

Accommodation

- Mercure Hotel Duisburg City
Landfermannstr. 20
47051 Duisburg/Germany
Tel. +49 (0) 203 3000 3 666
E-Mail: h0743-re1@accor.com
- Hotel Friederichs
Neudorfer Str. 33 – 35
47057 Duisburg/Germany
Tel. +49 (0) 203 31 86 50
E-Mail: info@hotel-friederichs.de

From Mercure Hotel and Hotel Friedrichs you can reach the venue within 5 minutes by foot.

Contact

Please register (25 May to 2 October 2020), stating the number of persons and their institution. Late registrations may not be accepted.

<https://www.aiss-conf.com>

(website will be online on 25 May 2020)

Claudia O'Donoghue: claudia.odonoghue@uni-due.de
Fon: +49 (0) 203 379 4596

Important Dates for Participants

| | |
|----------------|--|
| Registration | 25 th May – 2 nd October |
| Program Output | 31 st August 2020 |
| Conference | 23 rd October 2020 |

Important Dates for Authors

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| Abstract Submission | 31 st August 2020 (Authors who have already submitted an abstract, are kindly requested to refrain from making a re-submission.) |
| Author Notification of Acceptance | 21 st August 2020 |
| Author registration via ConfTool on https://www.aiss-conf.com | |
| Program Output | 31 st August 2020 |
| Conference | 23 rd October 2020 |

Workshop Fees

180€ on-site / 50€ by video conference

Venue of the Workshop

Niederrheinische Industrie- und Handelskammer
(Chambers of Commerce) Duisburg-Wesel-Kleve
Mercatorstrasse 22-24, 47051 Duisburg/Germany,
<https://www.ihk-niederrhein.de>

Program

The workshop welcomes contributions in the field of autonomous ship control and related subjects, e.g., on-board assistance systems, sensor technology, regulations, test areas, etc.

Autonomous Inland and Short Sea Shipping Conference

AISS2020

23rd of October 2020

Program



Competence Centre for Autonomous Inland and Short Sea Shipping

Supported by
Chambers of Commerce in the Ruhr Region



The Association
of German Engineers



Development Centre for Ship Technology and Transport Systems (DST)

Oststrasse 77
47057 Duisburg/Germany
Fon +49 (0) 203 99369 0
<https://www.dst-org.de>

University of Duisburg-Essen

Faculty of Engineering
Institute of Ship Technology, Ocean Engineering and
Transport Systems &
Chair of Mechatronics
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RWTH Aachen University

Institute of Automatic Control
Campus-Boulevard 30
52074 Aachen/Germany
Fon: +49 (0) 241-80-27500
<https://www.irt.rwth-aachen.de>

Program

- 08:00 Registration
- 08:30 **Opening:** O. el Moctar, University of Duisburg-Essen, M. Simons, Chambers of Commerce Ruhr Region
A. Jacobs-Schleithoff: Federal Ministry of Economic Affairs and Energy
N. Braunroth, Federal Ministry of Transport and Digital Infrastructure
- 08:50 **C. Noss¹, T. Wagner², N. Braunroth³, M. Schröder¹: An Intelligent Lockage Management System for Inland Waterways – Development on the Basis of AIS Data and Ship Traffic Simulations.** ¹Federal Waterways Engineering and Research Institute, ²Federal Waterways and Shipping Administration, ³Federal Ministry of Transport and Digital Infrastructure
- 09:10 P. Haikkola: **The Benefits in Autonomous Maritime Transport.** ONE SEA/DIMECC Ltd.
- 09:30 **A. Lutz¹, A. Lachmeyer¹, B. Friedhoff², F. Roettig²: NOVIMAR Vessel Train Control System – Tank Tests and First Trial.** ¹Argonics GmbH, ²Development Centre for Ship Technology and Transport Systems
- 09:50 **Y. Pang, V. Garofano, R. Negenborn: Recent Research Directions for Autonomous Shipping.** Delft University of Technology
- 10:10 **Coffee Break**
- 10:40 M. Wirsing, A. Dammann, **R. Raulefs: Correction Data Transmission by VDE Considering AIS Reception on Inland Waterways.** German Aerospace Center (DLR)
- 11:00 **M. Nitsch, M. Kosch, R. Zweigel, D. Abel: A Tightly Coupled Navigation Filter for the Control of an Automatic River Ferry.** RWTH Aachen University
- 11:20 **J. Mentjes¹, H. Wiards¹, S. Feuerstack¹, A. Hahn²: SmartKai – An Assistant System to Prevent Damage to Ships and Port Infrastructure.** ¹OFFIS Institute for Information Technology, ²University of Oldenburg

- 11:40 M. Sandler: **Applications of Laser-Scanners as Close-Range Sensors in Inland Navigation.** In - innovative navigation GmbH
- 12:00 **Lunch**
- 13:30 **R. Ziebold¹, A. Heßelbarth¹, C. Lass¹, J. Zimmermann², J. Alberding²: Precise GNSS Based Positioning for Automated Inland Vessel Navigation.** ¹DLR, ²Alberding GmbH
- 13:50 **C. Schyr¹, F. Klein²: VR-Based Methods for the Development and Deployment of Automated Mobility Systems in an Urban Environment.** ¹AVL Germany, ²HHVISION
- 14:10 **J. Alberding¹, J. Zimmermann¹, M. Seifert², K. Lichtfuß³, M. Fiedler⁴, R. Ziebold⁵, T. Holzki⁶: Development of an Information Platform to Increase the Efficiency of Transport Processes on the Spree-Oder-Wasserstraße.** ¹Alberding GmbH, ²BÖB, ³BAHALA, ⁴LUTRA, ⁵DLR, ⁶TU Berlin
- 14:30 **Coffee Break**
- 15:00 H. Bußhoff: **Towards Autonomy – Navigating a Meandering Route.** Wärtsilä SAM Electronics
- 15:20 M. Suri: **Autonomous Ships and the Proximate Cause Conundrum – A Maritime and Insurance Law Tango.** Jindal Global Law School
- 15:40 F. Bakhshande¹, W. Boschmann¹, L. Dahlke², R. Henn², J. Höpken², M. Jarofka¹, F. Kracht¹, N. Maas¹, J. Oberhagemann², D. Schramm¹, P. Sieberg¹, **D. Söffker¹, M. Spiller¹: The AutoBin Project – Key Concepts, Status and Intended Outcomes.** ¹University of Duisburg-Essen, ²Development Centre for Ship Technology and Transport Systems (DST)
- 16:00 **F. Kracht¹, M. Jarofka¹, N. Maas¹, J. Hoepken², L. Dahlke², J. Oberhagemann², R. Henn², D. Schramm¹: Research and Control Center for Autonomous Inland Vessels – VeLABi.** ¹University of Duisburg-Essen, ²DST
- 16:20 **Closing:** D. Schramm, University of Duisburg-Essen
- 16:30 Visit of VeLABi

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