



Two-day International Conference

Department of Transport & Regional Economics / Research Center on Commodity Flows

**THE PORT AND MARITIME SECTOR : KEY
DEVELOPMENTS AND CHALLENGES**

WCTRS - Special Interest Group 2

11- 12 May 2015



| Monday 11 May | | |
|----------------------|---|---|
| 8.00 – 8.45hrs | Registration of participants - Hof van Liere | |
| 8.45 - 9.15hrs | Official opening | |
| | <i>Thierry Vanelstlander, Scientific conference co-ordinator</i> | |
| | <i>Jean-Pierre Timmermans, Chair Research Council UA</i> | |
| | Ports | Shipping |
| | Chain / Sustainability | |
| 9.15 – 10.30hrs | Governance | Macro |
| | Chain | |
| | <i>Session Chair: Marzieh Nazemzadeh</i> | <i>Session Chair: Hilde Meersman</i> |
| | <i>Room: Tassiszaal</i> | <i>Room: Willem Elschotzaal</i> |
| | Another model for Terminal Concessions' Selection Criteria | Uncertainty and long term forecasts in shipping: An analytical framework |
| | <i>Cardadeiro Eduardo, José Amado da Silva</i> | <i>Eleni Thanopoulou and Siri Pettersen Strandenes</i> |
| | Institutions and port performance: a case study of the Port of Tauranga, New Zealand | A system of models to estimate container maritime demand flows at international scale |
| | <i>Justin Pyvis and Malcolm Tull</i> | <i>Russo Francesco, Giuseppe Musolino, Vincenzo Assumma</i> |
| | The governance structure of port authorities: Finding the equilibrium between organisational efficiency and public objectives | Competition among container ports in the North Adriatic |
| | <i>Peeters Chris, Jaap Reijling, Ad Verbrugge</i> | <i>Elen Twrdy, Milan Batista, Maja Stojaković</i> |
| | | Identifying Key Enablers for Synchronodal Transport Chains in Central Europe |
| | | <i>Lisa-Maria Putz, Christian Haider, Alexandra Haller, Oliver Schauer</i> |
| | | Improving Mexican Port Supply Chains: A Regulatory and Policy Perspective |
| | | <i>Acciaro Michele</i> |
| 10.30 – 10.45hrs | Coffee break | |
| 10.45 - 11.15hrs | Keynote speech Prof. Costas Grammenos | |
| 11.15- 12.15hrs | Macro | Market |
| | Sustainable ports | |
| | <i>Session Chair: Jochen Maes</i> | <i>Session Chair: Ties Vanthillo</i> |
| | <i>Room: TassisZaal</i> | <i>Room: Willem Elschotzaal</i> |
| | The evolving links between seaports and manufacturing activities in Japan: A core-periphery approach | An analysis of entry and exit decisions in shipping markets under uncertainty |
| | <i>Guerrero David, Hidekazu Itoh</i> | <i>Balliauw Matteo</i> |
| | Transport contribution to the economic development, case study of Antwerp | Maritime Worldl Cities: opening the blackbox of global maritime management networks |
| | <i>Nazemzadeh Marzieh, Hilde Meersman, Thierry Vanelstlander</i> | <i>Verhetsel Ann</i> |
| | Research on China port FDI regional advantage in the process of attracting investment | Revealing the potential of maritime transport for blue economy in the Adriatic-Ionian region |
| | <i>Tu</i> | <i>Niavis Spyros, Theodora Papatheochari, Theofilos Kyratsoulis, Harry Coccossis</i> |
| | | Port Sustainability and Network Optimization |
| | | <i>L. SISLIAN, A. JAEGLER, P. CARIOU</i> |
| | | Environmental Conflicts in Port Cities: a Case Study of Port Jackson and Port Botany in Metropolitan Sydney |
| | | <i>Styhre Linda, John Black</i> |
| 12.15 – 13.30hrs | Walking Lunch | |



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| 13.30 - 15hrs | Operations | Operations | Chain |
| | <i>Session Chair: David Guerrero</i> | <i>Session Chair: Edwin van Hassel</i> | <i>Session Chair: Valentin Carlan</i> |
| | <i>Room: Tassiszaal</i> | <i>Room: Willem Elsschotzaal</i> | <i>Room: Greshamzaal</i> |
| | Multiple objective optimization in transportation systems. The case of seaport planning | Automatic ticketing on ferry crossings | Investigation of empty container repositioning at regional level |
| | <i>Brauers Willem</i> | <i>Solvoll Gisle</i> | <i>Javdani Zamani Saeed</i> |
| | Ports structural and operational benchmark: methodology and application to Mediterranean basin | Practical Logistics (Simulator) Training Concept for Nautical Personnel | Port and Inland Mode Choice from the Exporters' and Forwarders' Perspectives |
| | <i>Rosa Alessandra Polo, Stefano Ricci</i> | <i>Alexandra Haller, Lisa-Maria Putz, Oliver Schauer</i> | <i>Munajat Tri Nugroho, Anthony Whiteing, Gerard de Jong</i> |
| | Managing logistics portoperations based on a standardized framework | Ships times in port | Weakest link or strongest node? Prospects for inland ports development in transnational European corridors |
| | <i>Henrik Ringsberg and Kent Lumsden</i> | <i>Brian Slack, Claude Comtois</i> | <i>Patrick Witte, Bart Wiegmans</i> |
| | Discrimination at the ports – the welfare effects of giving commuters priority | Production of Tailor-Made Digital Charts for Pilots | The bundling of intermodal rail flows from and to seaports. Concept, performances and policies in Europe |
| | <i>Thor-Erik Sandberg Hanssen and Terje Andreas Mathisen</i> | <i>Moggert-Kägeler Friedhelm</i> | <i>Kreutzberg Ekki, Rob Konings</i> |
| 15 - 15.15hrs | Coffee break | | |
| 15.15 – 16hrs | Industry meets academia: the panel debate | | |
| | <i>Dimitrios Theologitis (Eur. Commission), Jean, Guy Haesevoets (BNP Paribas Fortis), Jean Verheyen (Nallian), Marc Beerlandt (MSC), Nik Delmeire (Eur. Shippers Council), Eddy Van de Voorde (UA)</i> | | |
| | <i>Room: Tassiszaal</i> | | |
| 16– 17hrs | Governance | Market | Chain |
| | <i>Session Chair: Rik Hollen</i> | <i>Session Chair: Saeed Javani</i> | <i>Session Chair: Eleni Thanopoulou</i> |
| | <i>Room: Tassiszaal</i> | <i>Room: Willem Elsschotzaal</i> | <i>Room: Greshamzaal</i> |
| | Contract Flexibility: Variable duration of seaport infrastructure PPPs | Constraints on Canadian Arctic maritime connections | A Green Wave for Barges: Scheduling locks on an inland waterway |
| | <i>Domingues Sergio</i> | <i>Marie-Andrée Giguère, Claude Comtois & Brian Slack</i> | <i>Verstichel Jannes</i> |
| | Insightful observations of trailer queues at congested container ports: How can we reduce congestion? | Unfolding arctic sea routes – Implications on the global shipping Market | Different modelling approaches to identify promising Twin hub networks |
| | <i>Ichio Motosu, Masahiko FURUICHI, Tamotsu NINOMIYA, Satoshi SUZUKI, Masako FUSE</i> | <i>Kiiski Tuomas</i> | <i>Kreutzberg Ekki, Rob Konings, Cathy Macharis, Cees Witteveen</i> |
| | | Homogenization in liner shipping industry (P3 vs. 2M) | Intermodal nodes and external costs: re-thinking, the current network organisation |
| | | <i>Golbazi Parviz</i> | <i>Ambrosino Daniela, Ferrari Claudio, Sciomachen Anna, Tei Alessio</i> |
| 17 - 17.15hrs | Coffee break | | |
| 17.15 – 18.30hrs | Macro | Operations | Sustainable ports |
| | <i>Session Chair: Yasmine Rashed</i> | <i>Session Chair: Tom Pauwels</i> | <i>Session Chair: Trevor Heaver</i> |
| | <i>Room: Tassiszaal</i> | <i>Room: Willem Elsschotzaal</i> | <i>Room: Greshamzaal</i> |
| | Port development at the west coast of South American port industry: challenges and opportunities for integrating hinterlands into the global supply chain | The maritime dimension of TEN-T in Europe. A MoS Prospective study | Sediment management in North Western European ports: a stakeholder's viewpoint |
| | <i>Leal</i> | <i>Grosso Monica, Ghiara Hilda</i> | <i>Lahlou Dounia</i> |



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| | The impact of world trade on the Port of Rotterdam and the wider region of Rotterdam-Rijnmond | The Strategic Factors Shaping Competitiveness for Maritime Clusters: An Overview | Why and how EcoPorts has contributed to the long-term strategic goals of the European Sea Ports Organisation: Implications for international port associations |
| | <i>Wim Heijman, Cornelis Gardebroek and Wouter van Os</i> | <i>Peter J. Stavroulakis, Stratos Papadimitriou</i> | <i>Hollen Rick M.A.</i> |
| | The chemical industry as a port-related activity: the case of the Antwerp cluster | Comparative Analysis of Naval Costs for Accessibility to Sardinia and Corsica | Challenges in Sustainable Container Terminal Operations |
| | <i>Vanthillo Ties</i> | <i>Stefano Carrese, Valerio Cuneo, Sergio Maria Patella</i> | <i>Caglar Volkan</i> |
| | Port Centric Logistics: case of Eastern Baltic Sea Region | The Venice Offshore-Onshore Terminal Concept | |
| | <i>Efimova Elena</i> | <i>Dimitrios Pachakis, Alessandra Libardo, Paolo Menegazzo</i> | |
| 18.30hrs - 19hrs | Moving to Town hall | | |
| 19hrs | Conference Walking Reception at Townhall | | |
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| Tuesday 12 May | | | |
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| 8.30 – 9.30hrs | Operations | Operations | Chain |
| | <i>Session Chair: Matteo Balliauw</i> | <i>Session Chair: Brian Slack</i> | <i>Session Chair: Frank Troch</i> |
| | <i>Room: Tassiszaal</i> | <i>Room: Willem Elschotzaal</i> | <i>Room: Greshamzaal</i> |
| | Optimizing manpower planning: experimentation in a transshipment container terminal | Off-Shore Enhanced Oil Recovery in the North Sea: How to match CO2 Supply and Demand Given Uncertain Market Conditions | Contestable port hinterlands: an empirical study |
| | <i>Di Francesco Massimo , Diaz-Maroto Llorente Nuria , Zanda Simone , Zuddas Paola</i> | <i>Compernelle, T., Welkenhuysen, K., Huisman, K., Piessens, K., Kort, P.</i> | <i>Ferrari Claudi, Acciaro Michele, Bardi Andrea, Cusano Maria Ines, Tei Alessio</i> |
| | Public financing of seaport infrastructures and services and port charges according to EU law, policies, proposals and case-law and national legal framework and case-law | Vessel Capacity Restrictions in the Fleet Deployment Problem. An Application to the Expansion of Panama Canal | Geo-prospective modelling of the sustainability of freight storage area in Mediterranean space of Motorway of sea (MoS) |
| | <i>Orru Elena</i> | <i>Herrera Rodriguez Manuel</i> | <i>Juste Ndayishimiye</i> |
| | Ports' Supply Chain Cyber Security Challenges | Optimal deployment of a cruise fleet | Port Community System from competition to collaboration within the supply chain |
| | <i>Polemi Nineta</i> | <i>Di Pillo Gianni</i> | <i>Carlan Valentin, Christa Sys, Thierry Vanelslander</i> |
| 9.30 – 9.45hrs | Coffee break | | |
| 9.45 – 10.15hrs | Keynote speech: Prof. Ennio Cascetta | | |
| | <i>Room: Tassiszaal</i> | | |
| 10.15 – 11.15hrs | Governance | Operations | Port Governance |
| | <i>Session Chair: Masoud Gargari</i> | <i>Session Chair: Koos Frouws</i> | <i>Session Chair: Miluse Tichavska</i> |
| | <i>Room: Tassiszaal</i> | <i>Room: Willem Elschotzaal</i> | <i>Room: Greshamzaal</i> |
| | Price determination for rental activities in French main seaports: the public ownership legal framework facing market forces | A Meta Heuristics for the Containership feeder routing problem with port selection process | Strategic value creation of ports for their region and country: The role of strategic connectivity |
| | <i>Magnan Marion</i> | <i>Mohammad Saied Fallah, Amir Hossein Tayebi, Parviz Golbazi, Mohammad Vaferi</i> | <i>Hollen Rick M.A</i> |
| | A system dynamics model for dynamic cost-benefit analysis of new port infrastructure in Flanders | Consequences of Applying a Bunker Adjustment Factor? | Implementation of the New Directive 2014/23EU on the Award of Concession Contracts - Croatian Example |
| | <i>Koen De Winne</i> | <i>Hilde Meersman, Yasmine Rashed, Christa Sys, Eddy Van de Voorde, Thierry Vanelslander</i> | <i>Goran Vojković, Melita Milenković</i> |
| | | Flexible pricing policies in Suez canal | Talking up a Storm? Political Rhetoric and Discursive Constructions in EU Port Policy-Making |
| | | <i>Samer Hassan Okasha, Mohamed Mahmoud Helal</i> | <i>Richard Thomas, Peter Turnbull</i> |
| 11.15 – 11.30hrs | Coffee break | | |
| 11.30 – 12.30hrs | Macro | Operations | Session Française |
| | <i>Session Chair: Koen De Winne</i> | <i>Session Chair: Christa Sys</i> | <i>Session Chair: Claude Comtois</i> |
| | <i>Room: Tassiszaal</i> | <i>Room: Willem Elschotzaal</i> | <i>Room: Greshamzaal</i> |
| | Rotterdam: port city, port with a city or city with a port? | EEDI and/or speed reduction to reduce harmful emissions for seagoing RoRo vessels from the economic and the societal point of view | A novel integrated Continuous Berth allocation problem and Quay Cranes Assignment and Scheduling Problem |
| | <i>Kuipers Bart, Walter Manshanden, Menno Huijs</i> | <i>Frouws Koos</i> | <i>Morharami Gargari Masoud, Thierry Vanelslander, Kenneth Sørensen, S. Javdani Zamani</i> |



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| | Competition of Imports and Port Pricing, Evidence from the US <i>Baert Lieselot</i> | Endless growth in container ship sizes to be stopped? <i>Malchow Ulrich</i> | Zones d'Activités Portuaires: essai d'application de la théorie des Parties Prenantes(TPP) <i>El Khayat Mustapha (Presenter: Oussama Elarbi)</i> |
| | The nature of economic activities in the neighbourhood of ports in Quebec? <i>Jean Dubé, Koffi Gbenyo</i> | Modeling multimodal freight networks: theoretical issues and practical implications <i>Cascetta Ennio</i> | Le port d'Alger. Élément urbain structurant en devenir <i>Almi Saïd</i> |
| 12.30 – 14.15hrs | Lunch + brainstorm session | | |
| 14.15 – 15.15hrs | Operations <i>Session Chair: Ekki Kreuztberger</i> <i>Room: Tassiszaal</i> | Operations <i>Session Chair: Trevor Heaver</i> <i>Room: Willem Elschotzaal</i> | Port macro <i>Session Chair: Michele Acciario</i> <i>Room: Greshamzaal</i> |
| | Optimization of technological parameters logistics industrial park in the seaport <i>Morozova Iryna</i> | Economic Evaluation of the Environmental Impact of Shipping from the Perspective of CO2 Emissions <i>Ben-Hakoun Elyakim, Mordechai Shechter, Yehuda Hayuth</i> | Investigating the contribution of MED research projects to the European port and maritime related policies for the Mediterranean <i>Konstantinos Papoutsis, Eliza Gagatsi, Georgia Aifadopoulou, Aristos Halatsis</i> |
| | A Microsimulation Model for Real Time Management of Port Activities <i>Stefano Gori, Marco Petrelli</i> | LNG bunkering facility development in the Baltic Sea <i>Daria Gritsenko & Arnaud Serry</i> | The role of leading economic indicators in forecasting the container demand: A cointegration approach <i>Yasmine Rashed, Hilde Meersman, Christa Sys, Eddy Van de Voorde, and Thierry Vanelander</i> |
| | Performance analysis of Ro-Ro terminal: a study case in Italy <i>Gazzarri Alessandra</i> | Two-sided Markets in Cruise Economics <i>Jamie Chen</i> | An advanced shipcall forecast model for the Netherlands <i>Maes Jeroen, Marten Van den Bossche</i> |
| 15.15 – 15.30hrs | Coffee break | | |
| 15.30 – 16.30hrs | Governance <i>Session Chair: Joost Hintjens</i> <i>Room: Tassiszaal</i> | Operations <i>Session Chair: Sergio Dominguez</i> <i>Room: Willem Elschotzaal</i> | Sustainable shipping <i>Session Chair: Bart Kuipers</i> <i>Room: Greshamzaal</i> |
| | A complex adaptive simulation of port market concentration in a Cournot competition with investment projects <i>Koen De Winne</i> | Low Emission Engine Technologies for Future Tier 3 Legislations – Options and Case Studies <i>Wik Christer</i> | The Economics of Low Carbon Container Shipping <i>Acciario Michele</i> |
| | Enabling port efficiency by increased collaboration and information sharing <i>Mikael Lind, Sandra Haraldson, Mathias Karlsson, Richard T. Watson, Per-Erik Holmberg</i> | Economic modelling and analysis of the management of dredged marine sediments – development of a decision support tool <i>Harrington Joe, Murphy, J., Coleman, M., Jordan, D., Tangney, S., Debuigne, T., Szacsuri, G.</i> | Metaheuristics for possible upgrading from unimodal to intermodal transportation <i>Amir Hossein Tayebi, Mohammad Vaferi, Mohammad Saied</i> |
| | The role of Situational Awareness in Dynamic Port Operations: A Simulation Gaming Approach <i>Kurapati Shalini</i> | | Geography of Port Choice: Evidence form European Trade Flows <i>Kashiha Mona</i> |
| 16.30hrs | Closing + reception | | |