Call for Workshop Proposals

26th IEEE International Conference on Intelligent Transportation Systems

The 26th edition of the IEEE International Conference on Intelligent Transportation Systems (ITSC 2023) is the annual flagship conference sponsored by the IEEE Intelligent Transportation Systems Society (ITSS). This event hosts an attractive agenda of technical contributions, keynote presentations, tutorials, special sessions, and workshops on topics related to the field of Intelligent Transportation Systems (ITS). The conference aims to gather researchers and practitioners working in this field towards sharing, discussing, and opening new paths in the theory, analysis, simulation, data-based modeling, experimentation, deployment, and case studies embracing transportation and mobility at their core. In particular, ITSC 2023 builds upon its motto to invite and encourage prospective authors to present results, findings, perspectives, and developments related to the implementation and deployment of ITS applications that consider human interaction at the core of their design.

ITSC 2023 solicits proposals for half-day and full-day workshops covering topics relevant to the field of intelligent transportation systems and its applications. Interested organizers are invited to submit their tutorial proposals in the topic areas listed in the Call for Papers of the conference (https://2023.ieee-itsc.org/call-for-paper/call-for-papers/).

The proposal for a workshop should include title; contents of the workshop; a list of topics of interest; website; details of the organizers; a list of potential contributors with their affiliations, contact e-mails, and abstracts; information about the target audience and expected attendance; invited speakers; and materials needed to implement the workshop. Proposals must be submitted electronically by following the instructions available in the conference website (https://2023.ieee-itsc.org/). The deadline is March 1st, 2023.

**Disclaimer 1:** any workshop proposal that is incomplete and/or is not submitted by following this form will not be evaluated for its inclusion in the program of the conference.

**Disclaimer 2:** The proposal should describe how the workshop will be organized to encourage an active interaction between presenters and attendance.

**Disclaimer 3:** Attendance at workshops will be subject to an additional fee, in addition to the Conference registration fee. Thus, all workshop session participants (including organizers and presenters) will be required to pay a workshop attendance fee due to the venue hire cost and catering costs.

**Disclaimer 4:** unless otherwise imposed by organizational constraints, workshops will be held on September 24th, 2023.

Further enquiries can be forwarded to: contact@2023.ieee-itsc.org
Workshop Proposal

• Title:

2. Workshop on Intelligent and Automated Waterway Transportation

• Contents:

  o Motivation and objectives.
  o Relevance to the ITS community.
  o Topics of interest.
  o Dedicated website.
  o Format: Full day/half day/other (provide details)

The workshop aims at the promotion of technical and scientific exchange between industry, academia and authorities in the fields of autonomous waterway transportation, smart waterborne logistics and related subjects. Relevant topics include but are not limited to the following:

  o Advanced assistance systems
  o Automated, autonomous and remotely controlled vessels
  o Modeling and simulation
  o Navigation and localization
  o Control approaches
  o Automation of cargo handling from ships

The desired format will be a full-day workshop. It will be opened by a keynote speech and a panel discussion is planned for the end, which will also encourage the exchange of speakers with the audience.

The workshop homepage will be published as a section on the homepage https://www.autobin.de/en/.

• Organizers (names, affiliations, emails, and short bio):

Prof. Dr.-Ing. Bettar el Moctar, Chair of Ship Technology and Ocean Engineering, University of Duisburg-Essen, ould.el-moctar@uni-due.de

Bettar el Moctar studied Naval Architecture and Ocean Engineering at the University of Hamburg/Germany. He graduated in 1997 and has since then worked as a research assistant in different departments of the University of Technology Hamburg, where he has specialized in computational fluid dynamics. He completed his doctorate at the University of Technology Hamburg with a dissertation in the ship maneuvering. In 2000 he joined the Hamburg Ship Model Basin (HSVA) and worked as a research engineer. He was head of
department of fluid dynamics at Germanischer Lloyd/Germany from 2002 to 2008 and
global head of research at DNV GL advisory services from 2013 to 2016. Since 2008 he has
been working at the University Duisburg-Essen as a full professor for ship technology and
Ocean Engineering and Director of the shallow water model basin DST/Germany. He is
editor and co-editor for several international journals and has been member of different
international committees. His publications cover various aspects of hydrodynamics and
Fluid-Structure-Interaction. The focus of his research is the development of numerical
and experimental methods for seakeeping, manoeuvring, hydroelasticity, cavitation,
slamming and sloshing, and propulsion in waves.

Prof. Dr.-Ing. Dirk Söffker, Chair of Dynamics and Control, University of Duisburg-Essen,
soeffker@uni-due.de

Dirk Söffker (Member, IEEE) received the Dr.-Ing. degree in mechanical engineering and
the Habilitation degree in automatic control/safety engineering from the University of
Wuppertal, Wuppertal, Germany, in 1995 and 2001, respectively. Since 2001, he has been the
Chair of Dynamics and Control with the University of Duisburg-Essen, Germany. His
current research interests include elastic mechanical structures, modern methods of
control theory, human interaction with safe technical systems, safety and reliability
control engineering of technical systems, and cognitive technical systems.

Prof. Dr.-Ing. Dr. h.c. Dieter Schramm, Chair of Mechatronics, University of Duisburg-
Essen, dieter.schramm@uni-due.de

Prof. Dr.-Ing. Dr. h.c. Dieter Schramm heads the Chair of Mechatronics at University of
Duisburg-Essen since 2004. Before that, he worked in leading positions at Bosch GmbH
and Tyco Electronics Ltd. In addition to his university position, he is director of Mercator
Science & Education Ltd. in Kuala Lumpur, co-founder of Automotive Executive Education
GmbH (AEE), Duisburg, and member resp. chairman of the advisory boards of university-
related research institutes. In 2015, he was awarded an honorary doctorate by the
University of Miskolc.
His research focuses on manipulators, electromobility, vehicle dynamics, driver
assistance and automated driving of motor vehicles and ships.

Dr.-Ing. Frédéric Etienne Kracht, Chair of Mechatronics, University of Duisburg-Essen,
frederic.kracht@uni-due.de

Frédéric Kracht is a postdoctoral researcher and research group leader at the Chair of
Mechatronics at the University of Duisburg-Essen. He completed his master's and doctoral
degrees both with distinction and received a scholarship from the German Study
Foundation. His doctorate was awarded the Innovation Prize 2020 of the Sparkasse am
Niederrhein and as outstanding doctorate in the field of engineering at the University of
Duisburg-Essen in the context of the dies academicus 2021. His research work deals with
the development of vehicle suspension models with elastic behavior for real-time
applications. Furthermore, he leads various projects in the field of inland navigation and
vehicle automation. At the University of Duisburg-Essen, he supervises and leads various
courses and has co-developed a successful executive master program at the university.
In addition to his employment at the university, he is managing director, co-founder and
partner of several companies in the field of university education, including digital
examination methods.
Philipp M. Sieberg is a researcher and lecturer at the Chair of Mechatronics of the University of Duisburg-Essen, Germany, and Managing Director of Schotte Automotive GmbH & Co. KG. His research interests are primarily in the area of applied artificial intelligence, especially for intelligent transportation systems. He is a member of the Executive Committee of the IEEE Germany and the IEEE ITSS German Chapter.

• Intended audience and expected attendance for the workshop (including a clear statement how interaction between presenters and attendance will be fostered):

The intended target groups of the workshop are members of industry, research but also public authorities in the fields of autonomous shipping, intelligent water-based logistics and related topics. This includes in particular experts for HMI, as especially in assistance systems the interaction and above all the handover situations have to be taken into account.

In addition to the standard exchange between speakers and participants, we want to use the breaks creatively and for networking. One planned format is business speed dating. A panel discussion is also planned at the end, where the results and the exchange between speakers and participants will be deepened.

We expect about 25 participants.

• Invited speakers (if any):

Proposed keynote speakers are

- Prof. Dr.-Ing. Torsten Jeinsch, Chair for Control Engineering, University of Rostock, torsten.jeinsch@uni-rostock.de

- Dr. Alexander Lutz, argonics GmbH, alexander.lutz@argonics.de

• Materials and equipment needed for the workshop:

Technical equipment and enough space for the presentations and the panel discussion are needed.

• Contact details of the proposers (email, postal address, etc):

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General Manager

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