LOGMS 2010

International Conference on Logistics and Maritime Systems
September 15th-17th, 2010, Busan, KOREA

Hosted by

Yanghyun Foundation, Korea Institute of Logistics Innovation and Networking, Korea

Co-organized by

Korean Institute of Industrial Engineers, Korea

Sponsored by

Pusan National University
National Research Foundation of Korea
German Research Foundation (DFG)
Korean Society for Supply Chain Management, Korea
Busan Convention & Visitors Bureau, Korea
CyberLogitec Co. Ltd., Korea
Total Soft Bank Ltd., Korea

Welcome Address 1



Sung-Jin Kim

Dear Participants,

I am pleased to welcome you to the 2010 International Conference on Logistics and Maritime Systems (LOGMS), held in one of the most beautiful harbor cities in the world.

Globalization of the world economy has remarkably boosted trade volume, resulting in a paradigm shift in logistics and maritime systems. As such, the logistics industry is being recognized as a new growth engine at the forefront of value added and job creation. International logistics and maritime systems have come to play an important role in both industrialized and developing economies.

Meanwhile, as the weight of logistics cost in the total manufacturing cost has been steadily increasing, reducing the logistics portion of the cost has become a key challenge for most global companies.

Against this backdrop, I find it particularly meaningful that experts from the academia, business community, government, and relevant areas have gathered here from 18 countries to build networks and exchange the latest information, technology, and expert knowledge.

I wish this conference becomes a platform for deeper friendships and ever greater contributions to the international logistics industry.

I would like to appreciate all the members of the organizing committee and all the sponsors for their supports. I would like to say 'thank you' to all participants and wish all of you have a fruitful, informative and enjoyable time at this conference.

Thank you.

Sung-Jin Kim

Honorary Chair of LOGMS 2010 and President of Hankyong National University

Welcome Address 2



Eun-Young Choi

Dear Participants,

It gives me a great pleasure to welcome you to the 2010 International Conference on Logistics and Maritime Systems (LOGMS). Moreover, it is our honor to become the first organizer of LOGMS which is a newly launching international meeting by integrating the International Conference on Intelligent Logistics Systems (IILS) and The International Symposium on Maritime Logistics and Supply Chain Management (MLOG).

As a result of rapidly growing economic activities in Northeastern Asia, this area has become to have the highest transportation volume in the world. It is meaningful to have this maritime research conference in Busan which has been playing a key role as a logistics hub in Northeastern Asia. During this conference, I hope that you have a chance to feel the strong rhythm of heartbeats of logistics activities in Busan. Especially, the industrial tour in the program will give you a good chance to contact the recent improvements of Busan Port.

I hope that this conference becomes a useful opportunity for researchers to exchange a lot of interesting and new ideas on the latest developments in the field of logistics and maritime systems. Finally, I would like to appreciate organizing members of this conference for their efforts to make this conference successful. I also wish to thank all the participants and their contribution to this conference. I look forward to your fruitful discussions during this conference and wish you pleasant stay in this beautiful city.

Eun-Young Choi

Honorary Chair of LOGMS and Chief Director of Yanghyun Foundation

Congratulatory Address



Inn Se Kim

Dear Participants,

I offer my congratulations to Yanghyun Foundation and the Institute of Logistics Innovation and Networking at Pusan National University on their successful opening of this significant international conference with researchers, companies, and institutions in the field of port, maritime transports and logistics from around ten countries including the United States and Germany.

I would like to express my hearty welcome to the scholars and experts from our nation and abroad who visited Busan to attend at this conference. Including President Sung-Jin Kim of Hankyong National University, President Eun-Young Choi of Yang Hyun

Foundation, and Professor Michael G. H. Bell from Imperial College London in the United Kingdom, Professor Herbert Kopfer from the University of Bremen in Germany, and President Jang-Rim Choi of Cyber Logitec Co., Ltd. who will deliver the keynote speeches, I would like thank all the participants who will present their excellent research works. Today, the environment of logistics industries is changing rapidly. As the results of a dramatic growth of the economy in Northeastern Asia, commercial traffic has greatly increased in the region. In addition, the operation methods in logistics industries such as applications of information and automation technologies are being diversified. These circumstances are producing lots of new tasks to be solved by researchers of logistics.

I believe that this conference will be a perfect venue where we can understand the latest information and international trend and share special knowledge in port, maritime transports and logistics. Especially, it will help our industries with the development of technology by introducing the advanced technologies from abroad. I also believe that it will contribute to organizing an international network for the system of international collaboration.

Through this conference, we can establish a concrete channel for exchanging ideas among related researchers and lead to development of logistics industries with the benchmarking of the advanced technologies from different countries. I hope that all of you maintain and develop the academic and personal relationships you created at this conference.

I want to thank Professor Kap-hwan Kim, Director of the Institute of Logistics Innovation and Networking, and everyone involved in organizing this conference. I also appreciate Cyber Logitec Co. Ltd. and Total Soft Bank Co. Ltd. for their generous support to this conference. I wish an everlasting prosperity to Yanghyun Foundation and the Institute of Logistics Innovation and Networking and wish all of you a happy and healthy life. Thank you.

Inn Se Kim

Message from General Chair



Kap Hwan Kim

I would like to offer a very warm welcome to all the participants at the 2010 International Conference on Logistics and Maritime Systems (LOGMS 2010) and I am expecting you will have a rewarding time at this conference and most enjoyable stay in Busan. I hope this conference will provide all the global family of logistics and maritime professional with a good opportunity to share and exchange new ideas and visions. An important outcome of this conference will be the sharing ideas on the future trends and visions of logistic and maritime systems. Based on the visions, we may be able to explore promising research issues for researchers. Moreover, this conference will provide a good opportunity to globalize the network of researchers in the logistics and maritime society.

Today, as the worldwide economic situation become to be more interconnected, uncertain, and dynamic, traditional approaches to the logistics and maritime management no longer suffices. Considering the increasing importance of the Northeastern Asia in the global trade, it seems to be timely to have an international meeting to discuss various technologies related to logistics and maritime systems in Busan. I hope this conference will provide a good opportunity not only to discuss your research results but also experience various efforts in Korea to improve practices of maritime and port industries.

Finally, I would like to thank all the authors and speakers from many countries, the chairs of various committees and sessions of LOGMS 2010, members of the international advisory committee. Last but not least, I would like to thank Yanghyun Foundation, Korean Institute of Industrial Engineers, Korean Society of Supply Chain Management, and sponsors for their strong supports. I wish your pleasant stay in this beautiful city.

Kap Hwan Kim

Chair of the Organizing Committee

ORGANIZER

Honorary Chairs

Sung-Jin Kim Hankyong National University, Korea

Eun-Young Choi Yanghyun Foundation, Korea

General Chair

Kap-Hwan Kim Pusan National University, Korea

International Advisory Committee

Michael G. H. Bell Imperial College London, United Kingdom

Mitsuo Gen Waseda University, Japan

Hans-Otto GüntherTechnical University of Berlin, GermanyYou Fang HuangShanghai Maritime University, ChinaKap-Hwan KimPusan National University, KoreaHerbert KopferUniversity of Bremen, Germany

Erhan Kozan Queensland University of Technology, Australia
Loon Ching Tang National University of Singapore, Singapore

Technical Program Co-Chairs

II-Kyeong Moon Pusan National University, Korea

Loon Ching Tang National University of Singapore, Singapore

Industrial Program Chair

Bonghee Hong Pusan National University, Korea

Workshop Co-Chairs

Herbert Kopfer University of Bremen, Germany
Won Young Yun Pusan National University, Korea

Publicity Co-Chairs

Kwang Ryel Ryu

Pusan National University, Korea

Pusan National University, Korea

Finance Co-Chairs

Hyerim Bae Pusan National University, Korea Kwangyeol Ryu Pusan National University, Korea

Program Committee

Ek Peng Chew National University of Singapore, Singapore

Sang Hee Choi Korea Maritime Institute, Korea
Sang-Hwa Chung Pusan National University, Korea
Yizhong Ding Shanghai Maritime University, China
Anne Goodchild University of Washington, USA

Martin Grunow Technical University of Denmark, Denmark

Hans-Dietrich Haasis University of Bremen, Germany

Petros A. Ioannou University of Southern California, USA

Young Hwan Jeon Busan Port Authority, Korea

Voratas Kachitvichyanukul Asian Institute of Technology, Thailand

Chulung Lee Korea University, Korea

Chung-Yee Lee Hong Kong University of Science & Technology, Hong Kong

Loo Hay Lee National University of Singapore, Singapore

Suk Lee Pusan National University, Korea

Tae-Eog Lee Korea Advanced Institute of Science and Technology, Korea

Young Hoon Lee Yonsei University, Korea

Yusin Lee National Cheng Kung University, Taiwan
Dikai Liu University of Technology Sydney, Australia
K. L. Mak University of Hong Kong, Hong Kong

Hokey Min

Bowling Green State University, USA

Etsuko Nishimura Kobe University, Japan Ceyda Oguz Koc University, Turkey

Matthew E. H. Petering University of Wisconsin, USA

David Pisinger Technical University of Denmark, Denmark

Bernd Scholz-Reiter
Yihong Ru

Dong Ping Song
Dong-Wook Song
Iris F.A. Vis
Seog-Soo Kim

University of Bremen, Germany
Beijing Jiaotong University, China
University of Plymouth, United Kingdom
Heriot-Watt University, United Kingdom
VU University Amsterdam, Netherlands
Pusan National University, Korea

0

 \supset

G

2

 \supset

Master Schedule of LOGMS 2010

▶ Day 1 – Sep. 15 (Wed) 2010

08:30-09:00		Regi	stration						
	Technical Session A1	Technical Session A2	Technical Session A3	Technical Session A4					
09:00-10:20	SCM 1	Inventory and Production	Seaport and Transportation 1	VRP					
	(Camellia, 5F)	(Azalea & Lilac, 5F)	(Iris, 4F)	(Grand Ballroom, 5F)					
10:20-10:30		Coffe	e Break						
		Opening Ceremon	y (Grand Ballroom, 5F)						
		Keynot	e Speech						
	Professor Michael G. H. B	ell (Imperial College London, United Ki	ngdom) / Professor Herbert Kopfer (Univers	sity of Bremen, Germany)					
10.00.10.00		President Jang-Rim Choi (CyberLogitec Co., Ltd., Korea)						
10:30-12:20		Welcom	e Address						
	President Sung-Jin Kim (Hankyong National University, Korea) / President Eun-Young Choi (Yanghyun Foundation, Korea)								
	Congratulatory Address								
	President Inn-Se Kim (Pusan National University, Korea)								
12:20-13:20		llroom C, 5F)							
	Technical Session B1	Technical Session B2	Technical Session B3	Technical Session B4					
13:20-14:40	SCM 2	Design & Operation 1	Seaport and Transportation 2	Shipping					
	(Camellia, 5F)	(Azalea & Lilac, 5F)	(Iris, 4F)						
14:40-15:00		Coffe	e Break						
	Technical Session C1	Technical Session C2	Technical Session C3	Technical Session C4					
15:00-16:20	SCM 3	Design & Operation 2	Seaport and Transportation 3	Maritime 1					
	(Camellia, 5F)	(Azalea & Lilac, 5F)	(Iris, 4F)	(Grand Ballroom, 5F)					
16:20-16:40		*****	e Break						
	Technical Session D1	Technical Session D2	Technical Session D3	Technical Session D4					
16:40-18:00	SCM 4	Design & Operation 3	Seaport and Transportation 4	Maritime 2					
	(Camellia, 5F)	(Azalea & Lilac, 5F)	(Iris, 4F)	(Grand Ballroom, 5F)					
19:00-21:00		Banquet (Gra	nd Ballroom, 5F)						

▶ Day 2 – Sep. 16 (Thu) 2010

08:30-09:00			Registration		
09:00-10:20	Technical Session E1 Simulation (Camellia, 5F)	Technical Session E2 Business Process Management for Logistics (Azalea & Lilac, 5F)	Technical Session E3 Seaport and Transportation 5 (Iris, 4F)	09:00-09:50 09:50-10:30	Industrial Session E4 Professor Sonke Hartmann (Hamburg School of Business Administration, Germany) President Jang-Rim Choi (CyberLogitec Co., Ltd.) (Grand Ballroom, 5F)
10:20-10:40		Coffee Break		10:30-10:50	Coffee Break
10:40-12:00	Technical Session F1 SCM 5 (Camellia, 5F)	Technical Session F2 IT (Azalea & Lilac, 5F)	Technical Session F3 Seaport and Transportation 6 (Iris, 4F)	10:50-11:40 11:40-12:20	Industrial Session F4 Mr. Daniel Pagac (Patrick Technology and Systems, Australia), Dr. Byung-Ho Kang (Total Soft Bank Ltd.) (Grand Ballroom, 5F)
12:00-13:00			Lunch (Ballroom C, 5F)		
13:00-14:20	Technical Session G1 SCM 6 (Camellia, 5F)	Technical Session G2 Intermodal (Azalea & Lilac, 5F)	Technical Session G3 Seaport and Transportation 7 (Iris, 4F)		
14:20-14:40			Coffee Break		
14:40-16:00	Technical Session H1 SCM 7 (Camellia, 5F)	Technical Session H2 Scheduling 1 (Azalea & Lilac, 5F)	Technical Session H3 Seaport and Transportation 8 (Iris, 4F)		Invited Speech o Gen (Fuzzy Logic Systems Institute, Japan) Professor Erhan Kozan sland University of Technology, Australia) (Ballroom C, 5F)
16:00-16:20			Coffee Break		
16:20-17:40	Technical Session I1 Empty Container (Camellia, 5F)	Technical Session I2 Scheduling 2 (Azalea & Lilac, 5F)	Technical Session I3 Seaport and Transportation 9 (Iris, 4F)	(Natio	Invited Speech Professor Loon Ching Tang anal University of Singapore, Singapore) (Ballroom C, 5F)

LOGMS 2010 Proceedings

Day 1-Sep.15(V	Ved)				
Time	Session	PID	Authors	Title	Country
	AL COM I	A1.1	Afshin Mehrsai, Michael Teucke, Bernd Scholz Reiter	Coordination of a Push-Pull Principle Logistics Network by Optimizing Material-Pull; Applying Genetic Algorithm	Germany
	A1: SCM I Chair: Milorad Vidović	A1.2	Milorad Vidović, Dražen Popović	Mip Model and Heuristics for Inventory Routing Problem in Fuel Delivery	Serbia
	Chair. Milorad Vidovic	A1.3	Dongwon Cho, Young Hae Lee	Quantifying the Bullwhip Effect in a Seasonal Supply Chain with Stochastic Lead Time	Korea
	A2: Inventory and	A2.1	Roel G. van Anholt, Iris F.A. Vis	An Integrative Online ATM Forecasting and Replenishment Model with a Target Fill Rate	Netherlands
	Production Chair: Roel G. van Anholt	A2.2	Bernd Scholz-Reiter, Jens Heger, Torsten Hildebrandt, Daniel Rippel	Towards Advanced Learning in Dispatching Rule-based Scheduling	Germany
09:00-10:20		A2.3	Jakub Piotrowski, Bernd Scholz-Reiter	Approaches for Realization of Autonomous Logistics in Practice	Germany
07.00-10.20	A3: Seaport and	A3.1	Sang-Hei Choi, Seung Hwan Won, Chulung Lee	Comparison of Alternative Ship-to-yard Vehicles with the Consideration of the Batch Process of Quay Cranes	Korea
	Transportation I	A3.2	Joerg Wiese, Leena Suhl, Natalia Kliewer	Planning Storage Yard Layouts of Container Terminals	Germany
	Chair: Won Young Yun	A3.3	Nils Kemme	Simulation Analysis of Crane Deployment Strategies for Automated Rail- Mounted-Gantry Crane Systems	Germany
	A4: VRP	A4.1	Natthapong Nanthasamroeng, Rapeepan Pitakaso	Iterated Local Search for Multi-criteria and Multi-stage Location Allocation Problem	Thailand
	Chair: Shiwoo Lee	A4.2	Won-Young Yun, Wen-Fei Wang	A Hybrid SA Algorithm for Inland Container Transportation	Korea
	5 5 50 E c	A4.3	Kyoung C. Kim, Shiwoo Lee	Hierarchical Approach to Vehicle Routing Problem for Delivery and Installation	Korea

Day 1-Sep.15(V	Ved)							
		Opening Ceremony (Grand Ballroom)						
		Michael G. H. Bell	Future for the Automation of Container Terminals	United Kingdom				
10:30-12:20	Keynote Speech Chair: Kap Hwan Kim	Herbert Kopfer	Trends in Operational Tranportation Planning for Road Carriage: Problems to be Solved	Germany				
		Jang-Rim Choi	The Development of Maritime Logistics	Korea				
	Welcome Address/ Congratulatory Address Chair: Kap Hwan Kim	President Sung-Jin Kim (Hankyong National University, Korea) President Eun-Young Choi (Yang Hyun Foundation, Korea) President Inn-Se Kim (Pusan National University, Korea)						

Time	Session	PID	Authors	Title	Country
	B1: SCM II	B1.1	Duangpun Kritchanchai, Sineenart Krichanchai	Challenges of Healthcare Supply Chain Improvement in Thailand	Thailand
	Chair: Marcel W. Ludema	B1.2	Marcel W. Ludema	Supply Chain Engineering; a System of Systems Perspective	Netherlands
		B1.3	Mithun J Sharma, Yu Song Jin	Optimizing Critical Suppliers in the Deployment of a Lean Supply Chain	India
		B2.1	Jonghoe Kim, James R. Morrison	Identification of Economically Promising Port Architectures via Enumeration and Capacity Evaluation	Korea
	B2: Design & Operation I	B2.2	Zhuo Sun, Kok Choon Tan, Loo Hay Lee, Ek Peng Chew	A Simulation Framework for Mega-sized Container Terminals	Singapore
	Chair: Loo Hay Lee	B2.3	Byung-Hyun Ha, Byung Cheon Choi	An Optimal Algorithm for Single Yard Crane Scheduling	Korea
		B2.4	Yi Ding , GuoLong Lin, Yanping Meng	An Expert System Based on Multi-Reasoning Mechanism for Port Machine Diagnosis	China
		B3.1	Young Jin Han, Quang Vinh Dang, Won Young Yun	Repositioning Empty Containers in Surplus Area	Korea
13:20-14:40	B3: Seaport and Transportation II	B3.2	Ki-Sung Hong, Chulung Lee	Optimal Pricing and Guaranteed Lead Time with Consideration of Lateness Penalties	Korea
	Chair: Chulung Lee	B3.3	Branislav Dragović, Dong-Keun Ryoo, Nam Kyu Park, Romeo Meštrović	Analytical and Simulation Approaches of Ship Traffic Modeling	Montenegro
		B3.4	Jaehun Park, Hyerim Bae, Sungmook Lim, Loohay Lee	Selection of Benchmark Targets using DEA Considering Direction and Unit Similarity	Korea
		B4.1	Shuaian Wang, Qiang Meng	Liner Shipping Fleet Deployment with Cargo Transshipment and Demand Uncertainty	Singapore
	B4: Shipping	B4.2	Hwa-Joong Kim, Kwang-Tae Kim, Dong-Sik Park, Hyo-Jeong Kim, Young-Tae Chang	A Solution Algorithm for Green Fuel Management of a Ship	Korea
	Chair: Hwa-Joong Kim	B4.3	Nenad Bjelić, Milorad Vidović, Katarina Vukadinović	Allocation of Handling Devices for Barges Unloading	Serbia
		B4.4	Zhishuang Yao, Szu Hui Ng, Loo Hay Lee	A Study on the Planning of Liner Ship Service with Ship Speed and Bunkering Port Considerations	Singapore

Time	Session	PID	Authors	Title	Country
	C1: SCM [II]	C1.1	Matthias Kannegiesser, Hans-Otto Günther, D. Otten	Global Supply Chain Sustainability in the Consumer Goods Industry	Germany
	Chair: Bongju Jeong	C1.2	Seungbae Sim, Jisoo Oh, Bongju Jeong	Greenhouse Gas Emissions for the Transportation Sector in Korea	Korea
	Chair. Bongja veong	C1.3	Susanne Wruck, Iris F.A. Vis, Jaap Boter	Batching Management in Warehouses for Companies with High Return Flows - Design and Categorization of Models and Approaches	Netherlands
	C2: Design & Operation	C2.1	Lu Zhen, Loo Hay Lee, Ek Peng Chew	Design Methodology for a New Type of Automated Container Terminal	Singapore
	II Chair: Amir Hossein	C2.2	Amir Hossein Gharehgozli, Yugang Yu, Rene de Koster, Jan Tijmen Udding	Sequencing Container Storages and Retrievals	Netherlands
	Gharehgozli	C2.3	Lu Chen, André Langevin	An Iterative Search Algorithm for Load Scheduling and Storage Allocation in a Maritime Container Terminal	China
		C2.4	Dong-Won Jang, Kap Hwan Kim	Optimizing Bay Dimension in Mixed Pyramid Stacking Storage Systems	Korea
15.00 16.20		C3.1	Byung Soo Kim, Woon Seek Lee	A Multi-product Dynamic Inbound Ordering and Shipment Scheduling Problem at a Third-party Warehouse	Korea
15:00-16:20	C3:Seaport and Transportation III	C3.2	Marco Lewandowski, Bernd Scholz-Reiter	A Framework for Systematic Design and Operation of Condition-Based Maintenance Systems: Evidence from a Case Study of Fleet Management at Sea Ports	Germany
	Chair: Hans-Dietrich Haasis	C3.3	Ki Ho Chung, Hyun Jeung Ko, Friska Natalia Ferdinand, Chang Seong Ko	Decision Making Model for Strategic Alliance of Service Centers and Consolidation Terminals in Express Courier Services	Korea
		C3.4	Hans-Dietrich Haasis	Seaport Container Terminal Services are Moving Inland – Challenges and Solutions	Germany
		C4.1	Jiyeong Pak, Gitae Yeo	A Study on Selection Criteria of Green Port and Evaluation of Major Korean Port	Korea
	C4: Maritime I	C4.2	Ann-Kathrin Pallasch, Jan Heitkötter, Bernd Scholz-Reiter	Innovative Transport System for Seaport Terminals - Ropeway for Marine Containers	Germany
	Chair: Won Young Yun	C4.3	Sufen Chen, Louie Nan Liu, Guoqing Liu	An Analysis of the Competition of Ports in Shanghai International Shipping Hub	China
		C4.4	Mu Han Mu, Guolong Lin, Bin Yang	Using DEA to Measure the Seaports Efficiency of China and Five Member Countries from ASEAN	China

Time	Session	PID	Authors	Title	Country
		D1.1	Paul Childerhouse, Hyung Jun Ahn, Habin Lee, Wen Luo, Gottfried Vossen	Logistical Service Provider Triadic Relationships	New Zealand
	D1: SCM IV Chair: Kwangyeol Ryu	D1.2	Seungjin Oh, Kwangyeol Ryu, Hyunbo Cho, Mooyoung Jung	Production and Procurement Plans for the Diversification of Supply Network Risks	Korea
		D1.3	Frank Arendt, Nils Meyer-Larsen, Rainer Müller	Heading Towards Supply Chain Predictability and Security	Germany
		D2.1	Gang Chen, Zhongzhen Yang	Integrated Tactical Planning Problem in Marine Container Terminals	Denmark
	D2: Design & Operation	D2.2	Rommert Dekker, Sander van der Heide, Eelco van Asperen	A Chassis Exchange Terminal to Reduce Truck Congestion at Container Terminals	Netherlands
	III Chair: Gang Chen	D2.3	Xuejing Yang, Joyce M.W. Low, Loon Ching Tang	Goal Programming Approach for Port Captive Hinterland Analysis	Singapore
		D2.4	E. Zehendner, G. L. Rodriguez-Verjan, N. Absi, Stephane Dauzere-Peres, D. Feillet	Optimizing and Simulating Loading/Discharging Resource Allocation in a Multimodal Container Port Terminal	France
		D3.1	Robert Stahlbock, Stefan Voß	Empty Container Management – State of the Art	Germany
16:40-18:00		D3.2	Shiwoo Lee, Weerakit Denkaew	Operating Yard Cranes over Storage Blocks to Minimize the Handling Time in a Container Yard	Korea
	D3: Seaport and Transportation IV	D3.3	Christian Bierwirth, Frank Meisel	Scheduling Reshuffle Operations and Double Cycles on a Single Quay Crane	Germany
	Chair: Stefan Voß	D3.4	Hyung Rim Choi, Hyun Soo Kim, Soon Goo Hong, Min Je Cho, Ki Nam Choi, Chang Hyun Park, Byung Ha Lee, Jeong Soo Ha	Development of E-Marketplace System for Improving the Market Structure of Korean Overland Transportation	Korea
		D4.1	Jovin Joseph Mwemezi, Youfang Huang	The Logistics of Facility Location on Spherical Surface	China
		D4.2	Namkyu Park, Chaekwan Lim, Branislav Dragović	Sensitivity Model of Transshipment Cargo by System Dynamics	Korea
	D4: Maritime II Chair: Namkyu Park	D4.3	Erpiani Siregar, Reni Meivayana, Sumarto, Nerli Haryani B, Jonny Zain, Mashur Siregar	Fishing Port in the Riau Province	Indonesia
		D4.4	Ralf Elbert, Roman Grig, Fabian Walter	Collaborative Planning: Interorganizational Planning Approach in the Maritime Transport Chain	Germany

Day 2-Sep.16(** Time	Session	PID	Authors	Title	Country
		E1.1	Matthew E. H. Petering, Katta Murty	Comparison of Real-Time Container Storage Location Assignment Strategies for Seaport Container Transshipment Terminals	USA
	E1: Simulation	E1.2	Te Xu, Seungsin Lee, Hyowon Suh	The Development of 3D Simulation Platform for Mobile Harbor Logistics and Opertation System	Korea
	Chair: Taesik Lee	E1.3	Woo-Sung Kim, Jong Hoe Kim, Hyoyoung Kim, Heyon Kwon, James R Morrison	Capacity and Queueing Evaluation of Port Systems with Offshore Container Unloading	Korea
		E1.4	Yanping Meng, Youfang Huang, Zhihua Hu, Bing Yang, Yi Ding	The Simulation Models and Technologies for Port Logistics based on Emergency Management	China
		E2.1	Marcel W. Ludema, Jan J.T. de Vlieger	Towards Profitable Supply Chains by Means of the Innovation Profit Model	Netherlands
09:00-10:20	E2: Business Process Management for Logistics	E2.2	Jaehyun Kong, Hyerim Bae	A Context-Based Framework for Flexible Control of Business Process in Logistics Environments	Korea
	Chair: Jaehyun Kong	E2.3	Jeong-Hyun Park, Hoyon Kim, Byung-Chul Cha, Jong-Heung Park	Maintenance System of Mail Sorting Machine	Korea
		E2.4	Bernardo Nugroho Yahya and Hyerim Bae	Similarity Measurement for Logistic Processes	Korea
	E2: Seeport and	E3.1	Frank Meisel, Christian Bierwirth	Benchmark Generation for Quay Crane Scheduling Problems	Germany
	E3: Seaport and Transportation V Chair: Frank Meisel	E3.2	Duc Vu Nguyen, Kap Hwan Kim	Comparing Various Strategies for Transporter Pooling in Container Terminals	Korea
	Chair: Frank Meisel	E3.3	Rico Gujjula, Hans-Otto Günther	Storage Block Assignment for Import Containers in Automated Seaport Container Terminals	Germany

Time	Session	PID	Authors	Title	Country
		F1.1	Chang Seong Ko, Eun Mi Yoon, Ki Ho Chung, Hyun Jeung Ko	Collaboration Based Reconfiguration of Package Service Network with Multiple Consolidation Terminals	Korea
	F1: SCM V	F1.2	Min Kwan Cho, Young Hae Lee	A Supply Chain Performance Measurement Using the Concept of Momentum	Korea
	Chair: Jirapan Liangrokapart	F1.3	Jirapan Liangrokapart	Key Performance Indicators for Logistics and General Management of Manufacturers in Plastic Industry	Thailand
		F1.4	Kai Zheng, Yihong Ru, Ruijiang Wang, Yu Zhu	Benefits Analysis on Circular Construction Products Supply Chain: Case Study in Beijing	China
	F2: IT Chair: Bonghee Hong	F2.1	Que Son Vo, Bernd-Ludwig Wenning, Carmelita Görg, Andreas Timm-Giel	Enhanced Intelligence of Wireless Sensor and Actuator Networks in Logistics by Application of Context-Awareness	Germany
10:40-12:00		F2.2	Yongxu Piao, Wooseok Ryu, Bonghee Hong	Index Construction for RFID Sensor Tag Data in RFID Middleware	Korea
		F2.3	Hae Kyung Lee, Taioun Kim	Agent-based Control Architecture to Improve the Performance of RFID	Korea
		F3.1	Xiaoning Shi, Stefan Voß	Port Choice Behavior of Liners under Cost and Demand Uncertainty - From the Perspective of Node Games	Germany
	F3: Seaport and Transportation VI	F3.2	Olcay Polat, Osman Kulak, Hans-Otto Günther	Short-term Routing and Transportation Planning in Spoke Networks in the Black Sea Region	Germany
	Chair: Hans-Otto Günther	F3.3	Il-Kyeong Moon, Anh-Dung Do Ngoc	The Capacity Expansion Problem in Container Terminals	Korea
		F3.4	Frank Schwartz, Stefan Voß	A Quantitative Approach for Supporting the Adaptation of Seaports to Modern Supply Chain Concepts	Germany

Day 2-Sep.16(T	Day 2-Sep.16(Thu)							
Time	Session	PID	Authors	Title	Country			
09:00-09:50	E4: Industrial Session I Chair: Kwang Ryel Ryu	E4.1	Sonke Hartmann	Planning and Operating Automated Container Terminals: Lessons Learned	Germany			
09:50-10:30		E4.2	Jang-Rim Choi	Automation of HJNC Terminal and Expected Results	Korea			
					·			
10:50-11:40	F4: Industrial Session II Chair: Kwang Ryel Ryu	F4.1	Daniel Pagac	Automation at Patrick Container Terminals: the AutoStrad Solution	Australia			
11:40-12:20		F4.2	Byung-Ho Kang	Performance Assessment of CATOS and CHESS through Emulator	Korea			

Day 2-Sep.16(T Time	Session	PID	Authors	Title	Country
		G1.1	MyungJin Choi, SangHeon Lee	Heuristic Approach for the Uncapacitated Multiple Traveling Purchaser Problem	Korea
	G1: SCM VI	G1.2	Bernd Scholz-Reiter, Michael Teucke, Anne Schweizer, Mehmet-Emin Özsahin	Flexible Product Allocation in Distribution Processes in an Apparel Supply Chain	Germany
	Chair: SangHeon Lee	G1.3	Vanina M. D. Silva, Antônio G. Novaes, Bernd Scholz-Reiter, Jakub Piotrowski	Introducing the Concept of Autonomous Agents as a Tool to Assist the Analysis of the Collaboration between Manufactured Exporters and Maritime Shippers	Brazil
		G1.4	Min Kyu Hwang, Young Hae Lee	Development of Optimization Model for Service Supply Chain	Korea
		G2.1	Ikju Jang, Suk-Chul Rim	A Heuristic Algorithm for Multi-Period, Multi-Modal Transportation Problem	Korea
13:00-14:20	G2: Intermodal	G2.2	Katsuhisa Okita, Takashi Amemiya	Optimization of Inter-Modal International Logistics	Japan
	Chair: Takashi Amemiya	G2.3	Albert Veenstra, Rob Zuidwijk	The Future of Seaport Hinterland Networks	Netherlands
		G2.4	Takashi Amemiya, Katsuhisa Okita	For the Optimal Allocation of Three Modes for the Intercontinental Transportation	Japan
		G3.1	Herbert Kopfer, Jörn Schönberger, Sebastian Sterzik, Ruiyou Zhang	Optimization of Inland Container Transportation with and without Container Sharing	Germany
	G3: Seaport and Transportation VII	G3.2	Joachim R. Daduna	Short Sea Shipping and River - Sea Shipping in the Multimodal Transport of Containers	Germany
	Chair: Joachim R. Daduna	G3.3	Byung-Hyun Ha, Tao Qin	A Conflict-Free Shortest-Time Routing Algorithm for Intermediate-Scale Path Network	Korea
		G3.4	Hans-Otto Guenther	Operative Transportation Planning in Consumer Goods Supply Chains	Germany

Day 2-Sep.16(T	ay 2-Sep.16(Thu)								
Time	Session	PID	Authors	Title	Country				
		H1.1	Duangpun Kritchanchai, Wirachchaya Chanpuypetch	Supply Chain Champion in Thailand: A Case of Rubber to Tire Industry	Thailand				
	H1: SCM VII Chair: Ho Gyun Kim	H1.2	Gyu Sung Cho, Young Jun Lee, Dae Wook Lee, Ho Gyun Kim	A Simulation Design Method of Refrigerated Warehouses Using an Aspect Oriented Approach Modeling	Korea				
		H1.3	Rainer Müller	Security Event Management	Germany				
		H2.1	Kun-Chih Wu, Ching-Jung Ting	A Beam Search Algorithm for Minimizing Reshuffle Operations at Container Yards	Taiwan				
	H2: Scheduling I Chair: Rommert Dekker	H2.2	Kyuhyeon Shin, Taesik Lee	A GA-Based Approach for Container Unloading Scheduling Problem with Mobile Harbor's Stability Constraint	Korea				
		H2.3	Eelco van Asperen, Bram Borgman, Rommert Dekker	Evaluating Impact of Truck Announcements on Container Stacking Efficiency	Netherlands				
14:40-16:00		H2.4	Inkyung Sung, Hochang Nam, Taesik Lee	A Study of Scheduling Algorithms for Mobile Harbor with An Extended M-parallel Machine Problem	Korea				
		Н3.1	Marco Caserta, Silvia Schwarze, Stefan Voß	Container Rehandling at Maritime Container Terminals	Germany				
	H3: Seaport and	Н3.2	Albert Douma, Henk Zijm	Aligning Barge and Terminal Operations in the Port of Rotterdam by Means of a Multi-Agent System	Netherlands				
	Transportation VIII Chair: Herbert Kopfer	Н3.3	Herbert Kopfer, Jörn Schönberger, Kap Hwan Kim, Su Min Jeon	Collision-Save Routing of a Fleet of Automated Guided Vehicles through a Network: The Forward-Positioning Planning Problem	Germany				
		Н3.4	Kiyeok Park, Taejin Park, Kwang Ryel Ryu	Planning for Selective Remarshaling in a Container Terminal Using Evolutionary Algorithms	Korea				
	H4: Invited Speech	H4.1	Mitsuo Gen	Flexible Logistics Network Model: Evolutionary Approach and Case Study	Japan				
	Chair: Il-Kyeong Moon	H4.2	Erhan Kozan	Techniques for Inserting Additional Container Trains into Existing Timetables	Australia				

Day 2-Sep.16(Thu)					
Time	Session	PID	Authors	Title	Country
16:20-17:40	I1: Empty Container Chair: Michael G. H. Bell	I1.1	Loo Hay Lee, Ek Peng Chew, Yin Long, Yi Luo, Jijun Shao	A Computer Simulation Model of Empty Container Movement	Singapore
		I1.2	Michael G. H. Bell	A Frequency-based Maritime Container Assignment Model	United Kingdom
		I1.3	Yin Long, Loo Hay Lee, Ek Peng Chew	A Study on Stochastic Empty Container Repositioning Problem	Singapore
	I2: Scheduling II Chair: Byung-In Kim	I2.1	Byung-In Kim, Sooyoung Chang	Berth and Unloader Scheduling Problem at a Raw-Material Port	Korea
		I2.2	K L Mak, Di Sun	An Exact Algorithm for the Berth Allocation Problems with Time Windows	Hong Kong
		I2.3	Brad Casey, Erhan Kozan	Optimising Container Storage Processes at Multimodal Terminals	Australia
		I2.4	Etsuko Nishimura, Akio Imai, Yoshiyasu Urushibara	Container Storage Planning by Meta-Heuristics	Japan
	I3: Seaport and Transportation IX Chair: Axel Hahn	I3.1	Robert Stahlbock, Stefan Voß	Container Logistics and Data Mining	Germany
		I3.2	Axel Hahn	Virtual Terminal Operation System for Joint Evaluation of Operation Strategies	Germany
		I3.3	Young-Man Park, Jong-Wook Bae	The Integrated Truck Sequencing and Storage Location of Export Containers Problem in a Container Terminal	Korea
	I4: Invited Speech Chair: Il-Kyeong Moon	I4.1	Loon Ching Tang	Maritime Trade Evolutions and Port City Developments in Asia	Singapore