grzegorz Pawłowski) (496) The Value of Vendor Managed Inventory in an Autocorrelated Demand Environment (GHAITI, Fouzia; BELALIA, Zainab) (513) SWOT Analysis for Planned Maintenance Strategy – a Case Study (Jasiulewicz-Kaczmarek, Malgorzata)</p>
	WE-A-3	Simulation and discrete event (room C001)	<p>New trends of renewable energy in industrial systems Chairs: Najib Essounbouli, Hayet Mous</p> <p>(471) Wind Turbine System Optimisation Using Interval TzFL Tuned with PSO (HARAOUbia, MOHAMED AMINE; Essounbouli, Najib; Hamzaoui, Abdelaziz) (419) Solar Energy Production: Short-Term Forecasting and Risk Management (Join, Cédric; Fliess, Michel; Voyant, Cyril; Chaxel, Frédéric) (389) A GA-Based Optimization of a Fuzzy-Based MPPT for a Photovoltaic Pumping System Used for Greenhouses (Hadjaissa, Boubakeur; AMEUR, Khaled; Ait cheikh, Saleh Mohammed; Essounbouli, Najib) (312) Optimal Synergetic Control Based BAT Algorithm for Dc-Dc Boost Converter (Nechadi, Emira; Harmas, Mohamed Naguib; Essounbouli, Najib; Hamzaoui, Abdelaziz) (275) A Fault Tolerant Strategy for Multilevel Dc-Dc Converters to Improve the PV System Efficiency(NOURI, Abdelatif; Salhi, Issam; Elbeid, Said; Essounbouli, Najib; ELWARRAKI, Elmostaafa)</p>
	WE-A-4	Healthcare (room C002)	<p>Lean and hospital logistics Chairs: Allaoui, Hamid; David Laplanche</p> <p>(514) One Small Change Can Lead to Large Complexity: A First Glimpse at the Master Data Change and Its Impact on the Semiconductor Supply Chain (Can Sun, Thomas Rose, Claudia Colella, Jürgen Schubert) (100) Multivariate Approach for Equipment Health Monitoring (Krauel, Christopher; Weishaepul, Laura) (138) Emergency Department Flow: A New Practical Patients Classification and Forecasting Daily Attendance (Afilal, Mohamed; Yalaoui, Farouk; DUGARDIN, Frédéric; Amodeo, Lionel; LAPLANCHE, David; Blua, Philippe) (408) A Multi-Method Simulation Modelling for Semiconductor Manufacturing (Sadeghi, rezvan; Dautzère-Pères, Stéphane; Yugma, Claude)</p>
	WE-A-5	Manufacturing Systems Design (room B101)	<p>Recent trends in optimization methods for the design of manufacturing systems Chairs: Hicham Chehade, Farouk Yalaoui</p> <p>(73) Availability Optimization of a Redundant Dependent System Using Genetic Algorithm (HABIB, MILIA; CHEHADE, Hicham; Yalaoui, Farouk; CHEBBO, Nazir; JARKASS, Iman) (187) A Column Generation Algorithm for the Buffer Allocation Problem Approximated by the Time Buffer Concept (Alfieri, Arianna; Matta, Andrea; Pastore, Erica) (279) Joint Planning of Production and Maintenance in a Single Machine Deteriorating System (Beheshti Fakher, Hossein; Nourefath, Mustapha; Gendreau, Michel) (286) Redundant Configuration of Automated Flow Lines (Müller, Christoph; Grunewald, Martin; Spengler, Thomas S.) (462) Maintenance Optimization Using Combined Fuzzy Genetic Algorithm and Local Search (MAATOUK, Imane; CHEBBO, Nazir; JARKASS, Iman; Chatelet, Eric)</p>
	WE-A-6	Optimization and methods (room C104)	<p>Dynamic optimization Chairs: Amir nakib, , Patrick Lallement</p> <p>(206) Split Procedure for Graph Partitioning: An Application to the SONET Ring Problem (Duhamel, Christophe; Aloise, Dario José; Santos, Andréa Cynthia; Freire de Oliveira, Thiago Henrique) (380) Robust Routes for the Fuzzy Multi-Objective Vehicle Routing Problem (bahri, oumayma; Talbi, El-Ghazali; ben amor, nahla) (544) Dynamic Strategy Selection Based on Evidence Theory. Application on a P2P-VoD System (nakib, amir) (557) Fast Solutions Enhancing Using a Copula-Based EDA and SVM for Many-Objective Problems (Cherif, Abdelhakim; Cherif, Foudil; Taleb-ahmed, Abdelmalik)</p>
	WE-A-7	Reliability, maintenance and Safety (room B105)	<p>Maintenance optimization Chairs: Mitra Fouladirad, Nathalie Sauer</p> <p>(146) Maintenance Policies for a Heterogeneous Two-Component System with Stochastic and Economic Dependencies (Nguyen, Trung Duong; Deloux, Estelle; Dieulle, Laurence) (247) Maintenance of a Two Dependent Component System: Case Study (zhang, nan; Fouladirad, Mitra; Barros, Anne) (413) Optimum Failure Management Strategy for Periodically Inspected Units with Imperfect Maintenance (Ahmadi, Alireza; Soleimanmeigouni, Iman; Block, Jan; Letot Christophe) (501) Controlled Systems, Failure Prediction and Maintenance (Fouladirad, Mitra; GRALL, Antoine; langeron, yves) (515) On the Assessment of Performance and Robustness of Condition-Based Maintenance Strategies (Cherkaoui, Hajar; Huynh, Khac Tuan; GRALL, Antoine)</p>
	WE-A-8	Signal processing and system control (room C102)	<p>System Identification for Manufacturing Control Application Chairs: Kirill Chernyshov, Elena Jharko</p> <p>(2) Constructing Stable Recursive Schemes of Solving Overdetermined Systems of Linear Equations (Chernyshov, Kirill , Elena Jharko) (66) Mathematical Models and Routing Algorithms for CAD of Technological Support of Cutting Processes (Makarovskikh, Tatiana; Panyukov, Anatoly; Savitskiy, Egor) (583) Entropy Criteria in the Econometric Model Identification (Chernyshov, Kirill, Jharko Elena) (98) In-Flight Management for Attitude Control System with Animation of Satellite Motion (Somov, Yevgeny; Butyrin, Sergey; Somov, Sergey; Somova, Tatyana; Hajiyev, Chingiz; Sukhanov, Victor) (60) Structural Identification of Nonlinear Dynamic Systems (Karabutov, Nikolay)</p>
	WE-A-9	Supply Chain Analytics and Risk Control (room C103)	<p>Control approaches to supply chain analytics, scheduling, and discrete systems Chairs: Dmitry Ivanov, Alexandre Dolgui,</p> <p>(62) Schedule Coordination in Cyber-Physical Supply Networks Industry 4.0 (Ivanov, Dmitry; Sokolov, Boris; Ivanova, Marina) (290) On the Inventory Control of Supply Chain under Uncertainties on the Demand Forecast and the Lead Times (ABBOU, Rosa, ANTAKLY Dimitri) (520) A Framework of Performance Assessment of Collaborative Supply Chain Dimensions: The Case of Tunisian Industry (ZAOUALI, Inaam; EL MHAMED, Abderrahman; HANI, Yasmina) (590) Dynamic Manufacturing Cells and SME' Network : Key Success Factors (Gamache, Sébastien; Abdounour, Georges) (575) One Approach to Railway Network Decomposition into Territorial Zones (Zalozhnev, Alexey, Chistov Dmitry)</p>
09:40 am - 10:40 am	Plenary session : Prof. Kathryn Stecke (room M500) Chair : Pr. J.C. BILLAUT		
10:40 am - 11:00 am	coffee break		
sessions WE-B			
	WE-B-1	Cutting and Scheduling (room A001)	<p>Risk, resilience, and recovery in project management and scheduling Chairs: Gonzalo Mejia, Lionel Amodeo,</p> <p>(198) Approximate Analysis of an $GI/M/infty$ Queue Using the Strong Stability Method (Bareche, Aicha; Cherfaoui, Mouloud; Aissani, Djamil) (390) An MILP Model for Scheduling Multistage, Multiproducts Milk Processing (Touil, Achraf) (403) Multi-Objective Algorithms to Solve the Resource Constrained Project Scheduling Problem (Nino, Karen Yineth; MEJIA, GONZALO; Amodeo, Lionel) (474) On the Joint Optimization of the Periodic Preventive Maintenance and the Spare Parts Inventory Problem (Mjirada, Anis; BENMANSOUR, Rachid; ALLAOUJ, Hamid; Goncalves, Gilles) (126) Time-Dependent Formulations for Minimizing Total Completion Time in a Parallel Machine Scheduling Problem with Dependent Setup Times (Angel-Bello, Francisco; Baez, Sarahi; Alvarez, Ada) (412) A New Robust Approach for a Production Scheduling and Delivery Routing Problem (Cherif, Azerddine; Artigues, Christian; Billaut, Jean-Charles)</p>
	WE-B-2	Integration of complex problems in the Supply Chain Management (room A002)	<p>Integrated production and delivery problems Chairs: Alessandro Agnetis, Jean-Charles Billaut</p> <p>(337) Multiple Customers/Transporters Integrated Scheduling Problem to Minimize the Total Cost (hammoudan, Zakaria; AHMED, Fayed Shakil; Grunder, Olivier; Elmoudni, Abdellah Elmoudni) (153) Resolution of a Job-Shop Problem with Transportation Constraints: A Master/slave Approach (Lacomme, Philippe; VIGO, DANIELE; Prodron, Caroline; Ren, Libo; Afsar, Murat) (452) Design and Operation of Strategic Inventory Control System for Drug Delivery in Healthcare Industry (Baffo Ilaria, Ilaria Baffo; Stecca, Giuseppe; Kaihara, Toshiya) (483) Integrated Production and Delivery with Inventory Holding Costs (Agnietis, Alessandro; Aloulou, Mohamed Ali; Kovalyov, Mikhail Y)</p>
	WE-B-3	Manufacturing Systems Design (room B105)	<p>Modeling and optimization in design of assembly/disassembly lines under uncertainty Chairs: Mohand Lounes Bentaha, Olga Battala</p> <p>(437) Column Generation Approach for Disassembly Line Balancing (Duta, Luminita; Caciula, Ion; PATIC, Paul Ciprian) (570) Resource Constrained Disassembly Line Balancing Problem (Süleyman Mete, Eren Özceylan, Zeynel Abdil Cihan, Kürşad Ağpak) (588) Including Material Exposure and Part Attributes in the Manual Assembly Line Balancing Problem (Bortolini, M; Faccio, Maurizio; Gamberi, Mauro; Pilati, F.) (586) A Piecewise Linear Model for Stochastic Disassembly Line Balancing (Altekin, Fatma Tevhide)</p>

11:00 am - 12:40 pm			(571) A Goal Programming Approach for Robotic Assembly Line Balancing Problem (Zeynel Abidin Cil, Süleyman Mete, Kürşad Ağpak)	
	WE-B-4	Optimization for transportation and vehicle routing problems (room B101)	Green transportation logistics Chairs: Philippe Lacomme, Murat Afsar	
	WE-B-5	Posters Session (ground floor A)	Scheduling and data analysis Chairs: Youcef Yahiatene, Zaki Sari	
	WE-B-6	Signal processing and system control (room C102)	Sensor Network and Wireless Sensor Network Optimization Chairs: Raffaele Cerulli, Anatol Pashkevich	
	WE-B-7	Simulation and discrete event (room C001)	Control and Monitoring of Discrete Event Systems Chairs: Bernard Riera, Hassan Alla	
	WE-B-8	Industrial session (room C002)	Solving routing and scheduling problem with real applications Chairs: R Kelly, Samir Lamouri	
	WE-B-9	Rand Model Designer (room C104)	Tutorial 2	
	12:40 pm - 2:00 pm	lunch		
	2:00 pm - 3:00 pm	Plenary session : Prof Stanley B. Gershwin (room M500) Chair : Pr. A. DOLGUI		
	sessions WE-C			
WE-C-1	Cutting and Scheduling (room A001)	Complex systems scheduling: modeling and optimization Chairs: Yassine Ouazene, Mauricio C. de Souza	(91) Scheduling Cranes to Retrieve Steel Coils in a Warehouse (Naves Maschietto, Gabriela; OUAZENE, Yassine; Ravetti, Martin G.; de Souza, Mauricio C.; Yalaoui, Farouk) (140) The Two-Machine Flow Shop Problem with Conflict Graphs (TELLACHE, Nour El Houda; Boudhar, Mourad) (145) Semi-Parallel Flow Shop with a Final Synchronization Operation Scheduling Problem (Fernandes Gomes Guimarães, Irce; OUAZENE, Yassine; de Souza, Mauricio C.; Yalaoui, Farouk) (277) An Exact Method to Solve a Bi-Objective Resource Constraint Project Scheduling Problem (Wang, Xixi; DUGARDIN, Frédéric; Yalaoui, Farouk) (300) Comparison of Mixed Integer Linear Programming Models for the Event Scheduling Problem with Consumption and Production of Resources (SAHLI, Abderrahim; Carlier, Jacques; Moukrim, Aziz)	
WE-C-2	Integration of complex problems in the Supply Chain Management (room A002)	Integration of Supply Chain Planning and Intelligent Systems Chairs: Campos, Daniel Pimentel; Enzo Morosini Frazzon; Philipp Saalman	(190) Simulation-Based Optimization for the Integrated Scheduling of Production and Logistic Systems (Frazzon, Enzo Morosini; Albrecht, André; Hurtado, Paula Andrea) (373) Decision Support for a Spare Parts Supply Chain Coordination Problem: Designing a Tactical Collaborative Planning Concept (Saalman, Philipp; Wagner, Carolin; Hellingrath, Bernd) (401) On the Application of Modelling and Simulation to Compare Human and Automation-Based Order-Picking Systems (Francisco, Roberto da Piedade; Campos, Daniel Pimentel; Frazzon, Enzo Morosini; Machado, Ricardo Luiz) (460) Accelerated Life Test for Integration of Supply Chain Planning and Intelligent Systems (Rocha, Clayton Gilnei; Henriques, Renato Ventura Bayan; Pereira, Carlos Eduardo) (534) Simulation-Based Performance Evaluation of a Concept for Integrating Intelligent Maintenance Systems and Spare Parts Supply Chains (Frazzon, Enzo Morosini; de Souza Silva, Lucas; Pires, Matheus Cardoso)	
WE-C-3	Data mining and knowledge management (room C001)	Modelling and management of Experiences, Knowledge and Competences for Manufacturing Systems Chairs: Eric Bonjour, Nada Matta	(139) A Support System to Manage Product and Process Changes in Manufacturing (Bruno, Giulia) (144) Towards a Learning Curve for Electric Motors Production under Organizational Learning Via Shop Floor Data (ATTIA, El-Awady; MEGAHED, Ashraf; DUQUENNE, Philippe) (181) Proposition of an Agile Knowledge-Based Process Model (Llamas, Valentina Maria; Couder, Thierry; GENESTE, Laurent; ROMERO BEJARANO, Juan Camilo; De Valroger, Aymeric) (232) How to Share Complex Data and Knowledge: Application in Bio-Imaging (Cong Cuong Pham, Nada Matta, Alexandre Durupt, Benoit Eynard, Marianne Allanic, Guillaume Ducellier, Marc Joliot, Philippe Boutinaud) (246) New Product Acceptability Evaluation and Improvement Model with Knowledge Reuse (Arbelaez-Garcés, Giovanni; BONJOUR, Eric; Rakotondranaivo, Auguste)	
WE-C-4	Fuzzy (room C103)	Recent fuzzy logic applications in manufacturing and logistics Chairs: Manoj K Tiwari, Tavakkoli-Moghaddam Reza	(113) MRP Parameter Evaluation under Fuzzy Lead Times (Ben Ammar, Oussama; guillaume, romain; Thierry, caroline) (278) A New Bi-Objective Location-Routing-Inventory Problem with Fuzzy Demands (Raziei, Zohreh; Tavakkoli-Moghaddam, Reza) (280) An Interval Fuzzy Optimization-Based Technique to Optimal Generation Scheduling with Load Uncertainty (DERGHAL, Abdellah; Golea, Noureddine; Essounbouli, Najib) (376) Fuzzy Adaptive Genetic Algorithm for Improving the Solution of Industrial Optimization Problems (Vannucci, Marco; Colla, Valentina; Dettori, Stefano) (458) Classification and Efficiency Estimation of Mistake Proofing Solutions by Fuzzy Inference (Antonelli, Dario; Stadnicka, Dorota)	
WE-C-5	Healthcare (room C002)	Optimization of the hospital department: surgical block and emergency Chairs: David Laplanche, Farouk Yalaoui	(472) Hospital Site Selection Via Hesitant Fuzzy TOPSIS (eda bolturk, Irem Otay, Özlem Şenvar) (476) Operating Room Scheduling Including Medical Devices Sterilization : Towards a Transverse Logistic (berouel, benoit; Grunder, Olivier; Barakat, Oussama; Aujoulat, Olivier; lustig, Helene) (545) Two-Stage Stochastic Assignment Problem in the Home Health Care (Errahout, Afrae; kharraja, Saïd; Corbier, Christophe) (306) Lean Improvement Practices: Lessons from Healthcare Service Delivery Chains (Tay, Huay Ling)	
WE-C-6	Manufacturing Systems Design (room C104)	Facility planning and design Chairs: Abdelahad Chraïbi, Yeming Gong	(135) Improving the Speed Delivery for Robotic Warehouses (YUAN, Zhe; Gong, Yeming) (281) A Particle Swarm Algorithm for Solving the Multi-Objective Operating Theater Layout Problem (CHRAÏBI, Abdelahad; kharraja, Saïd; OSMAN, Ibrahim; ELBEQQALI, Omar) (527) MaCon: Consistent Cross-Disciplinary Conception of Manufacturing Systems (Hackenberg, Georg; Gleirscher, Mario; Stocker, Thomas; Richter, Christoph; Reinhart, Gunther) (543) Generic Model for Managing Context-Aware Assembly Instructions (Claeys, Arno; Hoedt, Steven; Van Landeghem, Hendrik; Cottyn, Johannes)	

3:00 pm - 4:40 pm	WE-C-7	Optimization for transportation and vehicle routing problems (room B101)	Vehicle Routing for services provision Chairs: Nacima Labadie, Murat Afsar	(205) Heuristic Approaches to Solve a Generalized Dial-A-Ride Problem Applied to Car-Pooling (Pinson, Corentin; Afsar, Murat; Prodhon, Caroline) (252) The Nurse Routing Problem with Workload Constraints and Incompatible Services (Manerba, Daniele; MANSINI, Renata) (322) NSGAI Enhanced with a Local Search for the Vehicle Routing Problem with Time Windows and Synchronization Constraints (AIT HADDADENE, Syrine Roufaiid; LABADIE, Nacima; Prodhon, Caroline) (352) A Multi Population Memetic Algorithm for the Vehicle Routing Problem with Time Windows and Stochastic Travel and Service Times (Gutierrez, Andres; Dieulle, Laurence; LABADIE, Nacima; Velasco, Nubia) (512) Local Search Analysis for a Vehicle Routing Problem with Synchronization and Time Windows Constraints in Home Health Care Services (En-nahli, Iaila; Sohaib, Laffi; ALLAOUJ, Hamid; Nouaouri, Issam) (442) Fuzzy Model of a Joint Maintenance and Production Control under Sustainability Constraints (Hennequin, Sophie; Ramirez Restrepo, Laura Maria)	
	WE-C-8	Reliability, maintenance and Safety (room B105)	Maintenance and Production Control under Ecological, Warranty, and Subcontracting Constraints Chairs: Nidhal Rezg, El-Houssaine Aghezaf	(243) Selective Maintenance for Series-Parallel Systems When Durations of Missions and Planned Breaks Are Stochastic (KHATAB, Abdelhakim; Aghezaf, El-Houssaine; Djelloul, Imene; Sari, Zaki) (426) Optimal Inspection Policy Based on Measurement Quality Degradation: Case of Pitot Sensors System (EZZEDDINE, Wajih; Schutz, Jérémie; REZG, Nidhal) (85) Optimal Production Control of a Manufacturing-Remanufacturing System with Delivery Activity (TURKI, sadok; REZG, Nidhal) (497) An Approach to Risk Assessment for Outsourcing Logistics: Case of Pharmaceutical Industry (A. El Mokri, E. Dafaoui, A. Berrado, A. El Mhamedi)	
	WE-C-9	Signal processing and system control (room C102)	System Identification for Manufacturing Control Application Chairs: Bakhtadze, Natalia, Elena Jharko	(184) Multi-Agent Simulation of SWAP BODIES Application in Manufacturing Supply Chain (Morozov, Boris; Sabitov, Rustem; Smirnova, Gulnara; Karsaev, Oleg; Elizarova Natalya, Bakhtadze Natalia) (345) Integrability of Buckley - Leverett's Filtration Model (Akhmetzhanov, Atlas; Kushner, Alexei; Lychagin, Valentin) (444) Diffusion Bias-Compensated RLS Estimation with Quantized Measurements Over Adaptive Networks (LOU, JIAN; Jia, Li-juan, Wang Yuning) (465) A Genetic Algorithm Approach for Parameter Optimization of a 7DOF Robotic Manipulator (West, Craig; Montazeri, Allahyar; Taylor, C. James; Monk, Stephen) (176) Scenario Analysis in the Management of Technogenic Safety (Kulba, Vladimir; Zaikin, Oleg; Chernov, Igor)	
	4:40 pm - 5:00 pm				
	coffee break				
	sessions WE-D				
	5:00 pm - 6:40 pm	WE-D-1	Cutting and Scheduling (room A001)	Complex systems scheduling: modeling and optimization Chairs: Taha Arbaoui, Mauricio C. de Souza	(331) A NSGA-II and NSGA-III Comparison for Solving an Open Shop Scheduling Problem with Resource Constraints (Campos Ciro, Guillermo; DUGARDIN, Frédéric; Yalaoui, Farouk; Kelly, Russell) (421) Cost Analysis of Capacity Flexibility in a Hybrid Multiple-Line Production System at Siemens AG (Zschorn, Lars; Mueller, Steve; Ivanov, Dmitry) (431) Modeling a Generalized Resource Constrained Multi Project Scheduling Problem Integrated with a Forward-Backward Supply Chain Planning (GHOLIZADEH TAYYAR, shadan; DUPONT, Lionel; Lamothe, Jacques; FALCON, Marie) (552) A Heuristic for Exam Timetabling (ARBAOUI, TAHA; Boufflet, Jean-Paul; Moukrim, Aziz) (578) An Improved Imperialist Competitive Algorithm Based Rolling Horizon Strategy for Photolithography Machines Scheduling (Zhang, Peng; Lv, Youlong; Zhang, Jie)
		WE-D-2	Systematic innovation and lean approach in engineering (room C001)	Integration of Human Factors Principles in Systematic Innovation and Lean Environments Chairs: Duarte, Susana, Helena V. G. Navas	(158) The Intelligent Pre-Emergency Driving Onboard System (Bakhtadze, Natalia; Dmitrenko, Larissa; Lototsky, Vladimir; Nikulina Irina, Vorobjev Georgy) (548) Integration of Lean, Agile, Resilient and Green Paradigms in a Business Model Perspective: Theoretical Foundations (Duarte, Susana; Cabrita, Maria do Rosário; Carvalho, Helena; Cruz Machado, Virgilio) (582) An Application of the Inventive Design Methodology to Thermal Systems: Improvement of the Insertion of Thermocouples in a Combustor (Vaz, Daniel; Martinho, Alberto; Navas, Helena V. G.)
		WE-D-3	Fuzzy (room C104)	Fuzzy Modeling in Manufacturing, Management, and Control Chair: Nihal Erginel, Nicolay Tchernev	(283) The Theoretical Structure of Fuzzy Analytic Network Process (FANP) with Interval Type-2 Fuzzy Sets (Senturk, Sevil; Binici Yonca; Erginel, Nihal) (487) A Group Decision Making Approach for the Evaluation of Flexible Manufacturing Systems (Cayir Ervural, Beyzanur; Ervural, Bilal; Kabak, Ozgur) (288) An Adaptable Fuzzy Control Strategy for a Semi-Automated Flexible Manufacturing System with Routing Flexibility (Das, Ankur; Caprihan, Rahul) (319) Interval Valued Intuitionistic Fuzzy Investment Analysis: Application to CNC Lathe Selection (KAHRAMAN, Cengiz; Cevik Onar, Sezi; Oztaysi, Basar)
		WE-D-4	Manufacturing Systems Design (room A002)	Warehouse Design and Management Chairs: Zaki Sari, Farouk Yalaoui	(291) Model Predictive Control of an Automated Storage/Retrieval System (Nativ, Danielle Josine; Cataldo, Andrea; Scattolini, Riccardo; De Schutter, Bart) (296) Comparative Study between Continuous Models and Discrete Models for Single Cycle Time of a Multi-Aisles Automated Storage and Retrieval System with Class Based Storage (OUHOUD, Amina; GUEZZEN, Amine Hakim; Sari, Zaki) (297) An Enhanced Cycle Counting Approach Utilising Historical Inventory Data (Wijffels, Luc; Giannikas, Vaggelis; Woodall, Phillip; McFarlane, Duncan Campbell; Lu Wenrong)
		WE-D-5	Optimization for transportation and vehicle routing problems (room B101)	Urban freight distribution: emerging concepts and innovative models Chairs: Roberto Pinto, Christian Prins	(558) Crossdocking Operation Scheduling: Truck Arrivals, Shop-Floor Activities and Truck Departures (Serrano, Christian; MORAL-BLANCO, Javier; Delorme, Xavier; Dolgui, Alexandre) (342) A Review of Methodologies to Assess Urban Freight Initiatives (Zenezini, Giovanni; De Marco, Alberto) (349) A Vehicle Routing Problem with Time Windows Approach for Planning Service Operations in Gas Distribution Network of the Metropolitan Area (Anghinolfi, Davide; Paolucci, Massimo; Tonelli, Flavio) (530) Home Delivery Services: Innovations and Emerging Needs (Ghajjargar, Maliheh; Zenezini, Giovanni; Montanaro, Teodoro)
		WE-D-6	Reliability, maintenance and Safety (room B105)	Maintenance and Production Chairs: Abdelhakim Khatab, Mitra Fouladirad	(192) Imperfect Inspection Policy for Systems with Multiple Correlated Degradation Processes (Liu, Bin; Zhao, Xiujie; Yeh, Ruey-Huei; Kuo, Way) (254) Control Synthesis Based on Theory of Regions with Minimal Reachability Graph Knowledge (Rezig Sadok, Sadok; Achour Zied, Zied; REZG, Nidhal) (445) Classification of Spare Parts As the Element of a Proper Realization of the Machine Maintenance Process and Logistics - Case Study (Antosz, Katarzyna, Ratnayake R.M, Chandima) (447) A Dynamic Maintenance Policy for Production System with Variable Operational Condition (Hu, Jiawen; Jiang, Zuhua) (480) Development of Integrated Maintenance-Quality Policy According to Imperfect Quality Item Produced (mtibaa, amal; Dellagi, Sofiene; ACHOUR, Zied; Erray, Walid)
WE-D-7		Signal processing and system control (room C102)	Robotic, detection and recognition Chairs: Antonelli Dario, Bakhtadze, Natalia	(46) An H-infinity nonlinear control approach for multi-DOF robotic manipulators (Rigatos, Gerasimos; Siano, Pierluigi; Raffo, Guilherme Vianna) (194) A Vibrational Approach to Slag Sensing System: Development and Industrial Application (Piccinini, Andrea; Pesenti Campagnoni, Valerio; Ierace, Stefano; Floreani, Fabio) (488) Modeling and Detection of the Short-Circuit Fault in PMSM Using Finite Element Analysis (Fitouri, manel; bensalem, yemna) (505) Optimal Selection of the Workpiece Recognition Parameters by Minimizing the Total Error Cost (Sergey Astanin, Dario Antonelli, Paolo Chiabert) (71) Generation of Traffic/Terrain Conflict Free Trajectories and Their Analysis by Means of the On-Board Model of the Airplane (Bazhenov, Sergey; Egorov, Nikolay; Kulida, Elena; Lebedev, Valentina)	
WE-D-8		Supply Chain Analytics and Risk Control (room C103)	Supply Network Resilience and Dynamics Chairs: Dmitry Ivanov, Wenjun Zhang	(61) Disruptions in Supply Chains and Recovery Policies: State-Of-The-Art Review (Ivanov, Dmitry; Dolgui, Alexandre; Sokolov, Boris; Ivanova, Marina) (104) A Method to Measure the Resilience of Algorithm for Operation Management (Han, Bin; Zhang, Wenjun, Liu Changli) (395) Resilience and Vulnerability in Supply Chain: Literature Review (Elleuch, Hatem; DAFAOUI, El Mouloudi; EL MHAMED, Abderrahman; Chabchoub, Habib) (482) Hybrid Bat Algorithm for Overlapping Community Detection (Messaoudi, Imane; KAMEL, Nadjet) (564) Incorporating Design for Environment into Product Development Process: An Integrated Approach (Ameknassi, Lhoussaine; Ait-Kadi, Daoud; Keivanpour, Samira)	

7:45 pm - 11:30 pm

Banquet reception (Aube's convention center, city center)