WIN-LOG 2013

The international Workshop on Innovation for Logistics

www.innovazione-rdlog.it/winlog2013

November 14-15, 2013
Hotel La Principessa – Campora S. Giovanni, Italy

Workshop Program

WIN-LOG REGISTRATION DESK - OPENING HOURS
Thursday Nov 14, 2013: Morning 8.30 – 12:30 / Afternoon 14.00 – 16.30
Friday Nov 15, 2013: Morning 8.30 – 12:30 / Afternoon 14.00 – 16.30

COFFEE BREAKS
Thursday Nov 14, 2013: Morning 10:30 – 11:00 / Afternoon 15:30 – 16:00
Friday Nov 15, 2013: Morning 10:30 – 11:00

LUNCHEONS
Thursday Nov 14, 2013: 12:30 – 14:00
Friday Nov 15, 2013: 12:30 – 14:00

WIN-LOG SOCIAL EVENTS & TOURS
Thursday Nov 14, 2013, 20:00 - 23:00
WIN-LOG 2013 GALA DINNER

Friday Nov. 15, 2013, 14:00 - 18:00
Visit to the Gioia Tauro Port

WIN-LOG EXPOSITION
Thursday Nov 14, 2013: Morning 8.00 – 12:30 / Afternoon 14.00 – 16.30
Friday Nov 15, 2013: Morning 8.30 – 12:30 / Afternoon 14.00 – 16.30

THURSDAY, NOVEMBER 14, 2013

WIN-LOG 2013 Opening Ceremony, 10:00-10:30, Room Plenary
Plenary Session – All attendees invited
Welcome Addresses

WIN-LOG Opening Ceremony – Keynote Speakers - 11:00-12:30, Room Plenary
Plenary Session – All attendees invited
Chair: Francesco Longo, University of Calabria

- **11:00 – 11:20** – Dr. Francesco De Bonis, CEO R&D.LOG, An Overview on the new Calabrian Logistics Pole: partners, logistics services and ongoing research projects
- **11:20 – 11:50** – Dr. Francesco Longo, University of Calabria, Modelling and Simulation solutions for decision support and training in logistics and transportation
- **11:50 – 12.30 -** Prof. Miquel Angel Piera, Autonomous University of Barcelona, The role of advanced models as decision support tools in the Transport Logistics area

12:30 – 12:35 - Photo Opportunity (Plenary)

PRESENTATION SESSIONS

SESSION: T-TRANS Case Studies Presentation - Session I, 14:00:00-15:30:00, Room 1
Chair: Miquel Angel Piera, Autonomous University of Barcelona

T-TRANS (www.ttransnetwork.eu) is a project funded by the European Commission in the VII Framework program. T-TRANS project aims at providing information on innovation mechanisms for the Intelligent Transportation Systems (ITS) domain, encouraging and facilitating an accelerated market deployment of related innovative products and services. During the session 4 case studies related to the project will be presented and discussed:

- Case Study 1 - Smart grid: connection, charging and storage of energy. Efficient use of intelligent control systems for battery and network management.
  Prof. Miquel Angel Piera, Autonomous University of Barcelona
- Case Study 2 – Revenue Management technologies for freight transport
  Dr. Lorenzo Castelli, Università degli Studi di Trieste
- Case Study 3 – Revolution in intermodal transport units, Intelligent intermodality
  Mrs. Susanne Kellberger, Fraunhofer-Center for Maritime Logistics and Services
- Case Study 4 – Rail network technological system wide approach
  Mr. Teun Ploeg – DNV KEMA

SESSION: Innovation for Logistics – Session II, 14:00-15:30, Room 2
Chair: Yuri Merkuryev, Riga Technical University

- **Advanced Training based on Modeling and Simulation in Container and Car Terminals**
  Francesco Longo, Letizia Nicoletti, Alessandro Chiurco, Francisco Spadafora
- **Integrated Space-Ground Floods Monitoring**
  Semyon Potryasaev, Viacheslav Zelentsov, Julia Petuhova, Yuri Merkuryev, Sergey Rogachev
- **Robust Multi-Stage Stochastic Approach To Closed-Loop Supply Chains**
  Luis J. Zeballos, Carlos A. Méndez, Ana P. Barbosa Povoa, Augusto Q. Novais
- **The Transport-Logistics Operations Performance Evaluation In The Supply-Chain**
  Valery Lukinskiy, Vladislav Lukinskiy, Daria Zamaletdinova
- **Polycyclic Aromatic Hydrocarbons (PAHs) exposure estimation in sustainable logistic activities**
  Salvatore Digiesi, Francesco Facchini, Giorgio Mossa, Giovanni Mummolo

SESSION: T-TRANS: Innovation and commercialization mechanisms for the Intelligent Transportation Systems (ITS). Framework and cases - Session III, 16:00:00-17:30:00, Room 1
Chair: Xavier Leal, Autonomous University of Barcelona
Panellists:

- Prof. Miquel Angel Piera, Autonomous University of Barcelona, Spain
- Francesco Calimeri, DLV System -TechNest University of Calabria, Italy
- Dr. David Morris, Coventry University Enterprise Ltd, UK
- Heike Fisher, Steinbeis Europa Zentrum, Germany

SESSION: Tutorials – Session IV, 16:00-17:30, Room 2

HeuristicLab Tutorial: A framework for heuristic and evolutionary algorithms. Application in Logistics and Supply Chains. Prof. Michael Affenzeller, Upper University of Applied Sciences
The proposed tutorial demonstrates how to apply and analyze (in the logistics and transportation area) metaheuristic optimization algorithms using the HeuristicLab open source optimization environment. It will be shown how to parameterize and execute evolutionary algorithms to solve combinatorial optimization problems (travelling salesman, vehicle routing) as well as data analysis problems (regression, classification). The attendees will learn how to assemble different algorithms and parameters settings to large scale optimization experiments and how to execute such experiments on multi-core or cluster systems. Furthermore, the experiment results will be compared using HeuristicLab's interactive charts for visual and statistical analysis to gain knowledge from the executed test runs. To complete the tutorial, it will be sketched briefly how HeuristicLab can be extended with further optimization problems and how custom optimization algorithms can be modeled using the graphical algorithm designer.

Queueing Models for Port Logistics. Prof. Pasquale Legato, Unviersity of Calabria.
Queuing stations and networks of queuing stations are well established tools for performance evaluation of systems where congestion phenomena need to be quantified since the earlier stage of system organization, in order to address any successive choice of design and system management. The points where congestion phenomena arise in port logistics are highlighted in this talk and related queuing models are presented. Fundamental hypotheses at the basis of the analytical tractability of queuing models are described and related approaches for both approximated closed formulas and algorithms are discussed. The effectiveness of analytical solutions versus discrete-event simulation-based approaches is focused, with the aim of i) explaining the available solution approaches and associated trade-offs and ii) giving guidelines on how to match applications and solutions. A set of tools, available on the web, for queuing analysis and simulation will be addressed.

FRIDAY, NOVEMBER 15, 2013

SESSION: Experiences, Critical Issues and Best Practices in the marine ports Logistics – Session I, 09:00-10:30, Room 1
Panellists:

- Dr. Francesco De Bonis, ICO-BLG, Gioia Tauro, Italy, *The car terminal experience at Gioia Tauro*
- Dr. Carmine Crudo, Medcenter Container Terminal Gioia Tauro, Italy, *Medcenter container terminal: your mega hub in the med; A global logistics platform for a real development of our region*
- Dr. James Brucato, EuroTerminal Palermo, Italy, *Critical Issues and best practices for Logistics at Euro Terminal Palermo*

SESSION: Innovation for Logistics – Session II, 9:00-10:30, Room 2
Chair: Emilio Jimenez, University of La Rioja

- **International Railway Plannification: A Real Case**
  Rosa Rios Prado, Diego Crespo Pereira, David del Rio Vilas, Alejandro Garcia del Valle
- **Advanced Management Systems For Agile And Resilient Supply Networks In Uncertain Industrial Framework**
  Emilio Jiménez, Francisco Javier Bermejo, Julio Blanco, Eduardo Martínez, Juan Carlos Sáenz-Díez
- **The impact of agility on the performance of a supply chain: a simulation study**
  Eleonora Bottani, Roberto Montanari, Marta Rinaldi
- **A Multi-Objective Methodological Approach For Mapping Material Flows And Optimizing Layout**
  Fabio De Felice, Antonella Petrillo, Alessandro Silvestri,
- **Solution approaches for determining user-oriented paths on dynamic networks**
  Luigi Di Puglia Pugliese, Francesca Guerriero

SESSION: New Project Opportunities: Projects Experiences – Session III, 11:00-12:30, Room 1
Chair: Francesco Longo, University of Calabria

- **The HABITAT Training and Exercise System**
  Francesco Longo, University of Calabria
- **The SMOB Project Experience**
  Carlo Giglio, University of Calabria
- **The HOPE Project**
  Antonio Congiusta, ITACA
- **The maritime perspectives: experiences in traceability for people and vehicle**
  Domenico Spinelli, Wide Pilot
- **The Intraregio Project Experience**
  Francesco Mari, University of Calabria - Osvaldo Summaria, INNOVA SpA

SESSION: New Funding Opportunities and Technology Transfer – Session IV, 11:00-12:30, Room 2
Chair: Yuri Merkuryev, Riga Technical University

- **HORIZON 2020: New Funding Opportunities**
  Osvaldo Summaria - INNOVA SpA, Italy
- **The Simulation Team Solutions in Logistics: the Virtual Port System for Training**
  Agostino Bruzzone, University of Genoa
- **Simulation experience in the port of Gioia Tauro: the do's and the don'ts**
  Rina Mary Mazza, University of Calabria, Italy
- **SoCool@EU projects and European initiatives**
  Meng Lu, Coordinator, SoCool@EU, The Netherlands

VISIT TO THE GIOIA TAURO PORT, 14:00 – 18:00

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R&D.LOG
LOGISTICA RICERCA E SVILUPPO

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The Center for Innovation in Trasports Logistics and Trasformation is a project co-financed by the European Union by the Italian State and the Region of Calabria - POR Calabria FESR 2007/2013