Building a Resilient Future

WEDNESDAY JUNE 1

9.00 – 17.00 REGISTRATION

9.00 – 12.30: STUDENT COMPETITION – Salah E. Elmaghraby’s Award

9.00 – 9.30: Ludwig Dumetz - ATP vs CTP policies in co-production context: the winner is not always the expected one

9.30 – 10.00: Nicolas Lenoble - Optimization of order batching in a picking system with a Vertical Lift Module

10.00 – 10.30: Sihem Ben Jouida - A Game-theoretic Approach for Coalitions Formation in a Collaborative Inventory-Distribution problem

10.30 – 11.00: Coffee break

11.00 – 11.30: Helia Sohrabi - On Comparing Dedicated and Hyperconnected Distribution Systems: An Optimization-Based Approach

11.30 – 12.00: Daniel Merchan - Transshipment Networks for Last-Mile Delivery in Congested Urban Areas

12.00 – 12.30: Dua Weraikat - Improving Sustainability in a Two-level Pharmaceutical Supply Chain through Vendor-Managed Inventory System

El Houssaine Aghezzaf

12.30 – 13.45 Student competition Meeting

14.00 -14.30 Welcome Speech

14.30 – 15.30 Plenary session

James B. Rice, Jr.
Deputy Director of the MIT Center for Transportation and Logistics, Massachusetts Institute of Technology, U.S.A.

«Quantifying Supply Chain Resilience»

Walid Klibi

15.30 – 16.00 Coffee break
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| **Healthcare and Humanitarian Supply Chains**
*Nico Vandaele*
Improving Sustainability in a Two-level Pharmaceutical Supply Chain through Vendor-Managed Inventory System
Dua Weraikut, Masoumeh Kazemi Zanjani and Nadia Lehoux
An implementation of a decision model: A national and international relief operation comparison
Krittiya Saksrisathaporn and Napaporn Reeveerakul
A prospective study on the analysis of risks associated with medicines supply chain in Morocco
Touria Benazzouz, Abdelwahed Echchatbi and Abdelkarim Charkaoui
Performance evaluation of a supply chain design by the integration of production capacity into the guaranteed service approach
Stef Lemmens, Catherine Decouttere, Nico Vandaele and Mauro Bernuzzi |
| **Supply Chain Quality Management I**
*Jose Benedito Sacomano*
Selecting Transport Routes of Grains in Brazil using Fuzzy Logic
Emerson Rodolfo Abraham, Rodrigo Carlo Toloi, João Gilberto Mendes Dos Reis and Adriane Pauluell Colossetti
How to improve the logistics issues during crop soybean in Mato Grosso state Brazil?
Rodrigo Toloi, João Gilberto Mendes Dos Reis, Oduvaldo Vendrametto, Sivanilza Teixeira Machado and Enio Fernandes Rodrigues
Information Systems in the Soybean Brazilian Supply Chain: an Analysis from the Trading Companies Perspective
Valdir Morales, Oduvaldo Vendrametto, João Gilberto Mendes Dos Reis, Rodrigo Carlo Toloi and Simone Aparecida Canuto
Quality Economic Losses in Brazil’s Pork Industry
Sivanilza Teixeira Machado, Irenilza de Alencar Naas, João Gilberto Mendes Dos Reis and Pedro Luiz de Oliveira Costa Neto
Measuring Passenger Transport Quality by Disutilities
Helcio Raymundo and João Gilberto Mendes Dos Reis |
| **Operations Management**
*Pierre Baptiste*
Assessment of re-planning solutions: distance measurement between schedules
Alain Ferrarini, Aline Cauvin and Sebastien Fournier
Optimization of order batching in a picking system with a Vertical Lift Module
Nicolas Lenoble, Yannick Frein and Ramzi Hammami
A New Model for Supply Chain Quality Management of Hospital Medical Equipment through Game Theory
Behnam Malmir, Safoora Dehghani, Farzad Firouzi Jahantigh and Mohammad Najjartabar
The ConWip Production Control System: a Literature Review
Yann Jaegler, Patrick Burlat and Samir Lamouri
A New Model for Supply Chain Quality Management of Hospital Medical Equipment through Game Theory
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The ConWip Production Control System: a Literature Review
Yann Jaegler, Patrick Burlat and Samir Lamouri |
| **Design of sustainable supply chains—Metrics and Integration**
*Valerie Botti-Genoulaz*
Classification of Economic, Environmental and Social Factors in Vehicle Loading and Routing Operations
Carlos A. Vega-Mejia, Jairo R. Montoya-Torres and Sardar M.N. Islam
A Net-Zero Carbon Supply Chain Model: Minimizing Cost of Onsite Renewable Energy
Tongdan Jin, An Pham, Clara Novoa and Cecilia Temponi
A Method for Work Teams Setup and Logistics
Ciao Siquitelli, Bruna Romeiro and José Ribeiro
Building an operational controlling system for continuous or hybrid supply chains
Fenis Pierre, Vincent Giard, Kawtar Retmi and Janah Saadi
Normalization in product Life Cycle Assessment: use of the new ILCD normalization and consequences on decisions making for the industries
Virgile Aymard and Valérie Botti-Genoulaz |
| **Enabling supply chain integration through effective management of shared resources**
*Foud Riane*
The challenges to develop the Brazilian automotive supply chain
Nivaldo Palmeri, Oduvaldo Vendrametto and João Gilberto Mendes Dos Reis
Waterways Cargo Transportation: A Comparison between Brazil and the United States
Moacir Freitas Junior, Rodrigo Toloi, João Gilberto Mendes Dos Reis and Oduvaldo Vendrametto
Modularization - Fact-Based Design to Increase "the Room to Maneuver"
Bjørnar Henrikse, Camilla Naume and Carl Christian Røstad
On Analysis of Trust Dynamics in Supply Chain Collaboration
Morice Daudi, Jannicke Baalsrud Hauge and Klaus-Dieter Thoben
Scheduling payments optimization to drive working capital performance within a supply chain
Fadela Elmiloudi, Foud Riane and Nikolay Tchernev |

18.30 SCIENTIFIC AND ADVISORY COMMITTEES MEETING
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<td>9.00 – 10.00</td>
<td>Plenary session</td>
<td>Thomas Choi</td>
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<td><strong>Center for Supply Networks ; Harold E. Fearon Eminent Scholar Chair of Purchasing Management, Arizona State University, U.S.A.</strong></td>
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<td>10.00 – 10.30</td>
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<td>Cecilia Temponi</td>
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<td>10.30 – 12.30</td>
<td><strong>Facility Location I</strong></td>
<td>Mozart Menezes</td>
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<td><strong>Strategic Idling And Dynamic Scheduling In Open-Shop Service Network: Case Study And Analysis</strong></td>
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<td>Oded Berman, Opher Baron, Dmitry Krass and Jinfu Wang</td>
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<td><strong>Forestry and wood transformation Logistics I</strong></td>
<td>Jean-Paul Bourrières</td>
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<td><strong>Procurement Planning of Forestry Industry Supply Chain – A Canadian Application</strong></td>
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<td>Tamires de Almeida Sfeir, José Eduardo Pecora Junior, Angel Ruiz and Luc Lebel</td>
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<td><strong>K-means Clustering Based Method for Production Flow Management</strong></td>
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<td><strong>Facing Rework Disturbances</strong></td>
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<td>Emmanuel Zimmermann, Mélanie Noyer, Philippe Thomas, Hind Bril El Haouzi and André Thomas</td>
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<td><strong>A Log- Truck Scheduling Model Applied to a Belgian Forest Company</strong></td>
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<td><strong>Jean-Sébastien Tancrez</strong></td>
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<td><strong>Kiln Drying Operation Scheduling with Dynamic Composition of Loading Patterns</strong></td>
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<td><strong>Sustainability and Waste Management</strong></td>
<td>El-Houssaine Aghezzaf</td>
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<td><strong>A Framework of Strategy Formulation to Improve Competitive Advantage in Sustainable Manufacturers and their Supply Chain</strong></td>
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<td>Walter Satyro, Jose Benedito Sacomano, Jose Celso Contador and Raymundo Helcio</td>
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<td><strong>Financial Aspects of Pig Production in Brazil: Case Study in a Farm using Sustainable Management</strong></td>
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<td>Marcelo Araújo, Sivanilza Machado, Irenilza Näas, Rodrigo Gonçalves and João Gilberto Reis</td>
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<td>11.07</td>
<td><strong>Decision support for collaborative urban logistics planning and management</strong></td>
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<td><strong>Jesus Muñuzuri</strong></td>
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<td><strong>Risk-aware roadmapping for city logistics in 2025</strong></td>
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<td>Jasper Bauwens, Ron van Duin, Bert Enserink, Lori Tavasszy and Kam Jzi Wong</td>
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<td><strong>Viability and potential demand capitation of urban freight tramway systems via demand-supply modelling and cost benefit analysis</strong></td>
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<td><strong>Jesus Gonzalez-Feliu</strong></td>
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<td><strong>The perspective of implementing a program of urban mobility in a municipality of São Paulo structured in modern business management techniques</strong></td>
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<td>Francisco José Santos Milreu, Pedro Luiz De Oliveira Costa Neto, Sergio Luiz Kyrillos, José Benedito Sacomano and André Duarte Stábile</td>
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<td><strong>A DSS approach for heterogeneous parallel machines scheduling with due windows, processor- &amp; sequence-dependent setup and availability constraints</strong></td>
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<td><strong>Assigning operators in a flow shop environment</strong></td>
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13.30 – 14.30 Plenary session
Arnd Huchzermeier
Director - Center for Collaborative Commerce
Professor in Production Management
WHU – Otto Beisheim School of Management, Germany
« Judgmental Demand Forecasting for Direct Sales: Segmentation by Type or Age? »
Valérie Botta-Genoulaz

14.30 – 16.00
1104 Integrated Supply Chain Network Design with Uncertainty
Mehdi Amiri-Aref
Location-Inventory Problem with stochastic demand and lead time
Mehdi Amiri-Aref, Walid Klibi and Mohamed Zied Babai
Production planning optimization in the wood remanufacturing mills using multi-stage stochastic programming
Rezvan Rafiei, Luis Antonio De Santa-Eulalia and Mustapha Nourefath
An Integrated Location-Inventory Model for Supply Chain Network with Correlated Demand
Mohammad Najjartabar, Sama Shetaban and Behnam Malmir

1105 Forestry and wood transformation Logistics II
Jean-Paul Bourrières
ATP vs CTP policies in co-production context: the winner is not always the expected one
Ludwig Dumetz, Jonathan Gaudreault, André Thomas, Nadia Lehoux, Philippe Marier and Hind Bril El-Haouzi
Decision theaters: a creative approach for participatory planning in the forest sector
Tasseda Boukherroub, Sophie D’Amours and Mikael Rönqvist
A bi-level decision model for timber transport planning
Kamel Moad, Julien François, Jean-Paul Bourrières, Luc Lebel and Morgan Vuillermoz

1107 Robust sustainable supply chain management
Masoumeh Kazemi Zanjani
Lumber supply chain tactical planning under demand and supply uncertainty
Omid Sanei Baqirian, Masoumeh Kazemi Zanjani and Mustapha Nourefath
Remanufacturing planning under uncertainty: a two-stage stochastic programming approach
Céline Gicquel, Sofía Kedad-Sidhoum and Dominique Quadri
A stochastic programming approach for closed-loop supply chain network design under uncertain quality status
Mohammad Jeihoonian, Masoumeh Kazemi Zanjani and Michel Gendreau

1108 Advances in Collaborative Logistics I
Sihem Ben Jouida
Collaborative shipping under different cost-sharing agreements
Valeria Padilla Tinoco, Stefan Creemers and Robert Boute
Production and transportation planning based on a cooperative game approach
Yiting Wang, Jean-Christophe Deschamps and Rémy Dupas
A game-theoretic approach for Coalitions Formation in a Collaborative Inventory-Distribution problem
Sihem Ben Jouida, Saoussen Krichen and Walid Klibi

1153 Data-Intensive Analysis and Simulation in Supply Chains I
Jesus A. Jimenez
A Data-Intensive Analysis Augmented Simulation Model of a Distribution Center Operations
Jesus Jimenez, Francis Méndez-Medivilla and Cecilia Temporini
Exploring Strategies in Integrated Container Terminal Planning Tasks: A Data-intensive Simulation Game Analysis
Shalini Kurapati, Heide Lukosch, Scott Cunningham, Jan Kwakkel and Alexander Verbraeck
An improvement Approach for Bullwhip Effect in Multi-Product and Multi-Stage Supply Chain
Mahdi Ghaffari, Nikbakhsh Javadian and Fereshteh Narimani

16.00 – 16.30: Coffee break

16.30 – 18.00
1104 Facility Location II
Mozart Menezes
Responsive Make-to-Order
Supply Chain Network Design
Robert Aboolian, Oded

1105 Supply Chain Quality Management II
João Gilberto Mendes dos Reis
Supply Chain Quality Management: a theoretical framework for integration measurement

1107 Physical Internet
Olivier Lobarte
Synchronomodal Transport: Pre-requisites, Activities and Effects.
Prince Singh, Marten van Sinderen

1108 Advances in Collaborative Logistics II
Mario Guajardo
Coalitions in collaborative forest transportation across multiple areas
Patrik Flisberg, Mikael Frisk, Mario

1153 Data-Intensive Analysis and Simulation in Supply Chains II
Jesus A. Jimenez
Written Press Logistics: How Clustering and Sales Forecasting Can
18.30 Welcome Cocktail Bordeaux Town Hall
FRIDAY JUNE 3 – INDUSTRIAL DAY: WHEN RESEARCH MEETS INDUSTRY

9.00 – 17.00: REGISTRATION
9.00 – 11.45 Plenary session and Round table 1 (Including a Coffee break: 10.15 – 10.30)
«Software Defined Digital SCM is moving to PEM (Platform Ecosystem Management) »

Animated by: Shoumen Palit Austin Datta
Senior Vice President for the Industrial Internet Consortium (IIC), Research Affiliate, Massachusetts Institute of Technology, U.S.A.
Experts Panel
Joseph J Salvo, Director, GE Global Research; Co-Founder, Industrial Internet Consortium
Alicia Asin Perez, Co-Founder & CEO, Libelium
Veena Pureswaran, Global Electronics Industry Leader, IBM Institute for Business Value.

11.45 – 13.15 Contributed Industrial session
1153
The Interconnected Era in Logistics
Olivier Labarthe
A Real-Time Monitoring Service

1108
Supply Chain Quality Management III
Helcio Raymundo
How the Quality of Cargo Railways

1110
Demand forecasting and estimation for smart sustainable urban logistics

1111
Building Resilient Supply Chains I
Iris Heckmann

1112
Data-Intensive Analysis and Simulation in Supply Chains III
Jesus A. Jimenez
Transportation Service effects the Competitiveness of Piauí state Brazil
Jose Alberto Alencar Luz, Joao Gilberto Mendes Reis and Jorge Luiz De Macedo
Information Systems in Supply Chain: A Study of the Furniture Cluster in the State of Paraná, Brazil
Elizangela Maria Menegassi de Lima, Jose Benedito Sacomano, Cristina Correa de Oliveira, Priscila Faczialli Tavares, Nélia Fernando Dos Reis, João Gilberto Mendes Dos Reis and Jair Minoro Abe
Relationship between Governance Instruments and Quality on Supply Networks: A Theoretical Proposal
Marcio Machado, Saturnina A Da Silva, Oswaldo de Souza, Jeane A Meneguelli and Carlos Eduardo Santos

13.15 – 14.15 Lunch

14.15 – 17.00 Plenary session and Round table 2 (Including a Coffee break: 15.30 – 15.45)
«The Physical Internet: Enabling Efficient and Sustainable Hyperconnected Supply Chains»
Animated by: Benoit Montreuil
Coca-Cola Material Handling & Distribution Chair, and Professor at Stewart School of Industrial & Systems Engineering at Georgia Tech, U.S.A.
Research member-CIRRELT-Interuniversity Research Centre on Enterprise Networks, Logistics and Transportation, Canada
Experts Panel
Brenda Hambleton, Chief Strategy & Marketing Officer at ES3
Sergio Barbarino, Research Fellow, Procter & Gamble, R&D Supply Network Innovation Center (SNIC)
Rod Franklin, Vice Chair of the European Technology Platform ALICE and Professor at Khühne Logistics University.

17.00 – 18.00 Networking break

18.15 Depart to Gala Dinner at Château Lafitte
SATURDAY JUNE 4

9.00 – 10.00 Plenary session
Klaus-Dieter Thoben
Professor, University of Bremen
«Experiences from Applying Cyber-Physical Systems (CPS) in Production and Logistics»
Bruno Vallespir

10.00 – 10.30: Coffee break

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<td>Auction-based mechanisms for transportation procurement</td>
<td>Monia Rekik</td>
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<td>Synchronizing Quay Cranes and Automated Vehicles for Ship Operations by Using a Bidding Procedure</td>
<td>Ivan Kristianto Singgih, Hans-Otto Guenther and Kap Hwan Kim</td>
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<td>Bundle-based auction framework for Québec timber allocations</td>
<td>Dua Weraikat, Marc-André Carle, Sophie D’Amours and Mikael Rönnqvist</td>
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<td>A two-stage stochastic model for the winner determination problem in transportation procurement auctions</td>
<td>Sami Ben Amor, Walid Klibi and Monia Rekik</td>
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<td>Jacques Lamothe</td>
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<td>Enhancing the Firm’s Performance Through The Business Process Modeling: A Literature Review</td>
<td>Najat Toufah, Anicia Jaegerler and Kacem Taj</td>
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<td>Frameworks for Strategic Fit of Planning Environments. A Case Based Exploratory Study</td>
<td>Sven-Vegard Buer, Jo Wessel Strandhagen, Jan Ola Strandhagen and Erlend Alfnes</td>
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<td>The Challenge of the Reverse Logistics of the High Tech After-Sales Equipment: A Comprehensive Study</td>
<td>Pâmela Catherine Florentino Da Silva, Pamela Garcez Massot de Novais, Fernanda Alves de Araújo, Sergio Luiz Kyrillos and José Benedicto Sacomano</td>
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<td>A Methodology for Making Offshoring Strategic Decisions in International Logistics</td>
<td>Fabien Peyrol</td>
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<td>10.30 – 12.30</td>
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<td>Jesus Gonzalez-Feliu</td>
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<td>Mining Customer-related Data to Enhance Home Delivery in E-commerce: an experimental study</td>
<td>Shenle Pan, Yufei Han, Bin Qiao, Etta Grover-Silva and Vaggelis Giannikas</td>
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<td>Assessing the implications of aggregating data by activity-based categories for urban freight trip generation modeling</td>
<td>Ivan Sanchez-Diaz and Christian Ambrosini</td>
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<td>Forecasting and Inventory Control</td>
<td>Mohamed Zied Babai</td>
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<td>A New Multi-Criteria ABC Inventory Classification Model Based on a Simplified Electre III Method and the Continuous Variable Neighborhood Search</td>
<td>Mehdi Firooz, Mohamed Zied Babai, Walid Klibi and Yves Ducq</td>
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<td>Adaptable machine learning classifiers for the class imbalance problem in ABC inventory classification</td>
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12.30 – 13.30 Lunch
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| 13:30 – 15:30| **Last mile distribution in large metropolitan regions**<br>**Hugo Yoshizaki**<br>The Impact of Last Mile Parking Availability on Commercial Vehicle Costs<br>Miguel Figliozzi and Chawalit Tipagornwong<br>Urban Freight by Rail: A MILP Modeling for Optimizing the Transport of Goods<br>Walid Behiri, Onur Ozturk and Sana Berraf<br>Transshipment Networks for Last-Mile Delivery in Congested Urban Areas<br>Daniel Merchan and Matthias Winkenbach<br>An Evaluation of Environmental Impacts of Different Truck Sizes in Last Mile Distribution in São Paulo City<br>Nathalia Zambussi, Claudio Cunha, Edgar Blanco, Hugo Yoshizaki and Carla Carvalho<br>Spatial characteristics of failed and successful E-commerce urban deliveries in Belgian Cities<br>**Iván Darío Cárdenas Barbosa and Joris Beckers**<br>**Vehicle routing with transshipments**<br>**Remy Dupas**<br>A Study of a Cross-Dock with Predefined Door Assignment and Truck Time Windows Using Petri Net<br>Lijuan Zhang, Benoit Trouillet and Frédéric Semet<br>A multi-operator genetic algorithm for the diversified replenishment problem<br>Islem Kaabachi, Yahyaoui Hiba, Dekdouk Abdulkader and Saoussen Krichen<br>A Column Generation Based Heuristic for the Dial-A-Ride Problem<br>Nastaran Rahmani, Boris Detienne, Ruslan Sadykov and François Vanderbeck<br>Three-dimensional one-to-one pickup and delivery routing problem with loading constraints<br>Oleksandr Lytvynenko, Oleksij Baranov, Igor Grebennik and Rémy Dupas<br>**Global risk management in supply chains**<br>**Cecilia Temponi**<br>Prerequisites for Successful Production Transfers in the Electronics Industry<br>Maria Flavia Mogos, Erlend Alfnes and Natalia Swahn<br>Conceptual Framework of Supply Chain Vulnerability<br>Lahmar Arij, François Galasso, Lamothe Jacques and Habib Chabchoub<br>Analyzing the Lean Manufacturing Challenges to Sustain Flexible Aeronautic Industry<br>Aicha Amrani, Yves Ducq and Catherine Goetz<br>Stacking policy for solving the container stacking problem at a containers terminal<br>Chafik Razouk, Youssef Ben Adada and Jaouad Boukachour