2017 IEEE International Conference on Service Operations and Logistics, and Informatics (SOLI 2017)

Bari, Italy
18-20 September 2017
Session MA1. Optimization in logistics
Chair: A. Sciomachen, Co-chair: S. Novellani
ABBRESCIA ROOM

16:30 Daniela Ambrosino and Anna Sciomachen.
Investment evaluation in seaports for increasing the rail split modality in multimodal freight networks.....181

16:50 Claudia Caballini, Ilaria Rebecchi and Simona Saccone.
Maximizing road carriers profit by combining trips and sizing the carrier coalition.....102

17:10 Mauro Benza, Chiara Bersani, Davide Giglio and Roberto Sacile.
Mixed Vendor/Retailer management of zero-cost multi-inventory systems .....74

17:30 Mauro Dell’Amico and Stefano Novellani.
A two-echelon facility location problem with stochastic demands for Urban Construction Logistics .....90

17:50 Augusto Urru, Marco Bonini and Wolfgang Echelmeyer.
The STIC analysis: a decision support tool for technology related investments in logistics .....33

Tuesday, September 19th
09:00 Plenary session III
The future of urban mobility: moving people or goods?
Speaker: Sergio M. Savaresi
Chair: S. Reveliotis
ABBRESCIA ROOM

In the next decades a major change in the personal-mobility model is expected, in particular in urban and metropolitan areas. The main driver of this change will be the need of a drastic reduction of traffic, CO2 emissions and pollutant emissions, and the attempt to achieve a significant reduction of accidents and fatalities related to mobility. To this purpose, the electrification of vehicles, the car-sharing ownership model, and the robotization of the driver will be the main trends. A fundamental question still remains open: to which extent the virtual mobility of people will replace the traditional “physical” mobility, and how this will affect goods mobility.

10:00 Coffee Break

Session TM1A. New trends in Smart mobilities
Chair: S. Digiesi, Co-chair: H.J.D. Lopez
ABBRESCIA ROOM

Online Scheduling of a Fleet of Autonomous Vehicles Using Agent-Based Procurement Auctions .....114

10:50 Salvatore Digiesi, Maria Pia Fanti, Giovanni Mummmolo and Bartolomeo Silvestri.....248
Externalities Reduction Strategies in Last Mile Logistics: A review.

11:10 Héctor Jalil Desirena López, Mario Siller and Iván Huerta.
Internet of Vehicles: Cloud and Fog Computing Approaches .....211
Session TM1B. Data Collection Methods
Chair: K. Miyamoto, Co-chair: N. Melão
JAPIGIA ROOM (1st FLOOR)

10:30 João Reis, Marlene Amorim and Nuno Melão. 
*Omni-channel Service Operations: Building Technology-based Business Networks* ....96

10:50 Kohtaroh Miyamoto, Akira Koseki and Masaki Ohno. 
*Effective Data Curation for Frequently Asked Questions* ....7

11:10 Kohtaroh Miyamoto, Hironori Takeuchi, Satoshi Masuda and Futoshi Iwama. 
*Hierarchical Context Supplementation for Consecutive Question Answering* ....1

Special Session SS3. Sustainable Logistics
Chair: S. Digiesi, Co-chair: M. Melancini
ABBREGIA ROOM

11:30 Martina Baglio, Elisabetta Garagiola and Fabrizio Dallari. 
*Outsourcing strategies and distribution models in Italian Pharma Supply Chain* ....175

*Smart Parking management in a Smart City: costs and benefits* ....27

12:10 Gino Marchet, Marco Melacini, Sara Perotti, Monica Rasini and Elena Tappia. 
*Logistics for omni-channel retailing: modeling multiple distribution configurations* ....21

12:30 Francesco Boenzi, Salvatore Digiesi, Francesco Facchini and Giovanni Mummolo. 
*Electric and LPG forklifts GHG assessment in material handling activities in actual operational conditions* ....127

Special Session SS5. Planning, scheduling, coordination, and allocation of resources in logistics and transportation systems
Chair: M. Dotoli, Co-chair: R. Carli
JAPIGIA ROOM

11:30 Michele Dassisti, Yasamine Eslami and Matin Mohaghegh. 

11:50 Francesco Basile, Pasquale Chiacchio and Emiliano Di Marino. 
*An auction-based approach for the coordination of vehicles in automated warehouse systems* ....121

12:10 Raffaele Carli and Mariagrazia Dotoli. 
*A Decentralized Control Strategy for Optimal Charging of Electric Vehicle Fleets with Congestion Management* ....63

12:30 Mouna Mnif and Sadok Bouamama. 
*A multi-objective formulation for multimodal transportation network's planning problems* ....144
International Workshop on IoT applications in Intelligent Transportation Systems and Logistics - Invited

Chair: M. P. Fanti
ABBRESCIA ROOM

14:00 Workshop opening session

14:20 Roberto Minerva.
IoT Challenges: Technological, Business and Social aspects.....N/A

15:00 Domenico Rotondi.
IoT: reshaping Security & Privacy approaches.....N/A

15:40 Coffee Break

Session TA1B. Decision Support Systems and Robust Design
Chair: M. Kvet, Co-chair: G. Pedroncelli
JAPIGIA ROOM

14:00 Beatrice Di Pierro, Giorgio Iacobellis, Biagio Turchiano and Walter Ukovich.
Performance Assessment for Intermodal Transportation Systems: a Case Study.....236

14:20 Maria Pia Fanti, Giovanni Pedroncelli, Michele Roccotelli, Stefano Mininel, Gabriella Stecco and Walter Ukovich.
Actor Interactions and Needs in the European Electromobility Network.....162

14:40 Marta Janackova and Alzbeta Szendreyova.
Appropriate Number of Emergency Medical Service Stations.....51

15:00 Marek Kvet and Jaroslav Janacek.
Iterative Approaches to Design of Robust Emergency System.....13

15:20 Jaroslav Janacek and Marek Kvet.
Efficient Robust Design of Public Service System.....17

15:40 Coffee Break

International Workshop on IoT applications in Intelligent Transportation Systems and Logistics 2017 - Session
Chair: R. Minerva, Co-chair: D. Rotondi
ABBRESCIA ROOM

16:10 João Ferreira, Ana Lucia Martins, Vitor Monteiro, Joao L. Afonso and Jose Afonso.
Mobile Device Sensing System for Urban Goods Distribution Logistics.....187

16:30 Jose A Afonso, Ruben A. Sousa, João Ferreira, Vitor Monteiro, Delfim Pedrosa and Joao L. Afonso.
IoT System for Anytime/Anywhere Monitoring and Control of Vehicles’ Parameters.....193

16:50 Valentino Sangiorgio, Silvia Martiradonna, Giuseppina Uva and Fabio Fatiguso.
An Information System for Masonry Building Monitoring.....230

17:10 Agostino Marcello Mangini, Maria Pia Fanti, Giorgio Iacobellis, Walter Ukovich and Ilario Precchiazi.
A Flexible Platform for Intermodal Transportation and Integrated Logistics .....224
Session TA2B. Cost assessment and service improvement  
Chair: K. Galananan, Co-chair: P. Hillmann  
JAPIGIA ROOM

16:10 Kugamoorthy Gajanana, Aly Megahed, Shubhi Asthana, Valeria Becker, Taiga Nakamura and Mark Smith.  
*A Method for Estimating Annual Cost Reduction of IT Service Deals*........45

16:30 Peter Hillmann, Bastian Kühnel, Tobias Uhlig, Gabi Dreo and Oliver Rose.  
*Optimized Travel to Meetings on a Common Location of Geographical Distributed Participants*........139

16:50 Jared Magrath and Mike Brady.  
*Evaluating Different Methods For Determining Road Grade Best Suited to Advanced Bus Transportation Systems* ....108

17:10 Isaque Eberhardt, Bernardo A. Furtado, Leisy M. A. Teixeira, Adelaida P. Fonseca, Pastor W. G. Tacô and Sergio R Granemann.  
*Supply-Demand of Grain Storage Facilities in Mato Grosso State in Brazil* .......58

17:30 Sergio Monteleone, Mauro Sampaio and Rodrigo Filev Maia.  
*A novel deployment of smart Cold Chain system using 2G-RFID-Sys temperature monitoring in medicine Cold Chain based on Internet of Things* ....205

17:50 Asma Troudi, Sid Ali Addouche, Sofiene Dellagi and Abderrahman El Mhamedi.  
*Post-Production Analysis Approach for drone delivery fleet* ....150

20:00 Social Dinner

---

**Wednesday, September 20th**

Session WM1. Routing Problems  
Chair: A. M. Mangini, Co-chair: F. Nucci  
ABBRESCIA ROOM

09:00 Francesco Nucci.  
*The multi-shift single-vehicle routing problem under fuzzy uncertainty* ....156

09:20 Maria Pia Fanti, Agostino Marcello Mangini, Giuliana Rotunno, Thomas Hlasny and Biagio Turchiano.  
*Optimal Fuel Consumption for Heavy Trucks: a Review* ....80

09:40 Zuzana Borcinova and Stefan Pesko.  
*The Lexicographical Capacitated Vehicle Routing Problem* ....86

10:00 Angelo Parchitelli, Francesco Nocera, Giorgio Iacobellis, Marina Mongiello, Tommaso Di Noia and Eugenio Di Sciascio.  
*A pre-process clustering methods for the Waste Collection Problem* ....242
10:20  Greyson Daugherty, Spiridon Reveliotis and Gregory Mohler.  
Optimized Multi-Agent Routing in Shared Guidepath Networks .....68

10:40  
Coffee Break

Session WM2. Scheduling algorithms  
Chair: J. Janacek, Co-chair: X. Wang  
ABBRESCIA ROOM

11:10  Xixi Wang, Farouk Yalaoui and Frederic Dugardin.  
Genetic algorithms hybridized with the Self Controlling Dominance to solve a Multi-Objective Resource Constraint Project Scheduling Problem .....39

11:30  Kaustav Kundu and Alberto Portioli Staudacher.  
Order review and release methods in internal logistics of a MTO company .....133

11:50  Michal Koháni and Jaroslav Janacek.  
Acceleration strategies of the column generation method for the crew scheduling problem .....54

12:10  Closing session