DETAILED SCIENTIFIC PROGRAM LOGMS 2014

Room numbers :

Forum : M3-15
Santander : M2-11
Shanghai : M2-12
Rochester : M2-10
Restaurant : M3-09

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

<mark>10.45-11.15 : *Restaurant* : Coffee/tea break</mark>

<mark>11.15-12.45 : *Forum* : **1.1 - Session 1-Terminal operations 1, Chair : F.J. Srour**</mark>

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

<mark>11.15-12.45 : *Santander* **: 1.2 - Session 2-Inter terminal transport, Chair R.R. Negenborn**</mark>

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. Mishra[1], D. Roy[2], J. K. Van Ommeren[3]
[1]Rotterdam 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

<mark>11.15-12.45 : *Shanghai* **: 1.3 - Session 3-Green operations 1, Chair S.H. Ng**</mark>

STUDY OF SHIP EXHAUST EMISSION ESTIMATION
B. Dragovic[1], M. Skuric[1], A. Skraba[2], D. Kofjac[2]
[1]Maritime 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

<mark>12.45-13.45 : *Restaurant* : Lunch</mark>

13.45-15.15 : *Forum* : 2.1 - Session 5-Terminal operations 2, Chair M.B.M. de Koster

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 Alcalde[1], P. Teran[2], P. Morales-Fusco[1], S.M. Sauri[1]
[1]CENIT, BARCELONA, Spain

EFFECT OF QUAY AND STACK CRANE SERVICE TIME VARIABILITY ON VESSEL SOJOURN TIMES
M.B.M. de Koster[1], D. Roy[2], V. Dhingra[2]
[1]Erasmus University Rotterdam, ROTTERDAM, Nederland

13.45-15.15 : *Santander* : 2.2 - Session 6-Multimodal transport 1, Chair E. Kozan

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. Nabais[1], R.R. Negenborn[2], R. Carmona Benítez[3], M.A. Botto[4]
[1]IDMEC, SETÚBAL, Portugal

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

13.45-15.15 : *Shanghai* : 2.3 - Session 7- Cooperation and competition 1, Chair N. Liu

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

13.45-15.15 : *Rochester* : 2.4 - Session 8-Transport over road, Chair N. Li

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. Li[1], X. Huang[2]
[1]Dalian Maritime University, DALIAN, China

15.15-15.45 : *Restaurant* : Coffee/tea break

AN APPLICATION OF MOLDABLE TASK SCHEDULING IN MARITIME TERMINALS
O. Unsal[1], C. Oguz[2]
[2]Koc University, ISTANBUL, Turkey

DEVELOPMENT OF A TERMINAL OPERABILITY FORECASTING SYSTEM: ANALYSIS OF THE EFFECTS THAT WIND GENERATES OVER QUAY CRANES PERFORMANCE
R. Gomez[1], R. Molina[1], O. Pernía[2], A. Camarero[3], F. De los Santos[4]
[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[1], R.R. Negenborn[2], R. Dekker[1]
Erasmus University Rotterdam, ROTTERDAM, Nederland

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

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

IMPACT OF TRANSPORT MODAL SPLIT POLICIES ON SEAPORT PERFORMANCE
J. Nabais[1], R.R. Negenborn[2], R. Carmona Benítez[3], M.A. Botto[4]
[1]IDMEC, SETÚBAL, 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

18.00-19.30: *Town Hall*: Welcome reception

Thursday 28 August, 2014

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

EVALUATION OF SPACE PLANNING STRATEGIES AND LAGGED RESERVATION IN CONTAINER TERMINALS
P. Terán Cobo[1], S. Saurí Marchán[2]
[1]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[1], N. Ihle[1], A. Hahn[1], H.J. Appelrath[1], J. Schmidt[2], L.M. Kolbe[2]
[1]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

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[1], X. Huang[2], F. Li[2]
[1]Dalian Maritime University, DALIAN, China

PRICING OF REMANUFACTURED PRODUCT WITH REPLACEMENT PURCHASE
B. Huang[1], L. Jing[1], X.M. Yuan[2]
[1]National University of Singapore, SINGAPORE, Singapore

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
Hochschule 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. Xu[1], C-Y Lee[2]
[1]Hong 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
Q. Liu, C.Y. Lee, S. Zheng
HKUST, HONG KONG, Hongkong - China

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

10.15-10.45 : *Restaurant* : Coffee/tea break

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 Zaerpour[1], M.B.M. de Koster[2], B. Kuipers[3], T. Been[4], J. Hernandez Mayor[4], H. Casanova Garcia[4]
[1]Rotterdam 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. Winter[1], C. Geiger[1], U. Clausen[1], Z. Miodrag[2]
[1]TU Dortmund University, DORTMUND, Germany

ENERGY CONSUMPTION ANALYSIS FOR EVALUATING ENERGY EFFICIENCY OF WAREHOUSE OPERATIONS IN KOREA
C. Kim[1], D.K. Kim[1], Y.J. Kim[2], S.Y. Kho[1], B. Son[3], S.P. Kang[1]
[1]Seoul National University, SEOUL, South-Korea

CURRENT ISSUES ON WAREHOUSE ENERGY MANAGEMENT IN KOREA
YJ. Kim[1], S. Lee[2], J.U. Won[2], K.T. Kim[2]
[1]Korea 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. Muona[1], E. Ursavas[2], I.F.A. Vis[2]
[1]Aalto 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

ROBUST VEHICLE DISPATCH RULES AND TERMINAL DESIGN FOR AUTOMATED CONTAINER TERMINALS
J.P. van der Gaast, M.B.M. de Koster
Erasmus University, ROTTERDAM, Nederland

DESIGN SUPPORT SIMULATION MODEL FOR AN OVERHEAD-SHUTTLE CONTAINER TERMINAL
S.H. Won[1], S.W. Cho[1], S.H. Choi[2], E.K. Lee[2], H.M. Jeon[2], M.H. Kang[2]
[1]Kunsan National University, GUNSAN, JEONBUK, South-Korea

AN EFFICIENT ANALYTICAL APPROACH FOR ESTIMATING THROUGHPUT IN SEA CONTAINER TERMINALS
K.S. Duisters[1], D. Roy[2], I.J.B.F. Adan[1]
[1]Eindhoven University of Technology, EINDHOVEN, Nederland

NEAR-TO-LIFE-TRAINING FOR CONTAINER TERMINAL PLANNERS: BRIDGING THE GAP BETWEEN TRAINING AND LIVE OPERATION
C.A. Boer[1], Y. Saanen[1], M. Bruggeling[1], N. Koumaniotis[2]
[1]TBA BV, DELFT, Nederland

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. Song[1], X. Qi[2], C. Li[2]
[1]University of Liverpool, LIVERPOOL, United Kingdom

19.00-22.00: *Spido*: Dinner Cruise

Friday 29 August, 2014

08.15-08.45: *Registration desk 2nd floor* : Registration

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

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. Hwang[1], D.K. Kim[1], T.H. Yoon[2], S.Y. Kho[1]
[1]Seoul 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

CONTAINTER 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
S.I. Seo, J.Y. Lim, J.G. Kim, D.H. Choi, D.H. Kang
Korea Railroad Research Institute, UIWANG, South-Korea

NETWORK DESIGN IN ROAD MAINTENANCE WITH FUZZY SERVICE TIME
L. Chen[1], B. Chen[1], A. Langevin[2]
[1]Shanghai 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