

## Accommodation

For the night of 16 May 2019, a limited number of rooms has been reserved at the following hotels (keyword AISS2019):

- Katholische Akademie DIE WOLFSBURG (Conference)  
Falkenweg 6  
45478 Mülheim an der Ruhr  
Fon: +49 (0) 208 999190  
E-Mail: die.wolfsburg@bistum-essen.de
- 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 Friederichs you can reach the venue "DIE WOLFSBURG" within 20 minutes by tram or 10 minutes by car.

## Contact

Please register (1 February to 15 April 2019), stating the number of persons and their institution. Late registrations may not be accepted.

<https://www.aiss2019.com>

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

### 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  
Bismarckstrasse 69  
47057 Duisburg/Germany  
Fon +49 (0) 203 379 4596  
<https://www.uni-due.de/ismt>

### 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>

## Important Dates for Participants

25<sup>th</sup> March 2019 Program Output

1<sup>st</sup> February - 15<sup>th</sup> April Registration

17<sup>th</sup> May 2019 Conference

## Important Dates for Authors

Author registration via ConfTool on <https://www.aiss2019.com>

25<sup>th</sup> March 2019 Program Output

17<sup>th</sup> May 2019 Conference

## Workshop Fees

180 €

## Venue of the Workshop

**Katholische Akademie DIE WOLFSBURG**  
Falkenweg 6, 45478 Mülheim an der Ruhr/Germany,  
[www.die-wolfsburg.de](http://www.die-wolfsburg.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

## AISS2019

## 17<sup>th</sup> of May 2019

## Program



## Competence Centre for Autonomous Inland and Short Sea Shipping

Supported by  
Chambers of Commerce in the Ruhr Region



VDI – The Association of German Engineers



## Program

08:00 Registration

08:30 **Opening:** O. el Moctar/D. Schramm, University of Duisburg-Essen, NN: Ministry of transport NRW

08:45 D. Schramm: **Automotive autonomous and assisted driving - Status and Challenges.**  
University of Duisburg-Essen

09:10 A. Lutz: **Trackpilot: First step toward autonomous sailing – case study and recent developments,** Argonics

09:35 M. Kosch, D. Abel, R. Zweigel: **Full-automatic river ferry: A concept overview,** RWTH Aachen University

10:00 R. Ziebold<sup>1</sup>, A. Heßelbarth<sup>1</sup>, R. Raulefs<sup>1</sup>, M. Wirsing<sup>1</sup>, M. Sandler<sup>2</sup>, A. Lutz<sup>3</sup>, A. Lachmayer<sup>3</sup>, M. Hoppe<sup>4</sup>, T. Dettmann<sup>5</sup>, J. Zimmermann<sup>6</sup>, J. Alberding<sup>7</sup>, M. Uhlemann<sup>7</sup>: **Towards an automatic entering of inland waterway locks,** <sup>1</sup>DLR, <sup>2</sup>Innovative Navigation, Argonics, <sup>4</sup>WSV Verkehrstechnik, <sup>5</sup>BAW, <sup>6</sup>Weatherdock <sup>7</sup>Alberding

10:25 **Coffee Break**

10:55 S. Helling, M. Lutz, T. Meurer: **Autonomous docking of marine vessels in constrained environments,** Kiel University

11:20 C. Schyr: **Validation of highly automated systems for inland vessels in a virtual test field,** AVL Germany

11:45 S. Feuerstack<sup>1</sup>, A. Hahn<sup>2</sup>: **Validation and verification of assistant systems and highly automated ships,** <sup>1</sup>OFFIS Institute for Information Technology, <sup>2</sup>University of Oldenburg

12:10 G. Chillcce, O. el Moctar: **Mathematical models for manoeuvring of inland vessels,** University of Duisburg-Essen

12:35 **Lunch**

13:30 P. Potgraven: **Approach of the ministry of transport, infrastructure and watermanagement for smart shipping in the Netherlands,** Ministry of Infrastructure and Watermanagement

13:55 A. Colling: **The vessel train – Platooning on short seas and inland waterways,** TU Delft

14:20 J. Merenluoto: **One sea – Steps towards autonomous maritime transport systems,** DIMECC

14:45 C. Kooij: **Towards unmanned cargo ships: The effects of automating navigational tasks on crew levels,** TU Delft

15:10 **Coffee Break**

15:30 S. Feldmann: **Generative design of computer generated imagery scenarios for advanced training of neutral network algorithms,** Hochschule Aalen

15:50 R. Henn, **Impact of automated navigation on inland waterway transport.** Development Centre for Ship technology and Transport Systems, Duisburg

16:15 O. Hamann, A. Kortenjann : **Competence Centre for Autonomous Inland and Short Sea Shipping Rhein-Ruhr:** Ruhr IHK

16:25 **Closing:** D. Abel, RWTH Aachen University  
O. el Moctar, University of Duisburg-Essen

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