

Session	Ref.	Authors, title
Room 1	W1.1 Special Session "Healthcare Management and Engineering I"	25 Farid Kadri, Fouzi Harrou, Ying Sun, Sondes Chaabane and Christian Tahon. Early Detection of Abnormal Patient Arrivals at Hospital Emergency Department 26 Karim Ghanes, Ouallid Jouini, Mathias Wargon and Zied Jemai. Modeling and analysis of triage nurse ordering in emergency departments 82 Fabiola Fernandez-Gutierrez, Jonathan I. Kennedy, Shang-Ming Zhou, Roxanne Cooksey, Mark Atkinson and Sinead Brophy. Comparing feature selection methods for high-dimensional imbalanced data: identifying rheumatoid arthritis cohorts from routine data 147 Xiaochen Zheng and Joaquin Ordieres-Meré. Detection and Analysis of Tremor Using a System Based on Smart Device and NoSQL Database 159 Alain Guinet and Roberto Faccincani. Hospital's Vulnerability Assessment 197 Salim Rostami, Thierry Garaix and Xiaolan Xie. Outpatient Appointment Scheduling for Chemotherapy Sessions
	W1.2 Special Session "Healthcare Management and Engineering II"	193 Fermín Mallor, Cristina Azcárate, Julio Barado and Laida Esparza. Optimal bed-control in an ICU when elective patient's arrivals are known. A simulation-based optimization approach 215 Daouia Aiane, Adnen El Amraoui and Khaled Mesghouni. A new optimization approach for a home health care problem 43 Abdelahad Chraïbi, Kharraja Saïd, Ibrahim Osman and Omar El Beqqali. Optimization of Dynamic Operating Theatre Facility Layout 194 Imene Elhachfi Essoussi. A performance evaluation of some collaborative inventory management practices in the healthcare supply chain 127 Pilar I. Vidal-Carreras, Julio J. García-Sabater, Juan A. Marin-García and Jose P. García-Sabater. Value Stream Mapping on Healthcare 228 Yafang Tsai and Shih-Wang Wu. New concept of nurse education for service innovation-A perspective of internal marketing
	W1.3 Special Session "Applying lean in the non-Make-To-Stock sector: criticalities, solutions and applications"	90 Francesco Zammori, Massimo Bertolini and Giovanni Romagnoli. Assessing performance of Work Load Control in High Variety Low Volumes MTO job shops: a simulative analysis 95 Maurizio Bevilacqua, Filippo Emanuele Ciarapica, Ilaria De Sanctis, Giovanni Mazzuto and Claudia Paciariotti. The automation of an assembly system: a business process re-engineering (BPR) perspective 96 Francesco Stefanelli, Maurizio Bevilacqua and Ilaria De Sanctis. Adaptability into Supply Chain Strategy: the adaptable PCSA framework 113 Massimo Bertolini, Giovanni Romagnoli and Francesco Zammori. Simulation of two hybrid production planning and control systems: a comparative analysis 184 Carina Pimentel and Sandra Martins. Design and Implementation of a Manufacturing Cell in a Job Shop Environment: An Action Research Study 75 Anne Francine Souza Martins, Roberta Costa Afonso, Simon Tamayo, Samir Lamouri and Christine Baldy Ngayo. Relationships between national culture and Lean Management: a literature Review
	W2.1 S2 Special Session "Reliability and maintenance I"	11 Mahmoud Awad. Reliability Growth Test Planning of Repairable Systems Using Subsystem Failure Distribution Data 45 Zhu Haiping, Huang Dan, Yin Hui, Deng Yuhao and Tian Zhipeng. An economic optimal model integrating statistical process control and preventive maintenance 88 Zied Hajej, Nidhal Rezg and Anis Chelbi. Optimization of Power Generation and Maintenance for a Wind Turbine under Stochastic Climatic Conditions 109 Hennie Husniah, Rachmawati Wangsaputra and Bermawi P. Iskandar. LEASED EQUIPMENT CONTRACT WITH SERVICING STRATEGY AND PREVENTIVE MAINTENANCE 120 Ezzedine Wajih, Schutz Jérémie and Rezg Nidhal. Proportional Hazards Modeling of a Pitot Tube Reliability and survivability 121 Joaquim Moreira, Manuel Pereira Lopes and Paulo Ávila. Shopping centers maintenance management performance: a case study
	W2.2 Special Session "Reliability and maintenance II"	167 Amir Ebrahimyazadeh, Sasan Barak, Hamidreza Maghsoudlou and Mehdi Toloo. Multi-objective particle swarm optimization for preventive maintenance 204 Quan Liu, Ayeley Tchangan, Bernard Kamsu and François Pérès. Modelling a large scale system for risk assessment 242 Afshin Jamshidi, Samira Abbasgholizadeh Rahimi, Daoud Ait-Kadi and Angel Ruiz. Dynamic risk modeling and assessing in maintenance outsourcing projects with FCM 266 Mohamed Anouar Jamali, Nizar El Hachemi, Abdelhakim Artiba and Abdessamad Ait Elcadi. Generalizing of the integration of noncyclical preventive maintenance scheduling and production planning for a series-parallel production line 140 Fredy Kristjanpoller, Mónica A. López-Campos, Pablo Viveros and Adolfo Crespo. Reliability assessment based on energy consumption as a failure rate factor 145 Pravin Tambe and Makarand Kulkarni. Cost Based Failure Consequence Approach for Identifying Critical Components for Maintenance Support Decision
	W2.3 Special Session "Scheduling under resources and temporal constraints"	100 Mohamed Karim Hajji, Hatem Hadda and Najoua Dridi. A heuristic procedure for the two-stage hybrid flow shop problem with dedicated machines 142 Ayoub Alami Masmoudi and Mohamed Benbrahim. New heuristics to minimize makespan for two identical parallel machines with one constraint of unavailability on each machine 150 Ahmed Gara-Ali and Marie-Laure Espinouse. A two-machine flow-shop scheduling with a deteriorating maintenance activity on the second machine 160 Abdessamad Ait El Cadi, Rachid Benmansour, Faiza Serraj and Abdelhakim Artiba. A joint optimization-simulation model to minimize the makespan on a repairable machine 212 Christophe Wilbaut, Rachid Benmansour, Oliver Braun and Saïd Hanafi. Iterative relaxation-based heuristic for the single-processor scheduling problem with time restrictions 238 Pierre Baptiste, Djamel Rebaine and Mohammed Zouba. Approximation schemes for scheduling jobs on two identical parallel machines with a single operator in a free changing mode
	W3.1 Regular Session "Logistics I"	87 Anne-Laure Ladler and Gülgün Alpan. Integrating truck scheduling and employee rostering in a cross-docking platform - an iterative approach 129 Jorge Victoria, H. Murat Afsar and Christian Prins. Vehicle Routing Problem with Time-Dependent Demand in Humanitarian Logistics 136 Da Xu, Muhammad Ali Memon and Bernard Archimede. An environment friendly method to generate dynamic transportation routing in a distributed context 132 Essia Ben Alaia, Imen Harbaoui Dridi, Hanen Bouchriha and Pierre Borne. Insertion of new depot locations for the optimization of multi-vehicles Multi-Depots Pickup and Delivery Problems using Genetic Algorithm 163 Maher Agi. Analysis of The Influence of Organisational and Inter-Organisational Factors on the Implementation of Green Supply Chain Management Practices 195 Cécilia Daquin, Gilles Goncalves, Hamid Allaoui and Tienté Hsu. Neighborhood Strategies for the Truck Dock Assignment Problem in Cross-Docks
	W3.2 Regular Session "Logistics II"	71 Alicia García. Study of alternative operation strategies in railroad terminals using simulation 73 Imen Harbaoui, Essia Ben Alaia and Pierre Borne. Heuristic Approach for The Optimization of The Dynamic Multi-Vehicle Pickup and Delivery Problem with Time Windows 244 El Hassan Laaziz. A comparison of intermodal transportation service network design models 255 Luis A. Moncayo-Martínez. A Multi-objective approach based on Rank Ant System to Configure Logistics Networks 236 Asmae El Mokri, El Mouloudi Dafaoui, Abderrahman El Mhamedi and Abdelaziz Berrado. A Decision Framework for Outsourcing Logistics in the Pharmaceutical Supply Chain 210 Riad von der Linde and Lars Moench. A Sampling Approach to Solve the Vehicle Routing Problem with Time Windows and Stochastic Travel Times
	W3.3 Regular Session "Supply Chain"	164 Roberto Domínguez, Salvatore Cannella and Jose M Framinan. On the Evaluation of Arborescent Supply Chains with Inventory Errors 176 Hannah Santos, Javier González Benito and Gustavo Lannelongue. Supply Chain Management and Performance: a Bibliometric Analysis 185 Eduardo Pacheco, Ricardo Lüders and Ana Póvoa. Performance Metrics for a Supply Chain Subject to Stochastic Demand 9 Joaquim Jorge Vicente, Susana Relvas and Ana Paula Barbosa-Póvoa. Bullwhip effect metrics for multi-echelon systems under order batching policies with cyclic demand 125 Ergun Gungor and Steve Evans. ADDRESSING ENVIRONMENTAL AND ECONOMIC IMPACTS OF CHANGEOVER OPERATIONS THROUGH MANUFACTURING STRATEGIES
	Room 4	W4.1 Student Paper Competition (I)
W4.2 Student Paper Competition (II)		84 Abroon Qazi, John Quigley, Alex Dickson, Barbara Gaudenzi and Süle Önsel Ekici. Cost and Benefit Analysis of Supplier Risk Mitigation in an Aerospace Supply Chain 85 Wael Hafsa, Brigitte Chebel-Morello, Kamal Medjaher and Noureddine Zerhouni. Prognostics of Health Status of Multi-component Systems With Degradation Interactions 123 Kunal Kumar, Christian Javier Clavijo Lopez, Oscar Augusto Tellez Sanchez, Amit Gupta, Olivier Peton, Thomas Yeung and Adrien Vanuxem. Integrated strategic and tactical optimization of animal-waste sourced biopower supply chains 152 Margaux Nattaf, Christian Artigues, Pierre Lopez, Rosa Medina, Victor Parada and Lorena Pradenas. A batch sizing and scheduling problem on parallel machines with different speeds, maintenance operations, setup times and energy costs 165 Lázhar Tlili, Mehdi Radhoui and Anis Chelbi. Availability optimization of periodically inspected production systems generating environmental damage 177 Siham Lakri and Zied Jemai. Performance Measurement and Management Systems of Supply chains: A review of the challenges they raise
W4.3 Student Paper Competition (III)		256 Abroon Qazi, John Quigley, Alex Dickson and Konstantinos Kirytopoulos. Modelling Project Complexity driven Risk Paths in New Product Development 252 Oussama Masmoudi, Alice Yalaoui, Yassine Ouazene and Hicham Chehade. A multi-level capacitated lot-sizing problem with energy consideration 217 Lorena Silva Belisário, Nesrine Azouz and Henri Pierreval. Adaptive ConWIP: analyzing the impact of changing the number of cards 148 Hossein Beheshti Fakher, Mustapha Nourefath and Michel Gendreau. Cost minimization model for joint lot scheduling and maintenance planning in imperfect systems under quality constraints

Session	Ref.	Authors, title
Room 1	T1.1 Special Session "Realistic manufacturing scheduling I"	24 Ketrina Katragini, Eva Vallada and Rubén Ruiz. Rescheduling flowshops under simultaneous disruptions 15 Luis Fanjul, Federico Perea and Rubén Ruiz. Algorithms for the Unrelated Parallel Machine Scheduling Problem with additional Resources 17 Rubén Ruiz and Quan-ke Fan. Simple greedy methods for scheduling hybrid flowshops with due date windows 31 Companys Ramon and Imma Ribas. Efficient Constructive procedures for the distributed blocking flowshop scheduling problem 40 Julián Andrés Zapata, Martín Darío Arango and Carlos Andrés. Metaheuristics For Goods Distribution 245 Sylvère Kemmoe T., Damien Lamy and Nikolay Tchevnev. A Metaheuristic based on Simulation for Stochastic Job-Shop Optimization
	T1.2 Special Session "Realistic manufacturing scheduling II"	268 Sara Hatami, Rubén Ruiz and Carlos Andrés-Romano. Heuristics for a Distributed Parallel Machine Assembly Scheduling Problem with Eligibility Constraints 44 Kathrin Benkel, Kurt Jorntsen and Rainer Leisten. Variability Aspects in Flowshop Scheduling Systems 98 Quang-Chieu Tu, Jean-Charles Billaut and Jean-Louis Bouquard. Tabu search algorithms to minimize the total tardiness in a flow shop production and outbound distribution scheduling problem 99 Sonja Rohmer and Jean-Charles Billaut. A two-agent model for production and outbound distribution scheduling 235 Bahman Naderi and Mehdi Yazdani. A mathematical model for the general reentrant shop scheduling
	T1.3 Special Session "Sustainable Supply Chains and Logistics I"	12 Youcef Bereriche and Daoud Ait Kadi. Reliability Analysis of Supply Chain for Contingency Operations 23 Luis J. Zeballos, Carlos A. Méndez and Ana P. Barbosa Póvoa. RISK MEASURES IN A MULTI-STAGE STOCHASTIC SUPPLY CHAIN APPROACH 42 Gracia Buiza Camacho, María Del Mar Cerdán, Sara Cepolina, Olivera Djordjevic, Aleksandar Djordjevic and Cristina González-Gaya. Current situation of the Mediterranean container ports regarding the operational, energy and environment areas 14 Bruna Mota, Ana Carvalho, Isabel Gomes and Ana Barbosa-Póvoa. Green supply chain design and planning 138 Hennie Husniah and Asep K. Supriatna. Optimal Number of Fishing Fleet with a Maintenance Contract for a Sustainable Fishery Industry with a Generalized Logistic Production Function 10 Hans-Otto Günther, Matthias Kannegiesser and Niels Autenrieb. Supply chains in the electric vehicle industry: Mathematical modeling and sustainable development
	T1.4 Special Session "Sustainable Supply Chains and Logistics II"	192 Fábio Fontes and Gilles Goncalves. Routing Problem with Pendular and Cyclic Service in a Hierarchical Structure of Hub and Spoke with Multiple Allocation of Sub-Hubs 230 Breno Barros Telles Do Carmo, Pierre Baptiste and Manuele Margni. Method to support the bi-level supplier choice: a LCA approach 213 Nadia Ndihaief, Olivier Bistorin and Nidhal Rezg. Problem Analysis of Logistic Platform based on Combined Forward and Reverse Flows: a Case Study 28 Plácido Moreno, Belarmino Adenso-Díaz, Sebastián Lozano and Santiago Garcia. Influence of the environmental impact of logistics operations on the centralization strategy 248 Renaud Allamano-Kessler, Joëlle Morana, Jesus Gonzalez-Feliu, Hamid Allaoui and Luc Doyen. Stability around the Hyper-LSP in French distribution channel: a "Prey-Predator" modeling 260 Pierre Fenies, Frédéric Gautier and Norbert Lebrument. An approach for the valorization of competitive intelligence practices in SME supply chains
	T2.1 Special Session "Supply Chain Dynamics"	67 Shouyu Ma, Ziad Jemai, Evren Sahin and Yves Dallery. Assortment decision in the Multi-Product News-Vendor Problem with Demand Substitution 77 Xun Wang and Stephen Disney. Reducing Order and Inventory Variability under Stochastic Lead-time and Correlated Demand 78 Qinyun Li and Stephen Disney. On Net Stock Amplification in the Damped Trend Order-Up-To System 102 Francisco Campuzano-Bolarin, Josefa Mula and Manuel Diaz-Madroñero. A supply chain dynamics model for managing perishable products under different e-business scenarios 104 Meriam Jardoui, Semaa Alami and Chafik Okar. What are the critical success factors for the implementation of supply chain performance measurement system in SMEs 155 Salvatore Cannella, Roberto Dominguez, Jose M. Framinan and Manfredi Bruccoleri. INSIGHTS ON PARTIAL INFORMATION SHARING IN SUPPLY CHAIN DYNAMICS
	T2.2 Special Session "Modelling, Simulation and Optimization of Transport Systems"	69 Wester Schoonenberg, Jesse Hols and Ali Diabat. A Cost Based Approach for a Crane Assignment and Scheduling Problem 93 Nedra Ben Taarit. A New Clustering Algorithm for the Inventory Routing Problem 157 Souhil Mouassa and Tarek Bouktir. Artificial Bee Colony Algorithm for Optimal Reactive Power Dispatch Problem 166 Grégoire Scano, Marie-José Huguet and Sandra Ulrich Ngueveu. Adaptations of k-Shortest Path Algorithms for Transportation Networks 209 David Casca, Eva Barrera and Alicia De Los Santos. On Setting Line Frequencies and Capacities in Dense Railway Rapid Transit Networks 209 Zeineb Bakrouf, Marko Mladenovic, David Duviols and Rabie Ben Attallah. Adaptive solution for 2D path planning
	T2.3 Special Session "Supply Chain Optimization in Healthcare Systems"	39 Farid Kariri, Sondès Chabane, Christian Tahon and Abdelghani Bekrar. Resilience-Based Performance Assessment of Strain Situations in Emergency Departments 106 Zahra Najjimi, Majid Salari, Jacques Renaud and Angel Ruiz. Operating a biomedical samples' laboratories network under stochastic demand 199 Dorcaf Daldoul, Issam Nouaouri, Hanen Bouchriha and Hamid Allaoui. Optimization on Human and Material Resources in Emergency Department 257 Driss Serrou and Abdellah Abouabdellah. Study pharmacies grouping impact on the performance of the hospital supply chain. 189 Kaoutar Jenoui and Abdellah Abouabdellah. Conception and implementation of a decision support system heuristic for selecting suppliers in the hospital sector
	T2.4 Regular Session "Production II"	18 Etienne Joubert, Marie-Alex Espinasse and Michel Nakhla. Patients flow optimization in ED: an operational research on the impacts of physician triage 227 Abdessamad Ali El Cadi, Rabie Ben Attallah, Wael Mladenovic and Abdelhakim Attia. A Variable Neighborhood Search (VNS) metaheuristic for Multiprocessor Scheduling Problem with Communication Delays 204 Mehdi Yazdani and Bahman Naderi. Three algorithms for university course timetabling problems 200 Idris Lalami, Yannick Frein and Jean-Philippe Gayon. A model for master production scheduling in automotive powertrain plants: a case study 137 Battala Olga, Delorme Xavier, Dolgui Alexandre, Finel Brigitte and Grimaud Frédéric. Flow Line Balancing Problem: a survey 55 Salem Alaymami and Saied Alminehali. MIXED INTEGER PROGRAMMING MODEL TO SOLVE QUAY CRANE ASSIGNMENT AND SCHEDULING PROBLEM
	T3.1 Regular Session "Human factors, Safety and Quality"	22 Yulia Ivanova, Rita Xinbulain, Eduard Baykayev, Vadim Mavrin and Eugene Vorlik. Creating a Safe Working Environment by Analyzing Ergonomic Parameters Workstations on the Assembly Conveyor 191 Bouargane Lalla and Cherkaoui Abdelghani. Towards an explicative model of human cognitive process in a hidden hazardous situation and a cognitive ergonomics intervention in railway environment 216 Achraf Ammar, Henri Pierreeval and Sabeur Elkasantini. A multiobjective simulation optimization approach to define teams of workers in stochastic production systems 117 Li-Ming Chen. How Does a Responsible Supplier Control Its Production under the Opportunity of Demand Expansion?
	T3.2 Regular Session "Industrial processes"	37 Christophe Duhamel, Benjamin Vincent, Nikolay Tchevnev and Libo Ren. Support Vector Machine and Monte Carlo Simulation for Robust Optimization of Industrial Processes 60 Dariusz Horia and Adam Owczarkowski. LQR ROBUST CONTROL STRATEGIES FOR 4DOF MODEL OF UNMANNED BICYCLE ROBOT WITH REACTION WHEEL 246 Hichem Haddou Benderbal, Mohammed Dahane and Lyes Benyoucef. A new Robustness index for machines selection in Reconfigurable Manufacturing System 47 Haslina Abdullah, Rizauddin Ramli, Dzuraidah Abd Wahab and Jaber Abu Qudeiri. Minimising Machining Airtime Motion with an Ant Colony Algorithm 233 Zennir Youcef and Bendib Riad. Modeling and Dependability Analysis of an Industrial Plant: Case Study 169 Zennir Youcef and Bendib Riad. The Dependability Control Analysis: Applied to centrifugal pumps in a oil petrochemical plant 110 Edgar Granda, Eric Norris and El González. Integrated cutting stock and inventory evaluation model in manufacturing environments with deferred production
T3.3 Regular Session "Production I"	114 Nabil Nahas and Mustapha Nour El Fath. Buffer allocation, machine selection and preventive maintenance optimization in unreliable production lines 122 Hajer Ben Mahmoud, Raouf Ketata, Taelb Ben Romdhane and Samir Ben Ahmed. Comparative Study of Fuzzy Hierarchical Hybrid Approaches for Control of Quality Management System 128 Sophie Hennequin and Laura Maria Ramirez Restrepo. A Fuzzy Hedging Point Policy for Sustainable Manufacturing System 131 Yuan Bian, Nathalie Bostel, David Lemoine, Thomas Yeung, Vincent Hovelleau and Jean-Laurent Viviani. Dynamic lot-sizing-based working capital requirement minimization model with infinite capacity 143 Fernandez Qaeze, Caroline Thierry and Guillaume Romain. Local and global optimization in raw material processing 21 Frédéricque Mayer, Vincent Boty and Monica David Le Bevalet. Contribution to NSD project management: application of some systems engineering principles 49 Amílcar Arantes, Pedro Fernandez Da Silva and Luis Miguel D. F. Ferreira. Delays in construction projects - Causes and impacts 46 Jing Peng, Quailid Jouini, Zied Jemai and Yves Dallery. Service Capacity Pooling in M/G/1 Service Systems 65 Cátia Barbosa and Américo Azevedo. Operations Strategy Frameworks in Manufacturing, Services and Product-Service Systems 158 Joao Leitao and Dina Pereira. Absorptive Capacity, Coopetition and Product Innovation: Assessing Italian and Portuguese Knowledge-based Service Firms	
T4.1 Regular Session "Risk Analysis"	7 Hanane Assellaou, Brahim Duhbi and Bouchra Frikh. An ANP-PROMETHEE model for supplier selection and a case study 13 Abroon Qazi, John Quigley, Alex Dickson, Barbara Gaudenzi and Sule Önel Kicik. Evaluation of Control Strategies for Managing Supply Chain Risks using Bayesian Belief Networks 27 Stephen Piriot, Francis Lepage, Eric Gnaedinger and Rene Kopp. IP/MPLS network modeling using Bayesian networks to improve double failure recovery 35 Mohamed Bahroun and Slim Harbi. Risk management in the modern retail supply chain: Lessons from a case study and literature review 76 Vanessa Patricia Manotas Niño, Philippe Clermont, Laurent Geneste and Ana X. Halabi. Towards a Model of Integration between Risk Management and Lesson Learned for Project Management 74 Mujde Erol Genovese, Derya Celik and Ziya Ulluhan. Analytic Network Process Approach for Automatic Teller Machines Deployment Problem	
T4.2 Regular Session "Product and Innovation"	63 Oufka Labbi, Latifa Ouzizi and Mohammed Douimi. A dynamic model for a simultaneous design of a product and its supply chain supported by PLM (Product Lifecycle Management) 237 Thomas Wolfenstetter, Simon Bründl, Kathrin Füller, Markus Böhm and Helmut Krömer. Towards a Requirements Traceability Reference Model for Product Service Systems 239 Thomas Wolfenstetter, Simon Bründl, Markus Böhm and Helmut Krömer. Why Product Service Systems Development is Special 119 Mete Sevinc and Gunduz Ulusoy. Innovation Clusters and Determinants of Innovativeness in Manufacturing Industries 222 Muhammad Akram and Colin Pileam. Critical Success Factors for Effective Risk Management in New product Development 109 Marcos Barros, Oscar Rossamini, Luis Dalla Valentina and Marco Oliveira. Analysis of time to market complexity: a case study of application of Bayesian networks as a forecasting tool	
T4.3 Regular Session "Information Systems"	33 Asma Boussellaa and Mourad Abed. Information System Design for Reverse logistics Management using UML 86 António Pires, Goran Putnik and Paulo Ávila. Value Analysis approach in the resources pre-selection of agile/virtual enterprises: domain of applicability and selection time 94 Giulia Bruno. Measuring product semantic similarity by exploiting a manufacturing process ontology 134 Fan Li, Alain Etienne, François Vernadat and Ali Siadat. BCVR: A Methodological Framework for Industrial Performance Management and Decision-Support 68 Cinzia Mariani, Giulio Gilja, Vincenzo Mistretta, Tommaso Piazza and Giovanni Vizzini. Improving interoperability of clinical documents: a case study of LOINC mapping in analysis laboratories 139 Alessandro Fontana, Marco Cinos, Marcio Sorini, Marino Alge, Luca Ganetta and Alberto Maggi. An advisory tool for sustainability-driven maintenance. A real case in mould and die industry	
T4.4 Regular Session "Operations and Lean"	70 Tajiri Ikram and Cherkaoui Abdelghani. Modeling the complexity of the relationship "Lean, Company, Employee & Cognitive Ergonomics": Case of Moroccan SMEs 92 María José González, Enrique Martín, Gracia Buiza, Manuel Hidalgo and Jaime Beltrán. Implementation of an Operation Management System in SMEs 173 María Del Mar Miras, José Antonio Dominguez-Machuca and Bernabé Escobar. Sustainability drivers, barriers and outcomes: Evidence from European High Performance Manufacturing companies 187 Nawal Ghazi, Gabriel Zambrano Rey, Abdelghani Bekrar, Damien Trentesaux and Mohamed Tadjine. A preliminary study on integrating operation flexibility within semi-heterarchical FMS control 36 Carlos Sanchis-Pedregosa, María Del Mar González-Zamora and José A. D. Machuca. Determinants of the outcomes of services outsourcing: an empirical study of transport services	

	Session	Ref. Authors, title	
Room 1	F1.1 Special Session "Industrial Performance Evaluation and Decision-Aiding I"	32 Bastien Rizzon, Vincent Clivillé and Sylvie Galichet. Decision Problem of Instrumentation in a Company involved in ISO 50001	
		50 Jacky Montmain, Lamia Berrah, Vincent Clivillé, Laurent Foulloy and Gilles Mauris. How to handle the Decision-Maker's awareness of industrial context in his objectives declaration:	
		81 Alexander Pulido-Rojano, J. Carlos García-Díaz and Vicent Giner-Bosch. A multiobjective approach for optimization of the multihead weighing process	
		105 Faran Ahmed and Kemal Kilic. Modification to Fuzzy Extent Analysis Method and its Performance Analysis	
		108 Nahla Chabbah, Ahmed Elleuch and Najoua Dridi. Cross-correlation analyses toward a prediction system of CPU availability in volunteer computing system	
		116 Samya Dahbi, Latifa Ezzine and Haj El Moussami. Multiple Regression Model for Surface Roughness Using Full Factorial Design	
Room 2	F1.2 Special Session "Industrial Performance Evaluation and Decision-Aiding II"	162 Jamal Fattah, Latifa Ezzine and Abdesalam Lachhab. Modeling of the Stock Management System Using Batch Deterministic and Stochastic Petri Nets (BDSPNs):«Application for Performance Evaluation»	
		175 Ibrahim Alhuraish, Christian Robledo and Abdessamad Kobi. Evaluation of the Operational Performance in Implementing Lean Manufacturing and Six Sigma	
		231 Moustapha Ahmed Bouh and Diane Riopel. Material handling equipment selection: new classifications of equipments and attributes	
		251 Sadok Turki and Nidhal Rezg. Performance Evaluation of a Closed Loop Manufacturing System Taking Into Account Delivery Activity and Degradation	
		203 David Bogataj, Damjana Drobne, Rebeka Rudolf, Marija Bogataj and Domen Hudoklin. Evaluation of investments in smart measurement devices controlling Cold Supply Chains through nanotechnology where smart cities are	
Room 3	F2.1 Special Session "IFSTTAR I"	2 Zakaryae Boudi, El Miloudi El Koursi and Simon Collart-Dutilleul. Colored Petri Nets formal transformation to B machines for safety critical software development	
		16 Pengfei Sun, Philippe Bon and Simon Collart-Dutilleul. Model transformation from coloured Petri nets with prioritized transitions to B machines:	
		20 Antoine Ferlin, Philippe Bon, Simon Collart-Dutilleul and Virginie Wiels. Parallel verification of temporal properties using dynamic analysis:	
		30 Francesco Rotoli, Elena Navajas Cawood and Lorenzo Vannacci. Enclosing rail capacity/punctuality in accessibility measures: a DEA/AHP approach	
		72 Alain Faivre, Arnault Lapitre, Agnes Lanusse, Matthieu Perin, Subeer Rangra, Mohamed Sallak and Walter Schön. Two methods for modeling and verification of safety properties of railway infrastructure:	
Room 4	F2.2 Special Session "IFSTTAR II"	79 Paola Pellegrini, Grégory Marlière and Joaquin Rodriguez. Real-time railway traffic management optimization and imperfect information: preliminary studies:	
		171 Adnen El Amraoui and Khaled Mesghouni. Performing Enhanced Rail Formal Engineering Constraints Traceability: Transition Modes	
		F3.1 Regular Session "Manufacturing"	211 Dan Zheng, Hong Zheng, Dongni Li and Miao Li. An Artificial Bee Colony with Aging Leader in the Elite Group Approach for Intercell Scheduling Considering Transportation Capacity
			112 Philippe Thomas, Marie-Christine Suhner and André Thomas. Reduced simulation model for flow analysis in a sawmill internal supply chain
			178 Raul Cortes-Fibla, Pilar I. Vidal-Carreras and Jose P. Garcia-Sabater. Considering the effect of demand diversity on the performance of different production strategies for the economic lot scheduling problem
156 Matthieu Godichaud, Lionel Amodeo and Mustapha Hrouga. Metaheuristic based optimization for capacitated disassembly lot sizing problem with lost sales:			
172 Gouiaa Amal, Dellagi Sofiene, Achour Zied and Erray Walid. Integrated Quality-Maintenance policy with Reworking Activity			
Room 3	F3.2 Regular Session - Industrial Roundtable		
Room 4	F4.1 Regular Session "Logistics III"	141 Kahina Koulougli, Amin Chaabane and Lionel Amodeo. Joint Lot-Sizing and Transportation Pooling for Global Supply Chain	
		126 Joana Oliveira Rosado and Susana Relvas. Integral Supply Chain Performance Management System Design and Implementation	
		240 Mohammed Hichame Benbitour, Evren Sahin and Aurélien Barbieri. A comparison of different cross-docking organizations in a JIT manufacturing system; application in the automotive industry	
		208 Nathalie Bostel, Pierre Dejax and Mi Zhang. A Model and a Metaheuristic Method for the Hub Location Routing Problem	
		38 Rahmouni Mouna and Hennet Jean-Claude. Determining the optimal routes in the multi-product multi-site joint delivery problem	
Room 4	F4.2 Regular Session - Conference P. Coucke	188 Luis Miguel Escobar Falcón, David Alvarez Martinez, John Willmer Escobar, Rodrigo Linfati and Mauricio Granada. A hybrid metaheuristic approach for the Capacitated Vehicle Routing Problem with Container Loading Constr	