Wednesday 27 August, 2014

08.00-09.00 : Registration desk ground floor : Registration
09.00-09.10 : Forum : Welcome and opening conference
09.15-10.00 : Forum : Plenary 1
10.00-10.45 : Forum : Plenary 2

10.45-11.15 : Restaurant : Coffee/tea break

11.15-12.45 : Forum : 1.1 - Session 1-Terminal operations 1, Chair : F.J. Srour

PLANNING OF CONTAINER TRANSFERS IN A MULTIMODAL PLATFORM
X. Schepler, S. Balev, S. Michel, E. Sanlaville
Université du Havre, LE HAVRE, France

CONTINUOUS BERTH ALLOCATION PROBLEM CONSIDERING MULTIPLE QUAYS: MODELS AND ALGORITHMS
J.F. Correcher, R. Alvarez-Valdes, J.M. Tamarit
University of Valencia, BURJASSOT, Spain

MODELING THE IMPACT OF MARITIME TERMINAL SHIFT LENGTHS ON PRODUCTIVITY
F.J. Srour, N. El Baba
Lebanese American University, BEIRUT, Lebanon

11.15-12.45 : Santander : 1.2 - Session 2-Inter terminal transport, Chair R.R. Negenborn

FAIR JOB ALLOCATION IN INTER TERMINAL TRANSPORT
Q.C. Ye, Y. Zhang, R. Dekker
Erasmus University Rotterdam, ROTTERDAM, Nederland

A STOCHASTIC MODEL FOR INTER-TERMINAL CONTAINER TRANSPORTATION
N. Mishra1, D. Roy2, J. K. Van Ommeren3
1Rotterdam School of Management, ROTTERDAM, Nederland

A FASTER A* ALGORITHM FOR INTRA-BAY CONTAINER PRE-MARSHALLING PROBLEM
B.H. Ha
Pusan National University, BUSAN, South-Korea

11.15-12.45 : Shanghai : 1.3 - Session 3-Green operations 1, Chair S.H. Ng

STUDY OF SHIP EXHAUST EMISSION ESTIMATION
B. Dragovic1, M. Skuric1, A. Skraba2, D. Kofjac2
1Maritime Faculty, University of Montenegro, KOTOR, Yugoslavia

CO2-METHOD KIT - DETERMINATION OF GHG-EMISSIONS IN LOGISTICS COMPANIES WITH A SPECIFIC METHOD KIT
Z. Miodrag, U. Clausen
Institut für Transportlogistik, DORTMUND, Germany

UNCERTAINTY QUANTIFICATION OF CO2 REDUCTION POTENTIALS FOR MARITIME SHIPPING
S.H. Ng, J. Yuan
National University of Singapore, SINGAPORE, Singapore

12.45-13.45 : Restaurant : Lunch
SIMULTANEOUS DERIVATION OF CONTAINER STACKING STRATEGY AND CRANE DISPATCHING STRATEGY FOR AN AUTOMATED CONTAINER YARD
T. Kim, A. Bae, R. Ryu
Pusan National University, BUSAN, South-Korea

EFFICIENT STACKING ALGORITHM FOR REDUCING ENERGY CONSUMPTION AND UNPRODUCTIVE MOVEMENTS IN SEMI-AUTOMATED CONTAINER TERMINALS
E. Martin Alcalde¹, P. Teran², P. Morales-Fusco¹, S.M. Sauri¹
¹CENIT, BARCELONA, Spain

EFFECT OF QUAY AND STACK CRANE SERVICE TIME VARIABILITY ON VESSEL SOJOURN TIMES
M.B.M. de Koster¹, D. Roy², V. Dhingra²
¹Erasmus University Rotterdam, ROTTERDAM, Nederland

THE ONE-DIMENSIONAL DYNAMIC DISPATCH WAVES PROBLEM
M. Klapp Belmar, A. Toriello, A. Erera
Georgia Tech, ATLANTA, United States of America

REAL-TIME ACCOMMODATION OF DISRUPTIONS AT INTERMODAL CONTAINER TERMINALS BY RESCHEDULING CONNECTIONS
J. Nabais¹, R.R. Negenborn², R. Carmona Benítez³, M.A. Botto⁴
¹IDMEC, SETÚBAL, Portugal

AN INTEGRATED CONTAINER SCHEDULING APPROACH FOR MULTIMODAL CONTAINER TERMINALS
E. Kozan, G. Dik
Queensland University of Technology, BRISBANE, Australia

COMPETITION BETWEEN CONTAINER PORTS IN THE NORTH ADRIATIC
E. Twrdy, M. Batista
University of Ljubljana, PORTOROZ, Slovenia

AN EXPLORATION OF THE INLAND TERMINAL MARKETS IN EUROPE
H. Saeedi, B. Wiegmans, R. Zuidwijk
TUDelft, DELFT, Nederland

COOPERATION VS. NON-COOPERATION BETWEEN PORTS AND SHIPPING COMPANIES: A GAME THEORY APPROACH
N. Liu, X. Xiao
Zhejiang University, HANGZHOU, China

COLLABORATIVE TRUCK SCHEDULING AND TRUCK ARRIVAL APPOINTMENT BY TRUCKING COMPANIES AND A CONTAINER TERMINAL
T.M.H. Phan, K.H. Kim
Pusan National University, BUSAN, South-Korea

REHANDLING PROBLEM OF PICKUP CONTAINERS UNDER TRUCK APPOINTMENT SYSTEM
D. Ku
University of Auckland, AUCKLAND, New Zealand

OPTIMIZATION OF EXTERNAL TRUCK APPOINTMENT QUOTA WITH DEPLOYMENT OF YARD EQUIPMENT AND GATE LANES
N. Li¹, X. Huang²
¹Dalian Maritime University, DALIAN, China
AN APPLICATION OF MOLDABLE TASK SCHEDULING IN MARITIME TERMINALS
O. Unsal\textsuperscript{1}, C. Oguz\textsuperscript{2}
\textsuperscript{1}Koc University, ISTANBUL, Turkey

DEVELOPMENT OF A TERMINAL OPERABILITY FORECASTING SYSTEM: ANALYSIS OF THE EFFECTS THAT WIND GENERATES OVER QUAY CRANES PERFORMANCE
R. Gomez\textsuperscript{1}, R. Molina\textsuperscript{1}, O. Pernia\textsuperscript{2}, A. Camarero\textsuperscript{3}, F. De los Santos\textsuperscript{4}
\textsuperscript{1}Harbor Research Laboratory, MADRID, Spain

A HOLISTIC OPTIMIZATION METHOD FOR PLANNING AND CONTROL OPERATIONS AT FULL AUTOMATED CONTAINER TERMINALS
O. Pernia Fernandez, A. Torson, J. Scattergood, M. Ciarlegio
Navis LLC, OAKLAND, United States of America

THE VALUE OF FLEXIBLE ORDERS FOR A SYNCHROMODAL TRANSPORTATION PLAN
B. van Riessen, R.R. Negenborn\textsuperscript{2}, R. Dekker\textsuperscript{3}
Erasmus University Rotterdam, ROTTERDAM, Nederland

EQUILIBRIUM MODELS IN MULTI-MODAL CONTAINER TRANSPORT SYSTEMS
F. Corman\textsuperscript{1}, F. Viti\textsuperscript{2}, R.R. Negenborn\textsuperscript{1}
\textsuperscript{1}Delft University of Technology, DELFT, Nederland

FLOW CONSOLIDATION IN HINTERLAND INTERMODAL CONTAINER TRANSPORT - AN ANALYTICAL STUDY
B. Behdani, R. Zuidwijk, W.U. Aiyu
TU Delft, DELFT, Nederland

IMPACT OF TRANSPORT MODAL SPLIT POLICIES ON SEAPORT PERFORMANCE
J. Nabais\textsuperscript{1}, R.R. Negenborn\textsuperscript{2}, R. Carmona Benitez\textsuperscript{3}, M.A. Botto\textsuperscript{4}
\textsuperscript{1}IDMEC, SETUBAL, Portugal

TWO PROBLEMS IN REAL-TIME OPERATIONS MANAGEMENT AT A SEAPORT CONTAINER TRANSSHIPMENT TERMINAL
E.H. Petering
University of Wisconsin--Milwaukee, MILWAUKEE, WISCONSIN, United States of America

YARD ASSIGNMENT PROBLEM IN BULK PORT TERMINALS
I. Koyuncu, C. Oguz
Koc University, ISTANBUL, Turkey

IMPACT OF FORECAST ERRORS ON TRANSPORTATION COSTS IN SEA FREIGHT PROCUREMENT - A SIMULATION-BASED APPROACH
R. Elbert, D. Reinhardt
TU Darmstadt, DARMSTADT, Germany

OFFSHORE WIND TURBINE INSTALLATION UNDER UNCERTAINTY
E. Ursavas, J. Tan
University of Groningen, GRONINGEN, Nederland

15.45-17.30: Forum: 3.1 - Session 9-Terminal operations 3, Chair O. Pernia Fernandez

18.00-19.30: Town Hall: Welcome reception
Thursday 28 August, 2014

08.00-08.30: *Registration desk 2nd floor*: Registration

**08.30-10.15**: *Forum: 4.1 - Session 13-Terminal operations 4, Chair H. Schuett*

**EVALUATION OF SPACE PLANNING STRATEGIES AND LAGGED RESERVATION IN CONTAINER TERMINALS**
P. Terán Cobo, S. Saurí Marchán
*SENER Ingeniería y Sistemas, CERDANYOLA DEL VALLÉS, Spain*

**INTELLIGENT CANCELS OF HORIZONTAL TRANSPORT ORDERS IN FULLY AUTOMATED CONTAINER TERMINAL OPERATIONS**
A. Torson
*Navis, LAFAYETTE, United States of America*

**SIMULATION OF POWER DEMAND IN A MARITIME CONTAINER TERMINAL USING AN EVENT-DRIVEN DATA ACQUISITION MODULE**
S. Runge, N. Ihle, H.J. Appelrath, L.M. Kolbe
*University of Oldenburg, OLDENBURG, Germany*

**SHIFT PREVIEW - A SIMULATION BASED SUPPORT OF THE SHORT-TERM PLANNING OF CONTAINER TERMINAL OPERATION**
H. Schuett
*ISL Applications GmbH, BREMERHAVEN, Germany*

**08.30-10.15**: *Santander: 4.2 - Session 14-Supply chains, Chair B. Huang*

**THE EVOLUTION OF SMART-WEB SUPPLY CHAIN USING INTELLIGENT GOVERNANCE SYSTEM**
M.I. Santoso, B. Noche
*Universität Duisburg-Essen, DUISBURG, Germany*

**CONSTRUCTING THE SAFETY MANAGEMENT SYSTEMS FOR FOOD COLD CHAIN LOGISTICS BASED ON ISO 28000 STANDARD**
H. Piao, X. Huang, F. Li
*Dalian Maritime University, DALIAN, China*

**PRICING OF REMANUFACTURED PRODUCT WITH REPLACEMENT PURCHASE**
B. Huang, L. Jing, X.M. Yuan
*National University of Singapore, SINGAPORE, Singapore*

**08.30-10.15**: *Shanghai: 4.3 - Session 15-Transport over water, Chair R.R. Negenborn*

**FEASIBILITY OF SHUTTLE SERVICES IN LINER SHIPPING NETWORKS**
J. Mulder, R. Dekker
*Erasmus University Rotterdam, ROTTERDAM, Nederland*

**GREEN WATERBORNE CONTAINER LOGISTICS WITHIN PORTS**
U. Malchow
*Kochschule Bremen - University of Applied Sciences, BREMEN, Germany*

**SHIP ROUTING PROBLEM IN A STEEL MANUFACTURING COMPANY**
J.S. Lee, B.I. Kim
*POSTECH, POHANG, South-Korea*

**PORT OPERATION AND MANAGEMENT - OVERVIEW OF THE KEY RESEARCH PROJECT OF NSFC**
F. Wang
*Sun Yat-sen Business School, GUANGZHOU, China*
NEW SOLUTION METHODS FOR THE CONTINUOUS BERTH ALLOCATION PROBLEM
Z. Xu1, C-Y. Lee2
1Hong Kong Polytechnic University, HONG KONG, Hongkong - China

COST, CARBON EMISSIONS AND MODAL SHIFT IN INTERMODAL NETWORK DESIGN DECISIONS
Y. Bouchery. J C Fransoo
Eindhoven University of Technology, EINDHOVEN, Nederland

A NOVEL CAPACITY ALLOCATION CONTRACT IN THE OCEAN FREIGHT INDUSTRY
HKUST, HONG KONG, Hongkong - China

VESSEL AND CONTAINER SCHEDULING FOR FEEDER LINES
X. Qi
HKUST, CLEARWATER BAY, Hongkong - China

A SIMULATION BASED APPROACH TO FIND AN OPTIMAL FITTING OF E-MOBILITY EQUIPMENT IN A MARITIME CONTAINER TERMINAL
N. Grundmeier, A. Hahn
Universität Oldenburg, OLDENBURG, Germany

A NEXT GENERATION CONTAINER PORT
N Zaerpour1, M.B.M. de Koster2, B. Kuipers3, T. Been4, J. Hernandez Mayor4, H. Casanova Garcia4
1Rotterdam School of Management, Erasmus University, ROTTERDAM, Nederland

QUEUING NETWORK MODELS IN PORT LOGISTICS
P.L. Legato, R.M. Mazza
University of Calabria, RENDE (CS), Italy

INTEGRATED SEAPORT TERMINAL PLANNING - CHALLENGES, POTENTIALS AND RESEARCH NEEDS TO IMPROVE PLANNING PROCESSES BY COMBINING VISUALIZATION, LOGISTICS AND SHIP HANDLING SIMULATION TECHNIQUES
C. Jahn
Hamburg University of Technology, HAMBURG, Germany

SYSTEM SUPPORTED PROCESS MODELING FOR WAREHOUSING ACTIVITIES
K. Winter1, C. Geiger1, U. Clausen1, Z. Miodrag2
1TU Dortmund University, DORTMUND, Germany

ENERGY CONSUMPTION ANALYSIS FOR EVALUATING ENERGY EFFICIENCY OF WAREHOUSE OPERATIONS IN KOREA
C. Kim1, D.K. Kim1, Y.J. Kim2, S.Y. Kho1, B. Son2, S.P. Kang1
1Seoul National University, SEOUL, South-Korea

CURRENT ISSUES ON WAREHOUSE ENERGY MANAGEMENT IN KOREA
Y.J. Kim1, S. Lee2, J.U. Won2, K.T. Kim2
1Korea Railroad Research Institute, UIWANG, South-Korea

WAREHOUSE OPERATION IMPROVEMENT EVALUATION THROUGH EFFECTIVE INSTALLATION OF FIRE PARTITION IN KOREA
C. Kim, D.S. Kim, D.K. Kim
Seoul National University, SEOUL, South-Korea
COOPERATIVE LINER SHIPPING NETWORK DESIGN BY MEANS OF A COMBINATORIAL AUCTION
R. Haass, T. Buer
University of Bremen, BREMEN, Germany

MULTI-PORT CONTAINERSHIP STOWAGE PLANNING CONSIDERING TERMINAL CHARACTERISTICS
T. Muona¹, E. Ursavas², I.F.A. Vis²
¹Aalto university, HELSINKI, Finland

FACILITY LOCATION AND TRANSPORTATION IN NAFTA AND THE EU
J.H. Bookbinder, T.A. Bayley
University of Waterloo, WATERLOO, Canada

PANAMA CANAL VS. NICARAGUA CANAL - IMPACTS ON INTERNATIONAL AND REGIONAL MARITIME TRANSPORT
J.R. Daduna
HWR Berlin, BERLIN, Germany

12.30-13.30 : Restaurant : Lunch

13.30-14.15 : Forum : Plenary 3

14.45-15.00 : Forum : Plenary 4

15.00-15.30 : Restaurant : Coffee/tea break

15.30-17.15 : Santander : 6.2 - Session 23-Shipping and Maritime maintenance and services, Chair D. Song

MAINTENANCE AND SERVICE LOGISTICS PLANNING IN THE MARITIME SECTOR: A LITERATURE REVIEW
A.S. Eruguz, T. Tan, G.J. van Houtum
Eindhoven University of Technology, EINDHOVEN, Nederland

MARITIME SUPPLY CHAIN CHOICE MODELLING IN MERCHANT HAULAGE
V. Flitsch, C. Jahn
Hamburg University of Technology, HAMBURG, Germany

OPTIMIZATION OF DISASTER RELIEF OPERATIONS BY USING ON- AND OFF-SHORE PREPOSITIONING OF DISASTER RELIEF ITEMS
M. Sharifyazdi, K.A. Navangul, M. Jahre
Bi Norwegian Business School, OSLO, Norway

OPTIMIZING SERVICE RELIABILITY AND FUEL CONSUMPTION IN LINER SHIPPING WITH UNCERTAIN PORT TIMES
D. Song¹, X. Qi², C. Li²
¹University of Liverpool, LIVERPOOL, United Kingdom
²University of Bremen, BREMEN, Germany
Friday 29 August, 2014

08.15-08.45: Registration desk 2nd floor: Registration

08.45-10.30: Forum: Session 25-Terminal storage and transshipment, Chair E. Nishimura

YARD ARRANGEMENT PROBLEM WITH CONSIDERATION OF BERTH SPACE UTILIZATION EFFICIENCY
L.J. Wang, E. Nishimura
Kobe University, KOBE CITY, Japan

SYSTEM EVALUATION AND STORAGE ALLOCATION PROBLEM IN GRID-ACT BASED TRANSSHIPMENT HUB
C.H. Zhou
National University of Singapore, SINGAPORE, Singapore

MULTIPLE-LOAD RETRIEVAL TIME MODELS IN PUZZLE-BASED STORAGE SYSTEMS
M. Mirzaei, M.B.M. de Koster
Erasmus University, ROTTERDAM, Nederland

MULTI-OBJECTIVE CONTAINER STORAGE ARRANGEMENT AT THE CONTAINER TERMINAL WITH POLYGON CONFIGURATION
E. Nishimura
Kobe University, KOBE, Japan

08.45-10.30: Santander: Session 26-Warehouse order picking, Chair S. Hong

ALIGNING ORDER PICKING METHODS WITH INCENTIVE SYSTEMS AND PICKERS FOR PERFORMANCE
J. de Vries, M.B.M. de Koster, D.A. Stam
RSM Erasmus University, ROTTERDAM, Nederland

BLOCKS RELOCATION PROBLEM WITH MULTI-ITEM MOVES AND ITS TREE SEARCH PROCEDURE
R. Zhang, S. Liu
Northeastern University, SHENYANG, China

COMPARISON ROUTING STRATEGIES FOR A MULTIPLE-PICKER ORDER PICKING SYSTEM WITH CONGESTION CONSIDERATION BY THROUGHPUT
J. Hwang¹, D.K. Kim¹, T.H. Yoon², S.Y. Kho¹
¹Seoul National University, SEOUL, South-Korea

ORDER BATCHING IN A BUCKET BRIGADE ORDER PICKING SYSTEM WITH CONSIDERATION OF PICKER BLOCKING
S. Hong
Pusan National University, PUSAN, South-Korea

08.45-10.30: Shanghai: Session 27-Transport over rail or road, Chair L. Chen

CONTAINER LIFTING SYSTEM FOR EFFECTIVE OPERATION OF TRAIN FERRY SYSTEM BETWEEN KOREA AND CHINA
J.G. Kim, J.Y. Lim, S.I. Seo, D.H. Choi
Korea Railroad Research Institute, UIWANG, South-Korea

AN INNOVATIVE RAIL-CANAL SYSTEM FOR EFFECTIVE SHIPPING LOGISTICS
Korea Railroad Research Institute, UIWANG, South-Korea

NETWORK DESIGN IN ROAD MAINTENANCE WITH FUZZY SERVICE TIME
L. Chen¹, B. Chen¹, A. Langevin²
¹Shanghai Jiao Tong University, SHANGHAI, China

10.30-11.00: Restaurant: Coffee/tea break

11.00-12.00: Forum: Panel discussion

12.00-12.30: Forum: Closing and Award ceremony

12.30-13.30: Restaurant: Lunch