6th International Conference on Computational Logistics

Delft, The Netherlands, Sept. 23-25, 2015 -- http://realtimelogistics.info/

PROGRAM AT A GLANCE   (version: September 6, 2015)

Tuesday, Sept. 22	Wednesday, Sept. 23	Thursday, Sept. 24	Friday, Sept. 25

Tuesday, Sept. 22

9:00
9:00 Registration & coffee

10:00 Pre-conference workshop
**Coordination for
Real-Time Logistics**

Learn about and experience
new approaches for
control and planning of
complex logistical processes

(including 2x coffee break
and lunch)

17:00

17:30
Registration &
Welcome reception

Wednesday, Sept. 23

8:00
8:00 Registration & Coffee
9:00 Opening
9:30 Plenary 1
Break
10:30 Sessions 1a 1b
12:10 Lunch
13:30 Sessions 2a 2b
Break
15:30 Sessions 3a 3b
Break
17:00 Sessions 4a 4b
18:15

Thursday, Sept. 24

8:00
8:00 Registration & Coffee
9:00 Plenary 2
9:45 Plenary 3
Break
10:50 Sessions 5a 5b
12:30 Lunch
14:00 Sessions 6a 6b
Break
16:00 Sessions 7a 7b
17:40

19:00
Conference dinner

Friday, Sept. 25

8:30
8:30 Coffee
9:00 Sessions 8a 8b
Break
11:00 Sessions 9a 9b
11:50 ICCL 2016 & Closing
12:15 Lunch pickup
13:00

14:00
Excursion
Port of Rotterdam
and
APM Terminal Maasvlakte 2

19:00

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TECHNICAL SESSIONS PROGRAM

(version: September 14, 2015)

Note: A session slot is 25 minutes (for presentation + questions)

Wednesday, September 23, 2015

session	slot	title	authors
1a	1	Bootstrap estimation intervals using bias corrected accelerated method to forecast air passenger demand	Rafael Carmona-Benitez and Maria Rosa Nieto
Internal Coordination 1	2	On a pooling problem with fixed network size	Dag Haugland and Eligius Hendrix
chair: Beelaerts	3	Optimizing constraint test ordering for efficient automated stowage planning	Zhuo Qi Lee, Rui Fan and Wen Jing Hsu
	4	The value of unmanned aircraft operations for the transport of high time-value cargo	Bastiaan Hoeben, Wouter Beelaerts van Blokland and Sicco Santema

session	slot	title	authors
2a	1	Probabilistic analysis of online stacking algorithms	Martin Olsen and Allan Gross
Internal Coordination 2	2	Survey on operational perishables quality control and logistics	Xiao Lin, Rudy Negenborn and Gabriel Lodewijks
chair: Hendrix	3	Improving the estimation of arrival times along a vehicle route	Alexander Kleff
	4	A sample-based method for perishable good inventory control with a service level constraint	Eligius Hendrix, Karin Pauls-Worm, Roberto Rossi, Alejandro Alcoba and Rene Haijema

session	slot	title	authors
3a	1	A branch-and-price algorithm for the multi-compartment vehicle routing problem	Samira Mirzaei and Sanne Wøhlk
VRP 1	2	Considering lost sale in inventory routing problems for perishable goods	Samira Mirzaei and Abbas Seifi
chair: Maestre	3	Problem-specific state space design for anticipatory vehicle routing with stochastic customer requests	Ninja Soeffker, Marlin W. Ulmer and Dirk Mattfeld

session	slot	title	authors
4a	1	Scheduling locks in sequence with an emission objective	Ward Passchyn, Dirk Briskorn and Frits Spieksma
Water 1	2	Cooperative distributed collision avoidance based on ADMM for waterborne AGVs	Huarong Zheng, Rudy Negenborn and Gabriel Lodewijks
chair: Duviella	3	Improvement of the navigation conditions using a model predictive control - The Cuinchy-Fontinettes case study	Klaudia Horváth, Eric Duviella, Lala Rajaoarisoa, Rudy Negenborn and Karine Chuquet

session	slot	paper	authors
1b	1	Social welfare in repeated task allocation in transportation	Qing Chuan Ye and Yingqian Zhang
External Coordination 1	2	A new modelling approach of evaluating preventive and reactive strategies for mitigating supply chain risks	Abroon Qazi, John Quigley, Alex Dickson and Barbara Gaudenzi
chair: Ye	3	Order management in the offshore oil and gas industry	Henrik Andersson, Eirik F. Cuesta, Kjetil Fagerholt, Nora T. Gausel and Martine R. Hagen
	4	Materials flow control in hybrid make-to-stock/make-to-order manufacturing	Silvio Carmo-Silva, Nuno Fernandes, Guilherme Pereira, F. Rocha, L. Dias, Â. Lopes and E. Silva

session	slot	paper	authors
2b	1	Learning maritime traffic rules using potential fields	Ewa Osekowska and Bengt Carlsson
Computational Intelligence	2	Reducing port-related truck emissions: Coordinated truck appointments to reduce empty truck trips	Frederik Schulte, Rosa Guadalupe González Ramírez and Stefan Voss
chair: Halabi	3	Multiple trips combination for maximizing cost saving and minimizing empty trips in a containerized logistic networks	Claudia Caballini, Ilaria Rebecchi and Simona Sacone
	4	Computational intelligence to support cooperative seaport decision-making in environmental and ecological sustainability	Ana Halabi, Jairo Montoya-Torres, Deborah Richards and Nelson Obregon

session	slot	paper	authors
3b	1	Yard crane dispatching to minimize total weighted vessel turnaround times in container terminals	Shell Ying Huang and Ya Li
Inter Terminal Transport	2	A two phase approach for inter-terminal transport of inland vessels using preference-based and utility-based coordination rules	Shijie Li, Rudy Negenborn and Gabriel Lodewijks
chair: Pacino	3	A survey on the ship loading problem	Cagatay Iris and Dario Pacino

session	slot	paper	authors
4b	1	Capacity analysis of freight transport with application to the Danish and southern Swedish railway	Line Reinhardt, David Pisinger and Susanne Nordholm
Capacity	2	Application of discrete-event simulation to capacity planning at a commercial airport	L. Douglas Smith, Liang Xu, Ziyi Wang, Deng Pan, Laura Hellmann and Jan Fabian Ehmke
chair: Carmona-Benitez	3	Site selection of the New Mexico City Airport from the perspective of maximizing social benefit	Rafael Bernardo Carmona-Benitez, Octavio Fernandez and Esther Segura

Thursday, September 24, 2015

session	slot	title	authors
5a **Intermodal 1** chair: Nabais	1	A review of intermodal rail freight bundling operations	Qu Hu, Francesco Corman and Gabriel Lodewijks
	2	Impact of foresight in online-heuristic based shunting yard operations	Nikola Ilo, Benno Hüttler and Manfred Gronalt
	3	Pricing intermodal freight transport services: A cost-plus-pricing strategy	Le Li, Xiao Lin, Rudy Negenborn and Bart De Schutter
	4	Cooperative relations among intermodal hubs and transport providers at freight networks using an MPC approach	João Nabais, Rudy Negenborn, Rafael Bernardo Carmona Benitez and Miguel Ayala Botto
6a **VRP 2** chair: Fagerholt	1	Ant metaheuristic with adapted personalities for the vehicle routing problem	Nicolas Zufferey, Jaime Farres and Rémy Glardon
	2	An ant colony-based matheuristic approach for solving a class of vehicle routing problems	Umman Mahir Yildirim and Bülent Çatay
	3	A combined LNG routing and deteriorating inventory management problem	Yousef Ghiami, Tom van Woensel, Marielle Christiansen and Gilbert Laporte
	4	A decision support model for routing and scheduling a fleet of fuel supply vessels	Marielle Christiansen, Kjetil Fagerholt, Nikolaos Rachaniotis, Ingeborg Tveit and Marthe Øverdal
7a **Internal Coordination 3** chair: Mes	1	Consolidation of residual volumes in a parcel service provider's long-haul transportation network	Martin Baumung and Halil Guenduez
	2	Scheduling trucks in a cross-dock with mixed service mode dock doors	Peter Bodnar, Kaveh Azadeh and René de Koster
	3	Design of an efficient algorithm to determine an optimal location of parking areas for dangerous goods in the European road network	Maria Caro, Eugenio Fedriani and Angel Tenorio
	4	Dynamic multi-period freight consolidation	Arturo Pérez Rivera and Martijn Mes

session	slot	paper	authors
5b **External coordination 2** chair: Reis	1	Discrete speed in vertical flight planning	Zhi Yuan, Liana Amaya Moreno, Armin Fügenschuh, Anton Kaier, and Swen Schlobach
	2	An approach for the coordination in the Supply Chain using collaborative and cooperative mechanisms	Armando Guarnaschelli, Lorena Bearzotti and Cecilia Montt
	3	Supply chain simulation: A hybrid approach combining system dynamics and agent-based modeling	Reza Hesan and Behzad Behdani
	4	A novel hybrid simulation model to improve the order picking performance: Case study of an automated warehouse	Francisco Faria and Vasco Reis
6b **Transit & Maintenance** chair: Corman	1	A review of real time railway traffic management during disturbances	Wenhua Qu, Francesco Corman and Gabriel Lodewijks
	2	Model predictive control for maintenance operations planning of railway infrastructures	Zhou Su, Alfredo Nunez, Ali Jamshidi, Simone Baldi, Zili Li, Rolf Dollevoet and Bart De Schutter
	3	Designing bus transit services for routine crowd situations at large event venues	Jiali Du, Shih-Fen Cheng and Hoong Chuin Lau
	4	Rescheduling railway traffic taking into account minimization of passengers' discomfort	Francesco Corman, Dario Pacciarelli, Andrea D'Ariano and Marcella Samà
7b **Water 2** chair:Brouer	1	A hybrid reactive tabu search for liner shipping fleet repositioning	Mark Becker and Kevin Tierney
	2	Risk analysis of the cargo-ship transportation based on the real-time observation	Kiyotaka Ide, Loganathan Ponnambalam, Akira Namatame, Fu Xiuju and Rick Siow Mong Goh
	3	A branch-and-price method for a ship routing and scheduling problem with stowage constraints	Magnus Stålhane
	4	A matheuristic for the liner shipping network design problem with transit time restrictions	Christian Vad Karsten, Berit Dangaard Brouer, Guy Desaulniers and David Pisinger

Friday, September 25, 2015

session	slot	title	authors
8a **VRP 3** chair: Kopfer	1	The round-trip ridesharing problem with relay stations	Kamel Aissat and Ammar Oulamara
	2	A hierarchical model for cash transfer system design problem	Engin Topaloglu, Abdullah Dasci and Mehmet Hasan Eken
	3	An approximate dynamic programming approach to urban freight distribution with batch arrivals	Wouter van Heeswijk, Martijn Mes and Marco Schutten
	4	Emission vehicle routing problem with split delivery and a heterogeneous vehicle fleet	Benedikt Vornhusen and Herbert Kopfer
9a **Intermodal 2** chair: Voss	1	Synchromodal container transportation: an overview of current topics and research opportunities	Bart van Riessen, Rudy Negenborn and Rommert Dekker
	2	Cloud-based intelligent transportation system using model predictive control	Leonard Heilig, Rudy Negenborn and Stefan Voss

session	slot	paper	authors
8b **Water 3** chair: Bittner	1	Characterization of the Portuguese SSS into the Europe: a contribution	Teresa Pereira, José Telhada, José Rocha and Sameiro Carvalho
	2	Trajectory tracking control for underactuated surface vessels based on nonlinear model predictive control	Chenguang Liu, Huarong Zheng, Rudy Negenborn, Xiumin Chu and Le Wang
	3	A positioning system based on monocular vision for model ship	Shuo Xie, Chenguang Liu, Xiumin Chu and Xue Ouyang
	4	Automatic track-keeping of inland vessels	Ralph Bittner
9b **Internal Coordination 4** chair: Rijal	1	An auction with a rolling horizon and virtual pricing of shipping capacity for urban consolidation centers	Chen Wang, Hoong Chuin Lau and Yun Fong Lim
	2	MILP model for integrated cross-dock scheduling and assignment	Arpan Rijal, Marco Bijvank and René de Koster

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PLENARIES PROGRAM   (version: September 14, 2015)

Wednesday, September 23, 2015

session	title	authors
1	On trends and developments in synchromodal logistics	Prof. Albert Veenstra (DINALOG)
chair: Corman		

Thursday, September 24, 2015

session	title	authors
2	On shippers' demands from supply chains	Hugo Fonseca (MAEIL)
3	On the importance of big data in logistics	Prof. Cathy Macharis (Vrije Universiteit Brussel)
chair: Lodewijks		