

# PROGRAM

*Second INFORMS Transportation Science and Logistics Society Workshop - June 16-19, 2013*

## **Maritime Transportation and Port Logistics**

### SUNDAY 16 JUNE

18:00 - 19:00 DINNER

19:00 - BONFIRE

### MONDAY 17 JUNE

08:15 - 08:30 OPENING STATEMENTS

08:30 - 10:00 SESSION 1 - PORT AND TERMINAL MANAGEMENT I

*A two-stage stochastic programming model for strategic design of container yard layout under uncertainty of container throughput.*

**Yueyue Fan**, Yong Zhou

*Berth and Quay Crane Allocation Problems: Dynamic Modeling and Nested Tabu Search.*

Xiaole Han and **Alan Erera**

*Pro-active and reactive methods to solve the berth allocation problem for stochastic arrival and handling times.*

**Nitish Umang** and Michel Bierlaire

*Yard Storage Allocation with Multi-cluster Stacking for Export Containers.*

Ming-Kun Li, Chung-Lun Li, and **Tsz Leung Yip**

10:00 - 10:30 BREAK

10:30 - 12:00 SESSION 2 - LINER SHIPPING I

*An adaptive large neighborhood search heuristic for roll-on roll-off ship routing and scheduling*

**Rikard Bakkehaug**, Jørgen G. Rakke, Kjetil Fagerholt, and Gilbert Laporte

*Synergetic Service Network Design for Global Liner Shipping Carriers.*

**Tsung-Sheng Chang**, M. Hakan Akyüz, and Chung-Yee Lee

*Fleet size and mix in liner shipping.*

**Trond Johnsen**

*Designing liner shipping networks.*

**Judith Mulder** and Rommert Dekker

12:00 - 13:00 LUNCH

13:00 - 14:30 SESSION 3 - INVENTORY ROUTING, NETWORK DESIGN, CONTAINER REPOSITIONING

*Coordination Mechanisms for Empty Container Repositioning*

Xiaochen Gao, **Chung-Yee Lee**, and Ho Yin Mak

*Quickly Finding Good Solutions to Long-Horizon Maritime Inventory Routing Problems*

**Dimitri Papageorgiou**, George Nemhauser, and Joel Sokol

*Joint Design and Pricing on Port-Hinterland Network Design: Modeling the Extended Gate Concept.*

**Panagiotis Ypsilantis**, and Rob A. Zuidwijk

*Adaptable Solutions to Maritime Inventory Routing Problems with Delivery Time Windows.*

**Chengliang Zhang**, George Nemhauser, Joel Sokol, Myun-Seok Cheon, and Ahmet Keha

14:30 - 15:00 BREAK

15:00 - 16:30 SESSION 4 - INTERMODAL LOGISTICS

*The impact of bimodal and lognormal distributions in ocean transportation leadtime on logistics costs:*

*An Empirical & Theoretical Analysis.*

**Lita Das**, Basak Kalkanci, and Chris Caplice

*Collaborative Logistics in Shipping.*

**Oli B.G. Madsen**

*Inventory Management in Global Supply Chains Using Simulation and Transaction Data.*

John P. Saldanha, Peter F. Swan, and **Arnold Maltz**

*Modeling and solving inter-terminal transportation*

Kevin Thierney, **Stefan Voß**, and Robert Stahlbock

18:00 - 19:00 DINNER

## TUESDAY 18 JUNE

### 08:30 - 10:00 SESSION 5 - PORT AND TERMINAL MANAGEMENT II

*Real-Time Container Storage Location Assignment at a Seaport Container Transshipment Terminal:  
Dispersion Levels and Math Programming Strategies*

**Matthew E. H. Petering**, Katta G. Murty, Yong Wu, Wenkai Li, Mark Goh, and Robert de Souza

*New Lower Bound and Exact Method for the Continuous Berth Allocation Problem.*

**Zhou Xu** and Chung-Yee Lee

*Ad-hoc Port Assignment Due to A Port Outage.*

**Hyun Kim** and Megan S. Ryerson

*Scheduling double girder bridge crane with double cycling in rail based transfer automated container terminals.*

**Dandan Wang**, Anne Goodchild, and Xiaoping Li

### 10:00 - 10:30 BREAK

### 10:30 - 12:00 SESSION 6 - LINER SHIPPING II

*Fleet deployment with speed optimization and demand considerations.*

**Henrik Andersson**, Kjetil Fagerholt, and Kirsti Hobbesland

*Joint Planning of Fleet Deployment, Speed Optimization and Cargo Allocation for Liner Shipping.*

Kevin Li, Hong Ma, **Jun Xia**, and Zhou Xu

*Designing robust liner shipping schedules: Optimizing recovery actions and buffer times.*

Judith Mulder and **Rommert Dekker**

### 12:00 - 13:00 LUNCH

### 13:00 - 14:30 SESSION 7 - LNG, INLAND NAVIGATION AND STOWAGE PLANNING MODELS

*Improved Large Neighborhood Search for LNG Inventory Routing*

Yufen Shao, **Kevin C. Furman**, Vikas Goel

*A Cargo Prioritization Model for Inland Waterway Disruptions*

**Heather Nachtmann**, Jingjing Tong, and Justin Chimka

*Container Vessel Stowage Planning with Ballast Tanks.*

Alberto Ortegon Delgado, **Dario Pacino**, and Rune Moller Jensen

### 14:30 - 15:00 BREAK

### 18:00 - 19:00 DINNER

## WEDNESDAY 19 JUNE

### 08:30 - 10:00 SESSION 8 - LINER SHIPPING III

*Adapting a fleet of ships to an uncertain market development.*

**Giovanni Pantuso**, Kjetil Fagerholt, and Stein W. Wallace

*An Integrated Framework for Risk Assessment in Maritime Transportation*

**Ram Gopalan**

*Routing and scheduling for deployment of vessels for one of the world's leading RoRo carriers*

**Jørgen G. Rakke** and Guy Desaulniers

*Decision support for flexible liner shipping.*

**Johan Oppen** and Ola Bø

### 09:40 - 10:30 BREAK

### 10:30 - 12:00 SESSION 9 - GREEN MARITIME LOGISTICS

*Assessment of profit, cost and emissions by varying power as a function of sea conditions, freight market and vessel designs.*

**Haakon Lindstad**

*The Greening of the Maritime Supply Chain: in Search of Win-Win Solutions.*

**Harilaos N. Psaraftis**

### 11:15 - 11:45 CLOSING STATEMENTS

### 12:00 - 13:00 LUNCH