The Maritime Transport of the Future

The Role of Innovation Uptake, Sustainability and Availability of Shipping Finance

Annual Conference of the International Association of Maritime Economists

23 - 26 August 2016, Hamburg, Germany
Greetings from the IAME President

Dear IAME 2016 Participant,

It gives me great pleasure to personally welcome you to the IAME 2016 conference in my home-town Hamburg. While I myself currently work for the United Nations in Geneva (Switzerland), the conference hosts are Professor Michele Acciaro (Italian) from Kühne Logistics University and Professor Orestis Schinas (Greek) from the Hamburg School of Business Administration – a nice illustration of how international our Association is.

Special thanks go to the entire organizing team and steering committee. We have a new record number of papers that were submitted for review. This required extra efforts and time from the organizers and reviewers – and at times some patience from the authors.

As we prepare for our 25th Anniversary next year in Kobe (Japan), I think it is good news to also have a German city hosting an IAME conference for the first time, given the important role German companies and ports play especially in container shipping. Welcome on board!

Now, I can only wish you a very pleasant stay in the old Hansestadt Hamburg – a city whose entire history and development is linked to its port and shipping business. Today, Hamburg is also a center of international media companies, is among the most visited cities in Germany, and hosts the International Tribunal for the Law of the Sea. Building upon its tradition of being the “Tor zur Welt” – the gate to the world – it is just the right place for our 2016 IAME conference.

With best wishes,

Dr. Jan Hoffmann
IAME President
Greetings from the Conference Chairs & Hosts

Dear IAME 2016 Participants, dear colleagues and IAME friends,

We are extremely pleased of having been able to bring IAME to Hamburg, as we are proud of showing what this city has to offer—and it is a lot, especially for those with a passion for shipping and ports. As neither of us was born in Germany, the fact that we chose to make Hamburg our home among the many places around the world is not only because of the reputation of our Institutions and our jobs. Our choice is the result of the richness of experiences that the city has to offer, of its vibrant business community and of the many opportunities that allowed us to create in Hamburg the life we feel is most suitable for us. We are sure that all of you will enjoy all that makes this city very special: its entrepreneurial spirit, its trade and commerce tradition, its liberal attitude and its open-mindedness.

Hamburg is an ideal place to host IAME, being an important global harbour, a centre for ship finance and an innovative maritime cluster. We tried our best to offer you a good overview of the city through the social programme that we have put together and of its maritime tradition through the technical tours and we hope that the maritime knowledge that Hamburg has to offer will resonate in the rich scientific programme. It has been a lot of work, for which we certainly need to thank our collaborators, our sponsors and anybody that made IAME 2016 in Hamburg possible, and we hope that this effort will result in a most gratifying experience for all of you.

Enjoy the conference and we hope for many happy returns to this beautiful metropolis on the Elbe,

Prof. Dr. Michele Acciaro
Associate Professor of Maritime Logistics
Head of Logistics Department
Kühne Logistics University (KLU)

Prof. Dr. Orestis Schinas
Professor of Shipping and Ship Finance
Head of Maritime Business School
Hamburg School of Business Administration (HSBA)

About IAME & the Conference

The International Association of Maritime Economists (IAME) was created in the early 1990s and has since then become the most prominent global group of scholars with an interest in maritime transport, interpreted in the broadest sense to include ports, shipping and hinterland transport. IAME members come from a variety of research backgrounds, primarily economic and management, but also logistics, finance, engineering and social sciences. It is the aim of the IAME to promote and facilitate the productive exchange of knowledge, information and experience on economic issues within the wider maritime sector, among academics, professionals and policy makers.

The main event for the Association is its Annual Conference that brings together academics from every corner of the planet every year to a different location. The IAME Annual Conference is an opportunity for the world scientific community to meet and discuss current research topics and to contribute to the development of maritime economics and management as an independent discipline.

Organising Committee

Prof. Dr. Michele Acciaro
Associate Professor of Maritime Logistics, Head of the Logistics Department, Equality and Diversity Officer, Kühne Logistics University (KLU)

Prof. Dr. Orestis Schinas
Professor of Shipping and Ship Finance, Head of Maritime Business School, Hamburg School of Business Administration (HSBA)

Prof. Dr. Wolfgang Drobetz
Professor of Corporate Finance and Ship Finance, University of Hamburg

Prof. Dr. Stefan Voß
Professor and Director of the Institute of Information Systems at University of Hamburg

Prof. Dr. Carlos Jahn
Professor of Maritime Logistics, Hamburg University of Technology and Director of the Fraunhofer Center for Maritime Logistics and Services (CML)

Prof. Dr. Michele Acciaro
Associate Professor of Maritime Logistics
Head of Logistics Department
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Prof. Dr. Stefan Voß
Professor and Director of the Institute of Information Systems at University of Hamburg

Prof. Dr. Wolfgang Drobetz
Professor of Corporate Finance and Ship Finance, University of Hamburg

Partners

Hosts and Co-Organisers

Supporting Institutions

Sponsors
Hosting Institutions

Hamburg School of Business Administration (HSBA)
HSBA is the university for business in Hamburg. Founded in 2004 by Hamburg’s Chamber of Commerce as a state-recognised third-level institution, it offers bachelor’s and master’s degrees in business as dual and part-time courses for 870 students. We cooperate with more than 250 companies, which are actively involved in designing and developing our courses in order to ensure that they are constantly aligned with business needs. This means that HSBA graduates are perfectly prepared for the requirements of business and have excellent career opportunities. High-quality further education for skilled employees and executives, as well as application-oriented research and consultancy, complete the services offered by HSBA. Our Executive Education programme draws on the management know-how of our teaching staff and on our manifold experiences with our MBA courses for people in employment. HSBA is strongly influenced by the model of the honourable merchant, whose entrepreneurial dealings lead to success in business while also assuming social responsibility. Accordingly, we signed the six “Principles for Responsible Management Education (PRME)” of the UN, which aim to train future managers.

“We are proud that HSBA has the opportunity to co-host such a renowned conference, which will bring maritime experts from all over the world to our city and our university, and thus, contribute to - and be part of - this exceptional scientific community. As business hub for the maritime industry, Hamburg is the ideal place to also foster applied academic research. We wish all participants a successful conference, insightful presentations and inspiring discussions.”

Prof. Dr. Hans-Jörg Schmidt-Trenz, President of HSBA

Kühne Logistics University (KLU)
The Kühne Logistics University, Wissenschaftliche Hochschule für Logistik und Unternehmensführung (KLU) is an independent, state-accredited, private university focusing on logistics and management. Sponsored by the nonprofit Kühne Stiftung, KLU offers a broad spectrum of courses and research in logistics and supply chain and business management.

Our BSc, MSc, and PhD degree programs feature an international student body, an outstanding faculty, an intimate learning environment, and extensive corporate ties. Our Executive MBA program, a seminar series, and international summer and autumn schools provide excellent opportunities for professionals to expand their expertise.

KLU is unique for its international faculty known for research excellence in logistics, transportation, supply chain management, and related aspects of business. Our research and teaching in these fields is structured as three areas of competence: digital transformation, creating value and sustainability. KLU is situated in the waterfront urban development area of HafenCity in Hamburg, which as one of Europe’s largest seaports is ideal for the campus. KLU is one of the top universities in the 2014 Handelsblatt research ranking of business administration faculties and achieved top ratings in the 2014 CHE university rankings.

“We at KLU are proud to be one of the hosts of this year’s IAME conference and invite you to explore the opportunities this conference and the highly renowned researchers it attracts from all over the world provide. We are looking forward to meeting extraordinary people, exchanging innovative ideas and building new partnerships, both in research and in industry.”

Thomas Strothotte, President and Managing Director of KLU

Co-Organising Institutions

University of Hamburg
The University of Hamburg is the largest university in Hamburg, Germany. It was founded on 28 March 1919 by Wilhelm Stern and others. It grew out of the previous Allgemeines Vorlesungswesen and the Kolonialinstitut (Colonial Institute) as well as the Akademisches Gymnasium. In spite of its relatively short history, six Nobel Prize Winners and a number of internationally renowned scholars are affiliated to the University. The annual recruitment of about 7,000 freshmen contributes to the current total of 38,000 students, of which every year 3,500 reach graduations and of which 900 receive doctoral degrees. Students can choose from 120 different majors which are offered by six faculties.

Klungiugt Calendar University
The TUHH is one of Germany’s youngest and most successful universities. Plans for a university of technology in the Süderelbe area of Hamburg go back to the 1920s. Fifty years later, in 1978, the Hamburg University of Technology came into being, its mission to promote structural change in the region. Between 1982 and 2005, a campus university grew up in the south of Hamburg, its modern buildings blending into the terrain. Now, the TUHH has around 100 professors and 1,150 employees (including 500 academic staff, inclusive of those with salaries from third party funding). With around 5,000 students, this makes for an excellent staff-student ratio.

Fraunhofer Center for Maritime Logistics and Services (CML)
The Fraunhofer Center for Maritime Logistics and Services (CML) conducts professional contract research for private and public sector clients in the maritime industry, including port/terminal operators, shipping companies and logistics service providers. CML plans, develops, and implements innovative, customer-focused problem solutions for the maritime supply chain.

At KLU Kühne Logistics University
Greeting from the ISSC

On behalf of the Organising Committee and the Programme Committee of the International Association of Maritime Economists (IAME) Conference 2016, we welcome all IAME Members, Non-Members, as well as participants from Industry and Governmental representatives to Hamburg. Our institutions north and south of the river Elbe feel honored hosting this conference.

Maritime Shipping and Maritime Economics are currently facing major challenges (as almost always). Obvious ones are dealing with cascading, difficulties in having profitable freight rates and enforcements regarding emission reductions. But there are more. While modern information and communication infrastructure allows us to deal with so-called big data and cloud computing, problems and stakeholders need to become integrated. Various problems are interwoven and we are now in a position of thinking about solving them in an integrated fashion.

We are improving the situation in many aspects; we are even improving in the way we optimize. However, when everything gets optimized in perfect plans there is (almost) no more room for changes. A grand challenge not only in maritime shipping refers to the way we are dealing with disturbances. It need not be a tsunami, it can be small changes. Or it can be missed opportunities. And still, we need to find ways to cope with them.

To deal with all these challenges, maritime economics needs to broaden its scope. It needs to open up towards intelligent problem solving, the development of advanced decision support systems, connectivity that is not only seen as an enabler of trade between countries on a macro level, but also considers capacity restricted transport corridors on the micro level. Having said all that, there is so much room for future research in maritime shipping and maritime economics.

IAME is there to face it. Our conference is there to face it. On behalf of everybody supporting the academic programme of the conference, readers, writers, presenters, listeners, referees and alike together with everybody in the various committees we wish our conference every possible success. We sincerely hope that the conference will be as pleasant and as memorable as possible.

Let’s be inspired by the most beautiful city in the world and advance maritime economics spreading from the Gate to the World to the world; it pays.

With best wishes,

Prof. Dr. Stefan Voß
Chairman of the ISSC
University of Hamburg, Institute of Information Systems

International Scientific Steering Committee (ISSC)

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University of Hamburg, Germany

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(Vice-Chairman)
Kühne Logistics University, Germany

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University of Liverpool, United Kingdom

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SINTEF Materials and Chemistry, Norway

Prof. Dr. Beatriz Tovar de la Fe
University of Las Palmas, Spain

Prof. Dr. Thierry Vandebriel
University of Antwerp, Belgium

Prof. Dr. Iljas Visvikis
World Maritime University, Sweden

Prof. Dr. Gordon Wilmsmeier
ECLAC, Chile

Prof. Dr. Rosa G. González Ramírez
Universidad de Los Andes, Chile

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University of Portsmouth, United Kingdom

Dr. Xiaoming Shi
University of Hamburg, Germany

Prof. Dr. Masahito Shinohara
Tokai University, Japan

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World Maritime University, Sweden

Prof. Dr. Gordon Wilmsmeier
ECLAC, Chile
IAME Reviewers

The IAME 2016 Hamburg organisers would like to thank the reviewers for their support in the assessment of the papers and for the valuable comments provided to the authors. This has allowed offering at least two, and in most cases three, reviews per paper submission. The following people have contributed to the review process:

Noorul Shaiful Fitri Abdul Rahman
Michele Acciaro
Roar Adlard
Panagiotis Angeloudis
Chiorghie Batrinca
Rickard Bergqvist
Suresh Bhardwaj
Emrah Bulut
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Theodore Syriopoulos
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George Vaggelas
Vincent Valentine
Eddy van de Voorde
Martijn van der Horst
Larissa van der Lugt
Edwin van Hassel
Thierry Vanelander
Ilias Vovkis
Stefan Voß
Grace Wang
Michael Weckhardt
Gordon Wilmsmeier
Yutaka Yamamoto
Zaill Yang
Zhongheng Yang
Tsz Leung Yip
Lau Yiu Yip
Huaying Zhang
Thails Zis
## Programme Overview

### DAY 0

**23 August**
- 09:00: KLU, Port Performance Research Network
- 17:00: KLU, Welcome Reception

### DAY 1

**24 August**
- 08:00: HSBA, Registration and Coffee
- 09:00: HSBA, Plenary: Opening Ceremony
- 10:30: Coffee Break
- 11:00: HSBA, Parallel Sessions (Slot 1)
- 12:40: Lunch Break
- 14:00: HSBA, Parallel Sessions (Slot 2)
- 15:40: Coffee Break
- 16:00: HSBA, Parallel Sessions (Slot 3)
- 17:40: HSBA, End of Day 1

### DAY 2

**25 August**
- 09:00: HSBA, Parallel Sessions (Slot 4)
- 10:40: Coffee Break
- 11:00: HSBA, Parallel Sessions (Slot 5)
- 12:40: Lunch Break
- 14:00: HSBA, Plenary: Migration by Sea and its Impact on Humanitarian and Maritime Operations
- 15:40: Coffee Break
- 16:00: HSBA, Parallel Sessions (Slot 6)
- 17:40: HSBA, End of Sessions
- 19:00: EMPORIO, Gala Dinner and Conference Award Prize Ceremony (Dammtorwall 15)

### DAY 3

**26 August**
- 09:00: KLU, Technical Tours
- 13:00: KLU, Lunch Break
- 14:00: KLU, Closing Ceremony and AGM

## Detailed Programme

### DAY 0

**23 August**
- 09:00: KLU, Room EE1, Floor 5, Port Performance Research Network
- 14:00: KLU, Room EE1, Floor 5, IAME Council Meeting I
- 14:00: KLU, Foyer, Technical Tour: UNESCO World Heritage Site Warehouse District, Hafencity and Maritime Museum
- 17:00: KLU, Foyer, Welcome Reception

### DAY 1

**24 August**
- 09:00: HSBA, Commerzsaal, HCC, Plenary: Opening Ceremony
  - Welcome Address
  - Senator Frank Horch, Senator of the Ministry of Economy, Transport and Innovation
  - Jan Hoffmann, IAME President
  - Address of the Organising Committee
  - Michele Acciaro, Kühne Logistics University (KLU)
  - Orestis Schinas, Hamburg School of Business Administration (HSBA)
  - Wolfgang Drobetz, University of Hamburg
  - Carlos Jahn, Hamburg University of Technology, Fraunhofer Center for Maritime Logistics and Services (CML)
  - Stefan Voß, University of Hamburg
  - Keynote Speech
  - Peter Lorange, CEO, Lorange Institute of Business Zurich
- 10:30: HSBA, Commerzsaal, HCC, Coffee Break
- 14:00: HSBA, Commerzsaal, HCC, Parallel Sessions (Slot 2)
- 15:40: Coffee Break
- 16:00: HSBA, Commerzsaal, HCC, Parallel Sessions (Slot 3)
- 17:40: End of Sessions
- 19:00: EMPORIO, Gala Dinner and Conference Award Prize Ceremony (Dammtorwall 15)
## Session 1

### Session B1

**Auditorium HKIC (Adolphsplatz 6)**

**Chair:** M. Acciaro

**Emissions from Shipping**

**On Compliance with Air Pollution Limits from Ships in SECA - A Survey among Swedish Shipowners (O)**

Yutaka Yamamoto

**Industries and Economic Management & Logistics Group School of Business, Economics and Law, University of Gothenburg, Sweden**

**The Implications of the Lower Sulphur Limits on Ro-Ro Shipping in Northern Europe (O)**

**Thais Zil, Harillas Parasitsis**

Technical University of Denmark, Denmark

**Ship Owners’ Choice of Engine Low Emission Technologies in Different Markets and Segments. (O)**

Christie Wilk, Seppe Neemi

Voss University, Finland

**Effects of Market-Based Measures on a Maritime Company: Dynamic Model Approach. (O)**

Hidemi Tanaka, Akira Okuda

Tokyo City University, Japan

**Value-Based Optimization of Reefer ContainerShip Sailing Speed (O)**

Xianlian Zhang, Jazmine Su Lee Lam

Nanyang Technological University, Singapore

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### Session C1

**Hinterland Transportation**

**Chair:** J. Monios

**Port Competition through Hinterland Accessibility: the Case of Spain (O)**

Ping Wang1, Joan Mileski1, Qingcheng Zeng2, Ziaul Haque Munim, Naima Saed1

1Texas A&M University at Galveston, United States, 2Dalian Maritime University, China

**Identifying the Dimensions of Seaport Performance from a Stakeholders Perspective - A Systematic Review (O)**

Ziaul Haque Munim, Naima Saeed

University of Agder, Norway

**Empirical Analysis of Strategic Fit: The Implications for Seaport Performance (O)**

Kevin Saeed, Naima Saed

Technische Universität Darmstadt, Germany

**On Compliance with Air Pollution Limits from Ships in SECA - A Survey among Swedish Shipowners (O)**

Lorenza García-Arnés1, Jason Monios1, José Angel Vallejo-Pinto2

1University of Oviedo, Spain, 2Edinburgh Napier University, United Kingdom

**The Impact of Order Changes on the Order Process Efficiency in the Maritime Transport Chain (O)**

Ralf Ebert, Katrin Schär

Technische Universität Darmstadt, Germany

**Application of Bayesian Networks in Analysing Tanker Shipping Bankruptcy Risks (O)**

Grace Wang1, Zhiwen Yang1, Xi Zhang1, Anqi Huang2, Zaili Yang1

1Liverpool John Moores University, United Kingdom, 2Ulsan National University of Technology, China

**A Practical Review of the Theories for Calculating Bunker Hedging Ratios (O)**

Rejik Sahin, Emrah Balci

Konya Technical University, Turkey, Yildiz Technical University, Turkey

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### Session D1

**Ship Finance**

**Chair:** I. Visvikis

**Application of Bayesian Networks in Analysing Tanker Shipping Bankruptcy Risks (O)**

Grace Wang1, Zhiwen Yang1, Xi Zhang1, Anqi Huang2, Zaili Yang1

1Liverpool John Moores University, United Kingdom, 2Ulsan National University of Technology, China

**Economic Information Transmissions between Shipping Markets: New Evidence from Freight Derivatives Markets (O)**

Ilia Visvikis1, George Alexandridis2, Satya Sahoo2

1World Maritime University, Sweden, 2Hamburg Business School, Univ. of Reading, United Kingdom


Almedin Bihic1, Ditrikoh Shehu2

1University of Oviedo, Spain, 2Edinburgh Napier University, United Kingdom

**Seaport Competitiveness Research: A Bibliometric Citation Meta-Analysis (O)**

Ziaul Haque Munim, Naima Saed

University of Agder, Norway

**Identifying the Dimensions of Seaport Performance from a Stakeholders Perspective - A Systematic Review (O)**

Eamonn O’Connor, Arzayaa Vega, Natasha Evers

National University of Ireland Galway, Ireland

**Port Competitiveness Assessment for Major Container Terminals of Turkey (O)**

Okan Duru1, Serdar Alipak2

1Texas A&M University at Galveston, United States, 2Dokuz Eylul University, Turkey

**Alignments between Strategic Content and Process Structure: The Case of Container Terminals Service Process Automation (O)**

Ping Wang1, Joan Mileski1, Qingcheng Zeng2

1Texas A&M University at Galveston, United States, 2Dalian Maritime University, China

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### Session E1

**Room Merkur**

**Hamburg Chamber of Commerce**

**Port Economics and Management**

**Chair:** J. Rosmanis

**Port Competition and Cooperation (The IMO Low-Sulphur Fuel Requirements: An Evaluation from a Seaport Competitiveness Perspective (O)**

Mohammad Valani

University of Antwerp, Belgium

**Understanding Governance Perspectives and Handling Dynamics: The Role of Cultural Dynamics in the Port-City Relationships (O)**

Joos Vroomans1, Harry Geerlings1, Bart Kuipers1

1University of Antwerp, Belgium

**Entrepôt Maximising Facility Location Model for Port City Intermodal Terminals (O)**

Michael Bell, Collins Teye

1TSI, University of Sydney Business School, Australia

**The Impact of Order Changes on the Order Process Efficiency in the Maritime Transport Chain (O)**

Ralf Ebert, Katrin Schär

Technische Universität Darmstadt, Germany

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### Session F1

**Room Merkur**

**Hamburg Chamber of Commerce**

**Port Economics and Management**

**Chair:** J. Rosmanis

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**The Impact of Order Changes on the Order Process Efficiency in the Maritime Transport Chain (O)**

Ralf Ebert, Katrin Schär

Technische Universität Darmstadt, Germany

**The Disadvantages of Scale in Container Maritime Shipping (O)**

Jean-Paul Rodrigue

Hofstra University, United States

**Ultra Large Containerships (ULCs) - Analysis of Economies of Scale (O)**

Changpian Guan1, Shmuel (Sam) Yahalom2, Jun Yu3

1Dokuz Eylül University, Turkey, 2University of Economics Prague, Czech Republic, 3University of Agder, Norway

**Role of Cultural Dynamics in the Port-City Relationships (O)**

Joos Vroomans1, Harry Geerlings1, Bart Kuipers1

1University of Antwerp, Belgium

**Entrepôt Maximising Facility Location Model for Port City Intermodal Terminals (O)**

Michael Bell, Collins Teye

1TSI, University of Sydney Business School, Australia

**The Impact of Order Changes on the Order Process Efficiency in the Maritime Transport Chain (O)**

Ralf Ebert, Katrin Schär

Technische Universität Darmstadt, Germany

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### Session G1

**Room 4.07**

**HKIC (Adolphsplatz 6)**

**Chair:** J. Monios

**Port Competition through Hinterland Accessibility: the Case of Spain (O)**

Lorenza García-Arnés1, Jason Monios1, José Angel Vallejo-Pinto2

1University of Oviedo, Spain, 2Edinburgh Napier University, United Kingdom

**The Impact of Order Changes on the Order Process Efficiency in the Maritime Transport Chain (O)**

Ralf Ebert, Katrin Schär

Technische Universität Darmstadt, Germany

**Application of Bayesian Networks in Analysing Tanker Shipping Bankruptcy Risks (O)**

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1World Maritime University, Sweden, 2Hamburg Business School, Univ. of Reading, United Kingdom

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Konya Technical University, Turkey, Yildiz Technical University, Turkey

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### Session H1

**Room Hansa**

**Hamburg Chamber of Commerce**

**Port Competitiveness**

**Chair:** O. Duru

**Seaport Competitiveness Research: A Bibliometric Citation Meta-Analysis (O)**

Ziaul Haque Munim, Naima Saed

University of Agder, Norway

**Identifying the Dimensions of Seaport Performance from a Stakeholders Perspective - A Systematic Review (O)**

Eamonn O’Connor, Arzayaa Vega, Natasha Evers

National University of Ireland Galway, Ireland

**Port Productivity Assessment for Major Container Terminals of Turkey (O)**

Okan Duru1, Serdar Alipak2

1Texas A&M University at Galveston, United States, 2Dokuz Eylul University, Turkey

**Alignments between Strategic Contents and Process Structure: The Case of Container Terminals Service Process Automation (O)**

Ping Wang1, Joan Mileski1, Qingcheng Zeng2

1Texas A&M University at Galveston, United States, 2Dalian Maritime University, China
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Chair: Y.-K. Woo
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Xavier Fageda, Magda González-Aregall
University of Barcelona, Spain
Using Tariff Data for Port Economic Impact Analysis of Cargo Movement (O)
Cezar Wang, Wee Hwa Chang; Yue Gu
Texas A&M University Galveston, United States, US Army Corps of Engineers, United States, 'Michigan State University, United States
Rating Ports and Benchmarking their Relative Evolution: a Principal Component Analysis Applied to the Hamburg - Le Havre Range (O)
Jaeont Heijjens
University of Antwerp, Belgium
The Minimum Efficient Scale of the Port Industry (O)
Young-Joon Seo1, Jin Suk Park2, Dong-Wook Kwak2
1Texas A&M University Galveston, United States, 2US Army Corps of Engineers, United States, 3Michigan State University, United States

Session B3
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Chair: N. Nomikos
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Vangelis Tsimokas1, Stasos Papadimitriou1, Yiannis Smirou1
1DEEE - The American College of Greece, Greece, 2University of Piraeus, Greece
Analysis of the Development Potential of Bulk Shipping Network on the Yangtze River (O)
Dong Yang, Shaolian Wang
The Hong Kong Polytechnic University, Hong Kong
Vessel Price Formation and Second-Hand Market Activity in the Dry Bulk Shipping Industry. (O)
Ioannis Mantzourakis, Nikos Nomikos
City University London, United Kingdom
Unmanned Autonomous Ships - An Exploratory Comparative Cost-Benefit Analysis for a Bulk Carrier (O)
Lutz Kretzschmann, Hans Christoph Burmeister, Carlos John Frouwhofener Center for Maritime Logistics and Services CML, Germany
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Maria Giannouli, Nikos Nomikos
City University London, United Kingdom

Session C3
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The Cruise Industry
Chair: M. Leikalou
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Gorkem Döker, Ersoy First Alagöz
1Dokuz Eylül University, Turkey, 2Bodrum University of Ege University, Turkey
Supply Chain Disruptions in the Cruise Line Industry (O)
Alyssa Adams, Amir Hossain Charegbazz, Joan MleekisTexas A&M University Galveston, United States
Cruise Industry - Shipyard Selection for Maintenance and Repair of Cruise Vessels (O)
Sarah Meier, Greteis Schmiet
TUI Cruises, Germany, Hamburg School of Business Administration

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Chair: M. Furuichi
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Dara O'Connell, Elena Efremova
1University of Helsinki, Finland, 2St. Peterburg State University, Russia
A Dynamic Capabilities Perspective on First Mover Advantages of Norway in the Northern Sea Route (O)
Helene Selvang, Stavne Krampermen" 1Kühne Logistics University, Germany, 2Norwegian University of Science and Technology, Norway
The Future of Arctic Shipping Business and the Positive Influence of the Polar Code (O)
Dimitrios Dakidaki, Evi Bazarakaki, Petros Sotsioukas
1World Maritime University, Sweden, 2University of the Aegean, Greece
Container Size Delivery Scenario between East Asia and Northwest Europe by the NSR/SCR-Combined Shipping in the Age of Mega-Ships (O)
Masaaki Furukawa, Natsuko Osuka
1Kyoto University, Japan, 2Hakodate University, Japan

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Chair: P.T.-W. Lee
Food Miles Study of China’s Agricultural Expots Logistics (O)
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Shandong University, China
An Anatomy of the “One Belt and One Road” from the Viewpoint of Port Trade (O)
Paul T-W Lee
IMT Institute, Switzerland
Forecasting Australian Port Throughput: Lessons and Pitfalls in the Era of Big Data (O)
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Reflecting Economic Activity through Ports: The Case of Australia (O)
Jason Angphykporpa, Perra Parfoula, Thomas Vitosounis, Constantinos Chloridoulis, Ioannis Tsaloglou,1
University of Piraeus, Greece, 2University of the Aegean, Greece, 3CSIRO, Australia

Session F3
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Port Management and Port Hinterland
Chair: J.S.L. Lam
Recent Shifts on Hinterlands - just a Matter of Economics of Scale? (N)
David Garnham, Université Picardie, France
A Research on Coastal and Port Selection in Contantabale Hinterlands (N)
Kemal Alpay1,2, Deniz Alper3, Erkan Kurbatska, Galavy Raji1, Olsouf Eyal University, Turkey, 2Cork University, Turkey, 3Azerbaijan Technical University, Turkey, 2Azerbaijan Technical University, Turkey
Dynamics in Terminal Operations: the Role of Performances (N)
Claudio Ferraro, Pier Paolo Pudalati, Alesso T1
1University of Genoa, Italy, 2Newcastle University, United Kingdom
Towards Sustainable Port Development Model: A Comparative Analysis between Singaporean and Korean Ports (O)
Seowyun Rhy, Vinh Van Trung, Giang Vinh Tran, Huyen-Ha Nguyen, Fikri Dian Winy
1Plymouth University, United Kingdom, 2Hamburg University of Applied Sciences, Germany, 3University of Indonesia, Indonesia, 4University of South Australia, Australia
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Mhyra Park, Young-Tae Chang
1Korea University, South Korea
Comparison on Competitive Advantages of Major World Maritime Clusters (O)
Wei Zhang, Jasmine Lee Sier Lin
1National Centre for Ports and Shipping, Australian Maritime College, University of Tasmania, Australia, 2School of Civil and Environmental Engineering, University of Technology, Singapore

Session H3
Room Elbe
HKIC (Adolphsplatz 6)
Big Data Applications in Shipping and Ports
Chair: J. Hoffmann
Remote Container Management at Maersk Line (E)
Sébastien Zurheide, Maersk Line, Denmark
Are AIS-based Trade Volume Estimates Reliable? The Case of Crude Oil Tankers (E)
Roar Adland Norwegian School of Economics (NHH), Norway
Hoying Jin, Center for Applied Research (SNF), Norway
Red Alliland Norwegian School of Economics (NHH), Norway
Siri P. Strømsnes, Norwegian School of Economics (NHH), Norway
Assessing Port Connectivity Using Maritime Big Data (E)
Vanessa Sotnikova & Ove Daae Lampe, Christian Michelsen Research, Norway
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Haiying Jia, Center for Applied Research (SNF), Norway
Norway, Siri P. Strømsnes, Norwegian School of Economics (NHH), Norway
Helene Solvang1, Stavros Karamperidis2, Nikolas Valantasis-Kanellos3, 4Dubin Institute of Technology, Ireland, 5World Maritime University, Sweden
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Mapping the Maritime Transport/Shipping Literature: Bibliometric Analysis and a Qualitative Research (O)
Haiying Jia, Center for Applied Research (SNF), Norway
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Helene Solvang1, Stavros Karamperidis2, Nikolas Valantasis-Kanellos3, 4Dubin Institute of Technology, Ireland, 5World Maritime University, Sweden

E = Extended Abstract  O = Peer-Reviewed Paper  N = Non-Reviewed Paper 24 August | 16:00 - 17:40
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Session A4
Commerzraum
Hamburg Chamber of Commerce

Port Management
Chair: M. Shinohara

Port Management Strategy in Asia - Away from the Existing Paradigm (E)
Masaaki Shinohara
Kyoto University, Japan

Competitiveness of Port of Rotterdam: A Resource Base View (O)
Shiva Malacari, Reet H. Kam
RMIT University, Australia

The Institutional and Operational Functions of Port Authorities: The Govt.-Men Approach. (O)
Korean Institute of Maritime Transport, South Korea

Environmental Sustainability and Energy Efficiency Regulations: The Italian Case (E)
Francesco Parola, Enrico Lobrigo
University of Genoa, Italy, 2Newcastle University, United Kingdom

Enhancing Safety by Introducing a Technical Documentation Standard (O)
Shaun Ruggunan
University of KwaZulu-Natal, South Africa

Merchant Navy (E)

An Exploratory Study of the Training of South African Officers in the Merchant Navy (O)
Irene K. Ng, Klaas van den Berg, J.P. Le Roux
Cape Town University, South Africa

Environmental Port Charges Reduction Schemes: an Economic Analysis (E)
Michèle Azizian1, Vaibhav Kosmat1
Institute of Logistics, Germany, 2Copenhagen Business School, Denmark

Environmental Differentiated Port Infrastructure Charging: Current Status and Implications in the Hamburg-Le Havre Range (O)
Magali Geertz, Michael Dooms, Mychal Langenous
Vrije Universiteit, Brussels, Belgium

Tackling Uncertainty in Green Pricing Decision-Making: the Case of Port Infrastructure (O)
Magali Geertz, Michael Dooms, Mychal Langenous
Vrije Universiteit, Brussels, Belgium

Optimal Port Pricing in the Mediterranean Basin (O)
Christodoulos Statovas, Dimitris Tsoukridis, Phoas Panayides
Cyprus University of Technology, Cyprus

A Critique of South Africa’s National Ports Authority’s Revenue Required Pricing Methodology (O)
Sarelle Gasseode, Milhaids Chasomeris
University of KwaZulu-Natal, South Africa

Quality Shipping 2020 and Fair Pricing of Transport (O)
Christian Rahbini, Andreas Hübischer,1 HANS Agentur für Innovation und Nachhaltigkeit im Seeverkehr, Germany, 1SGL, Germany

Session C4
Room 4.07
HKIC (Adolphsplatz 6)

Green Shipping
Chair: V. Lun

Development of a Ship Weather Routing System for Energy Efficient Shipping (O)
Yan Zhang, Hualong Yang, Mingjun Ji
University of Shanghai, China

The European ships’ Monitoring, Reporting and Verification (MRV): Pre-Evaluation of a Regional Regulation on Carbon Dioxide Inventory. (O)
Ismael Dagki, Nikitas Nikitas
University of the Aegean, Greece

The Economization and Marketization of Sustainable Ship Breaking (O)
Ioannis N. Lagoudis, Vivek Subramanian, Nursery Alfaridi S. Nasution
Japan Institute for Supply Chain Innovation, Malaysia

Vessel Strategy for Greenfield Oil & Gas Project (E)
Philipp Lauwens1, Thomas Walther2
Hekhuis-Schmidt-Universität, Germany, 2Hamburg School of Business Administration, Denmark, 3Technische Universität Dresden, Dresden, Germany

Environmental Differentiated Port Infrastructure Charging: Current Status and Implications in the Hamburg-Le Havre Range (O)
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Magali Geertz, Michael Dooms, Mychal Langenous
Vrije Universiteit, Brussels, Belgium

Optimal Port Pricing in the Mediterranean Basin (O)
Christodoulos Statovas, Dimitris Tsoukridis, Phoas Panayides
Cyprus University of Technology, Cyprus

A Critique of South Africa’s National Ports Authority’s Revenue Required Pricing Methodology (O)
Sarelle Gasseode, Milhaids Chasomeris
University of KwaZulu-Natal, South Africa

Quality Shipping 2020 and Fair Pricing of Transport (O)
Christian Rahbini, Andreas Hübischer,1 HANS Agentur für Innovation und Nachhaltigkeit im Seeverkehr, Germany, 1SGL, Germany

Session E4
Room 1.05
HKIC (Adolphsplatz 6)

The Human Element in Maritime Transport
Chair: A.K.Y. Ng

An Experiential Study of the Training of South African Officers in the Merchant Navy (O)
Shawn Ruggunan
University of KwaZulu-Natal, South Africa

Enhancing Safety by Introducing a Technical Documentation Standard (O)
Fadi Ayser1, Dennis Schaw
Hamburg School of Business Administration, Germany, 2Friesians Denmark A/S, Germany

Spatial and Non-Spatial Proximity Based Antecedents of Collaborations in Ship-Broking. (O)
Agnieszka Nowinska
Copenhagen Business School, Denmark

The Professionalization of Hong Kong’s Sub-Degree Logistics and Supply Chain Education: A Comparative Study of High Diploma and Associate Degree (O)
Yui Yip Lau1, Adolph K.Y. Ng2, Ka Chai Tam3, Enrico Musa4
1University of Hong Kong, Hong Kong, 2University of Technology, Hong Kong, 3Hong Kong Baptist University, Hong Kong, 4The University of Western Australia, Australia

Transaction Cost Economics and Governance Structure in the Employment Contractual Relations of Brazilian Seafarers (O)
Emilio Lobrigo
Copenhagen Business School, 2Københavns Universitet, University of Applied Sciences, Germany

Bulk Shipping Operations
Chair: R. Shibasaki

Research on Float Planning Method and Application of Bulk Industrial Transport (O)
Quiping Yang
China Waterborne Transport Research and Application Institute, China

Route Choice of Bulk Carrier on a Global Scale and Model Development: Focusing on the Suez Canal (O)
Gyu-Heon Im1, Hyeon Seong Park2, Kwang Hoon Park3
1Hong Kong Polytechnic University, Hong Kong, 2University of Minnesota, Minneapolis, USA, 3Hong Kong Baptist University, Hong Kong

Experimental Study of the Training of South African Officers in the Merchant Navy (O)
Irene K. Ng, Klaas van den Berg, J.P. Le Roux
Cape Town University, South Africa

Environmental Port Charges Reduction Schemes: an Economic Analysis (E)
Michèle Azizian1, Vaibhav Kosmat1
Institute of Logistics, Germany, 2Copenhagen Business School, Denmark

Environmental Differentiated Port Infrastructure Charging: Current Status and Implications in the Hamburg-Le Havre Range (O)
Magali Geertz, Michael Dooms, Mychal Langenous
Vrije Universiteit, Brussels, Belgium

Tackling Uncertainty in Green Pricing Decision-Making: the Case of Port Infrastructure (O)
Magali Geertz, Michael Dooms, Mychal Langenous
Vrije Universiteit, Brussels, Belgium

Optimal Port Pricing in the Mediterranean Basin (O)
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1Hong Kong Polytechnic University, Hong Kong, 2University of Minnesota, Minneapolis, USA, 3Hong Kong Baptist University, Hong Kong

Testing the Relationship between Risk Attitudes and Shipping Freight Markets (E)
Christian Bahlke1, Andreas Hübscher2
1Hamburg School of Business Administration, Germany, 2ISL, Germany

Environmental Port Charges Reduction Schemes: an Economic Analysis (E)
Michèle Azizian1, Vaibhav Kosmat1
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Christian Rahbini, Andreas Hübischer,1 HANS Agentur für Innovation und Nachhaltigkeit im Seeverkehr, Germany, 1SGL, Germany

Session D4
Room 5.03
HKIC (Adolphsplatz 6)

Optimal Speed & Network Configuration in Shipping
Chair: H. Psaraftis

Liner Service Network Design with Transit Deadline and Speed Optimization (O)
Yan Zhang, Hualong Yang, Mingjun Ji
Dalian Maritime University, China

Methodological Framework for Slow-Steaming Operations (O)
Ismael Dagki, Nikitas Nikitas
University of the Aegean, Greece

Contracts for the Shipping Industry: An Option Contracts Model (O)
Alexandra C. G. Palaia1, Rosa C. Gonzalez2, Fernando Alarcón3, Stefán Vázquez4
1Universidad de Guadalajara, Mexico, 2Universidad de Los Andes, Chile, 3Universidad de Chile, Chile, 4Hamburg University, Germany

A Game Theory Competition Analysis of Quadropolistic Liner Container Shipping Market (O)
Murat Aymen, Evangelos Boulougouris, Osman Turan
University of Stuttgart, Germany

Demand Elasticities and Competition in Container Liner Shipping Market (O)
Erena Mirata
Kobe University, Japan
Session B5
HKIC (Adolphsplatz 6)
Chair: R. Adland
Freight Rate Modeling in Bulk Shipping
Re-Examine the Shipping Freight Rate Stationarity (O)
Jaying Wang, Ying Kou
Shanghai Jiao Tong University, Shanghai, China
A Pilot AHP Analysis of Lay-Up Decision Making in the Dry-Bulk Market (O)
Roar Adland, Magnus Skavlan
Norwegian School of Economics (NHH), Norway
A Model for the Impact of Change in Ship Design on the Freight Rate Forecasting (O)
H.A. Thanopoulos, Siri Pettersen, Taner Genc
University of Aarhus, Denmark, Norwegian School of Economics, Denmark, NHH, Norway

Session F5
Room Merkur
Chair: P. Tseng
Commerzsaal
Container Terminal Management and Operations
Room 1.05
HKIC (Adolphsplatz 6)
Chair: S. Segi
Box Dynamics: "Leaders", "Followers" and Transmitting Mechanisms — An Inter-Sectional Analysis (O)
Persa Pafilii, Thomas Vitaussi, Collas Teyez, Michael Bell, Ioannis Tsamarouglou
1University of the Aegean, Greece, 2Ports, Shipping and Freight Supply Chains, Australia, 3University of Sydney, Australia
Track-to-Ship Optimization under the Situation of Containers Arriving Terminal with Short Loading Time (O)
Dongku Chen, Lian Shi, Dalian Maritime University, China
An Agent-Based Approach to Risk and Event Management in a Container Terminal (E)
Lorena Braccetti, Maria Isabel Vega, Cristian Valdes, Arturo Cuencas Pontificia Universidad Catolica del Valparaiso, Chile
A New Hybrid Decision Making Framework for Prioritizing Port Performance Improvement Strategies (O)
Mi-Ha Ha, Zaili Yang, Nan Xue, Hongbo He
1Liverpool John Moores University, United Kingdom, 2Sun Yat-Sen University, China
Improving Container Yard Operation Planning with the Prior Information of Trailer Arrival Date: A Practice at Port of Hakata (O)
Shunsoke Segi, Tamotsu Ninomiya, Hiroshi Kimoto, Kazuo Motono
1Kyoto University, Japan, 2Kagawa Port Terminal Co., Japan, 3Ministry of Land Infrastructure, Transport, Tourism, Japan

Session C5
Room 4.07
HKIC (Adolphsplatz 6)
Chair: C. Sys
Ports and Transport Networks
Free Ports: Towards a Network of Trade Gateways (O)
Alexandre Lavilières, Jean-Paul Rodrigue
1Institut Polytechnique de l’Université de Nantes, France, 2Hamburg University of Applied Sciences, Germany
Chabahar Port Vs Cador Port: A Logistics Performance Comparison (O)
Jafar Sayehgar, Meryem Fekdi
Chabahar Maritime University (CMU), Iran
An Approach to Inclusive Port Development: the Case of Port of Tanjung Carat, South Sumatra, Indonesia (O)
Maurice Jenser, Rikky Afrianto
Netherlands Maritime University, Netherlands
Measuring Service Quality Gaps for the Port of Umm Qasr Using SERVQUAL Method (O)
Safia J., Al-Fayadh, Daniel S.M. Moon, Ayukt Olger World Maritime University, Sweden

Session D5
Room 5.03
HKIC (Adolphsplatz 6)
Chair: F. Parola
Port and Transport Finance
Investing in New Port Capacity from a Shipper and a Shipowner Perspective: the Case of Maasvlakte II (E)
Edwin van Hasselt, Hilde Meersman, Eddy Van de Voorde, Thierry Vandelinden
University of Antwerp, Belgium
Initial Public Offering in Ports: The Determinants of the Long-Term Aftermarket Performance (E)
Gioanni Satta, Theo Notteboom, Francesco Pala, Luca Persico
1University of Genoa, Italy, 2Dalian Maritime University, China
Chabahar Port: A Case Study of Investments and Activities (O)
Jafar Sayehgar, Meysam Fooladi
Chabahar Maritime University, Iran

Session E5
Room 1.05
HKIC (Adolphsplatz 6)
Chair: L. Tavasszy
Commerzsaal
Maritime Transports and Logistics
Room Merkur
Chair: P. Tseng
Commerzsaal
Container Terminal Management and Operations
Room 1.05
HKIC (Adolphsplatz 6)
Chair: S. Segi
Box Dynamics: "Leaders", "Followers" and Transmitting Mechanisms — An Inter-Sectional Analysis (O)
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Shunsoke Segi, Tamotsu Ninomiya, Hiroshi Kimoto, Kazuo Motono
1Kyoto University, Japan, 2Kagawa Port Terminal Co., Japan, 3Ministry of Land Infrastructure, Transport, Tourism, Japan
Round Table “Migration at Sea”
Commerzsaal, Hamburg Chamber of Commerce

Elda Belja, IMO International Maritime Law Institute
Elda Belja read law at the University of Athens, Greece. She obtained a Master’s Degree in International Maritime Law (with distinction) at the IMO International Maritime Law Institute (IMLI). She was awarded the Sasakawa Prize for the Best Performing Nippon Foundation Scholar. In 2008, she joined the IMLI where she lectures in various areas of international maritime law. She has been a visiting lecturer at the International Ocean Institute (IOI) and has acted as an examiner for the Faculty of Laws, U of Malta. She has also participated in several international conferences and workshops. Ms. Belja joined the IMO’s Roster of Experts in 2012. Ms. Belja is a contributor to and a co-editor of the 2nd Volume of The IMLI Manual in International Maritime Law.

Svein Hapnes, UNHCR
Svein J Hapnes is currently the Supply Chain Manager for the challenging UNHCR Greece operations, supporting around 50,000 refugees in over 40 mainland and island locations since Jan 2016. He has previously been on a 5 month deployment as the Regional Supply Chain Coordinator for the Syria Crises based in Jordan in 2012-13. In the UN he has held positions as UNHCR Supply Chain Senior Business Analyst, UNHCR Logistics Emergency Response Coordinator, UNICEF Shipping Manager and UNPROFOR Transport Operations Officer, Sector N-E in the 90ties. Prior to this, he was for almost 20 years serving as an officer in the Norwegian Army, nationally and internationally, as well as holding posts in companies as NSB Gods (Railway) and Nor-Cargo (now Bring Logistics).

Jens Pagotto, MSF
Currently the Head of Mission for Médecins Sans Frontières Search and Rescue mission in the Central Mediterranean. Jens Pagotto is a Humanitarian Practitioner who has been working in conflict and emergencies situations worldwide since 2008, including in major emergencies in Haiti in 2010 and Syria in 2013. Médecins Sans Frontières vessels in the Central Mediterranean rescued over 20,000 in 2015 and a further 7,322 people during their operations from April to June 2016.

Dr. Patrick Verhoeven, ECSA
Patrick Verhoeven is Secretary General of the European Community Shipowners’ Associations (ECSA). Based in Brussels, the organisation represents the national shipowner associations of the EU and Norway. Prior to joining ECSA in August 2013, Patrick served thirteen years as Secretary General of the European Sea Ports Organisation and seven years representing the interests of terminal operators, ship agents and sio companies at EU level. He started his career working for the Antwerp-based ship agent Grisar & Velge. Patrick holds a PhD in applied economics and a bachelor in law from the University of Antwerp. In 2015 he joined the university’s Centre for Maritime and Air Transport Management (C-MAT) as guest lecturer. Patrick lives in Antwerp with his wife and three children.

Dr. Maria Besiou, KLU
Dr. Maria Besiou is Associate Professor of Humanitarian Logistics at Kühne Logistics University. She received her Ph.D. in Mechanical Engineering and Operations Management from Aristotle University of Thessaloniki (AUTH) in Greece. She holds a Diploma in Mechanical Engineering from AUTH. Before joining KLU she worked as a Postdoctoral Research Fellow at the Social Innovation Centre at INSEAD, France.
25 August | 16:00 - 17:40

**Session A6**
Commerzsaal
Hamburg Chamber of Commerce
6th MEL PhD Presentations
Chair: H.E. Haralambides

Presentation of the Finalists of the 6th MEL PhD Prize

**Session B6**
Auditorium
HKIC (Adolphsplatz 6)

**Group 6**
Ports in Latin America
Chair: B. Tovar de la Fe

Mariel Port: Cuba’s Gateway to New Prosperity? (O)
Kerstin Welteing, Hamburg School of Business Administration, Germany

Mexican Ports in View of the Panama Canal Expansion (O)
Carlos Martínez Peyleñacue, Instituto Mexicano del Transporte (IMT), Mexico

Metafrontier Analysis on Productivity for West Coast of South Pacific Terminals (O)
Beatriz Tovar de la Fe, Vicente Chang
Los Palos University, Spain, Supervisory Agency for Investment in Public Transport Infrastructure (OSTTRAN), Peru

Choice of Hong Kong in War of the Two Big Canals (O)
Sung Woo Lee, Soo Yong Shin, Eun Woo Kim
Korea Maritime Institute, Republic of (South) Korea

**Session C6**
Room 4.07
HKIC (Adolphsplatz 6)

Safety and Security Issues in Shipping and Ports
Chair: H.D. Haasis

E-Learning in (Maritime) Supply Chain Security - New Risk Assessment Models and Introductory Empirical Analysis (O)
Michael Wielandt, Kühne Logistics University, Germany

Visibility - A Driver for Supply Chain Resilience (O)
Rainer Müller, Nils Meyer-Larsen & Laura Maier, Institute of Shipping Economics and Logistics, Germany

A Logit Model of MLC Vessel Detention Probability (O)
Helan Thanopoulos, Io Retso, Athi Alizadet
University of the Aegean, Greece, City University of London, United Kingdom

The Efficiency Analysis of Major Cruise Lines (E)
Young-Tae Chang, Soohyung Lee, Hyosoo Park
Maritime Centre, Japan

The Efficiency Analysis of Major Cruise Lines (E)
Sung Woo Lee, Soo Yong Shin, Eun Woo Kim
Korea Maritime Institute, Republic of (South) Korea

**Session D6**
room 5.03
HKIC (Adolphsplatz 6)

Short-Sea Shipping
Chair: A.C. McKinnon

Bilateral Dry Cargo Trade in Mediterranean, Black Sea and Continental Europe: A Short Sea Shipping Approach (O)
Ismail Bilge Cetin, Eren Firat Mogul, Engin Hacak
"Ozkay Kayıp" University, Turkey, Intermodal Shipping, R&D and Consultancy Corporation, TUR, "Rondrum Orimedi Orileyi University, Turkey, Port Challenges and the Evolution of Feeder Systems: The Case of Norway (O)
Morten Sundbye, Harald Hjirk, Jason Mansor
"Molde University College, Norway, Edinburgh Napier University, United Kingdom

A Multi-Criteria Analysis Method to Measure Islands’ Connectivity (O)
Maria Lekakou, George Remoundos
University of the Aegean, Greece

Slow Steaming and Competitiveness of European Short Sea RORO Shipping (O)
Zeeshan Raza, Richard Bergyveldt, Johan Wisselius, Christian Finnsgard, Joakim Kalanathi
"University of Gothenburg Sweden, "SSPA Sweden, Sweden, "Swedish Maritime Administration, Sweden

**Session E6**
Room 1.05
HKIC (Adolphsplatz 6)

Liner Shipping Operations
Chair: A. Tel

Container Ocean-Transportation System Design with the Factors of Demand Fluctuation and Choice Inertia of Shippers (N)
Kang Chen, Dalian Maritime University, China

Innovative Solutions for Enhancing Customer Value in Liner Shipping (O)
Jiaojiao An, Lian Rolling, Tiansian Zhang
Nanyang Technological University, Singapore

New Distribution-Free Models for Liner Fleet Deployment (E)
Hüseyin Gençer
French National Centre for Scientific Research, France, University of Genoa, Italy, "Waseda Gakushuin University, Japan, "Newcastle University, United Kingdom

**Session F6**
Room Merkur
Hamburg Chamber of Commerce

Innovation in Shipping and Ports
Chair: T. Vaneilander

Digital Innovation in the Port Sector: Objectives, Barriers and Facilitators (E)
Valentin Carlan, Christa Syri; Thierry Vaneilander, Athina Roumboudou
University of Antwerp, Belgium, University of the Aegean, Greece

The Value of a Centimetre: Improving Shipping Efficiencies Through Underkeel Clearance Management Technology (N)
Brendan Curtin
OMC International, Abbotford, Australia

Innovation along the Maritime Supply Chain: Aligning Strategies with Outcomes. (N)
Michele Alcindor; Christa Syri;
"Kühne Logistics University, Germany, University of Antwerp, Belgium

Take-up of Innovative Energy Efficiency Technologies in Maritime Transport (O)
Nikhubabas Rahmatullah
UCL Energy Institute, United Kingdom

Exploring the Relationship Marketing Strategy of Ports (O)
Aylin Calikari, Soner Eruer
"Izmir University, Turkey, "Ozkay Kayıp" University, Turkey

**Session G6**
Room 4.07
HKIC (Adolphsplatz 6)

Cruise Shipping and Tourism
Chair: A. Pallis

Targeting the Young Cruisers Market: Motivations and Behavioural Intentions (O)
Giovanni Satta, Luca Persico, Francesco Parola, Lara Penno, Enrico Musso
University of Genoa, Italy, CIEI - Italian Centre of Excellence for Integrated Logistics, Italy

A System Approach for Cruise Port Attractiveness: an Evaluation of Turkish Cruise Ports (O)
Hatice Akgul, Fevis Bitiktar, Ersin Firat Akgul, Engin Hacak
"Ozkay Kayıp" University, Turkey, "Morden Technipl, Turkey, "Bandirma Orileyi Orileyi University, Turkey, "University of Gothenburg Sweden, "SSPA Sweden, Sweden, "Swedish Maritime Administration, Sweden

**Session H6**
Room Hansa
Hamburg Chamber of Commerce

Cruise Shipping and Tourism
Chair: A. Pallis

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**Session I6**
Room 1.05
HKIC (Adolphsplatz 6)

Cruise Shipping and Tourism
Chair: A. Pallis

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**Session J6**
Room Merkur
Hamburg Chamber of Commerce

Cruise Shipping and Tourism
Chair: A. Pallis

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Keynote Speaker Peter Lorange is Honorary President of the Lorange Institute of Business Zurich and he was the owner of this institution from 2009 until 2015. Mr. Lorange was president of the International Institute for Management Development, or IMD, from July 1, 1993 to April 1, 2008, and until July 1, 2009, he was Professor of Strategy at IMD and held the Kristian Gerhard Jebsen Chair of International Shipping. He was formerly president of the Norwegian School of Management in Oslo.

Mr. Lorange was affiliated with the Wharton School, University of Pennsylvania for more than a decade in various assignments, including director for the Joseph H. Lauder Institute of Management and International Studies and The William H. Wurster Center for International Management Studies, as well as The William H. Wurster Professor of Multinational Management. He has also taught at the Sloan School of Management (M.I.T.), IMEDE (now IMD), and the Stockholm School of Economics.

Mr. Lorange serves on the board of directors of several corporations including Marsoft International A/S, Preferred Global Health and Global Praxis. He received his undergraduate education from the Norwegian School of Economics and Business, was awarded a Master of Arts degree in Operations Management from Yale University and his Doctor of Business Administration degree from Harvard University.

Building of KLU Kühne Logistics University

Hamburg - Planten un Blomen
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Prize Awards during IAME 2016 Hamburg

The Palgrave-McMillan Best Conference Paper Award
The Best Conference Paper Award is sponsored by Palgrave-McMillan and is awarded to the paper that has received the highest score in the paper review process. The award is accompanied by a financial reward of £ 250.

The KLU Young Researcher Best Paper Award
The Young Researcher Best Paper Award is sponsored by the Department of Logistics of the Kühne Logistics University and is awarded to the paper with the highest review score obtained in the review process and whose main author is not older than 35. The award is a symbol of the effort that the KLU places on fostering emerging talents in maritime logistics. The award is accompanied by a financial reward of € 400.

Martin Sgut Award - best paper on Latin America and the Caribbean
The Martin Sgut Award is given to the best paper on maritime transport, ports and logistics on Latin America and the Caribbean, to commemorate the late Capt. Martin Sgut, who was a president of the Mercosur association of ports (MERCOPORT) and worked in various capacities with international agencies such as the United Nations Economic Commission for Latin America and the Caribbean (UNECLAC), the Organisation of American States (OAS), the Interamerican Development Bank (IDB), the World Bank, GTZ, the United Nations Commission for Trade and Development (UNCTAD) and the International Labour Organization (ILO) as well as the private sector. The prize consists of a mate, the traditional South-American drink.

Journals

IAME Official Journals
- Maritime Economics & Logistics
- Maritime Policy & Management

Associated Journals and Special Issues
A selection of papers presented at IAME will be considered for publication in selected volumes and special issues in the following journals:

Asian Journal of Shipping and Logistics
International Journal of Shipping and Transport Logistics
International Journal of Transport Economics
The German Maritime Arbitration Association – short: GMAA – offers a tailor-made out-of-court procedure for the worldwide maritime industry to settle shipping disputes both in German and English. The GMAA is qualified, acknowledged, legally binding, unbiased, fast, efficient and works at reasonable and transparent costs.

The GMAA wishes all IAME members a successful conference and a pleasant stay in Hamburg.

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20457 Hamburg

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Rathausmarkt / line 3,4,5,6

Emergency Numbers
Ina Rosentreter (HSBA)
+49 40 36138-748
+49 176 53869886

Kathrin Storm (KLU)
+49 40 328707140
+49 152 542 111 70
2016 Annual Conference of the International Association of Maritime Economists, 23 - 26 August 2016, Hamburg, Germany

Responsible:

HSBA Hamburg School of Business Administration | Adolphsplatz 1 | 20457 Hamburg | info@hsba.de

Kühne Logistics University - KLU | Grosser Grasbrook 17 | 20457 Hamburg | info@the-klu.org