

# Call for Papers



# ICMIM

## International Conference on Microwaves for Intelligent Mobility

April, 15 – 17, 2024, Boppard, Germany

The Fraunhofer Institute for High Frequency Physics and Radar Techniques (FHR) and the Technical University Ilmenau present the 7<sup>th</sup> IEEE MTT International Conference on Microwaves for Intelligent Mobility.

The conference will be held in Boppard, Germany, from the 16<sup>th</sup> to 17<sup>th</sup> April 2024.

### About the conference

Intelligent mobility on road, in air, on sea or on rail is a trending topic which is covered by the ICMIM since 2015. Key enabling technologies including hardware components, circuits and systems up to terahertz range as well as signal processing techniques and interference issues are addressed by the conference. Potential applications include automation with radar and other sensing techniques, navigation and localization, mobile communications, driver assistance, and over-the-air testing.

The conference will offer keynotes, invited and regular oral presentations, and interactive poster contributions.

### Scope of the conference

ICMIM covers topics including but not limited to

- Automotive radar systems, modulation and waveforms
- Microwave systems, modules, components, MMIC, and packaging
- Frontends and frontend modules
- Metasurfaces and Reconfigurable Intelligent Surfaces (RIS)

- Design and testing of antennas, arrays, MIMO, and phased array systems
- Wave propagation, channel measurements, and channel modeling
- Analogue RF and radar signal processing, sensor data fusion
- Interference, coexistence issues and spectrum sharing
- Machine learning for RF sensors systems
- 140 GHz and beyond

in these and related fields of applications:

- Intelligent transportation systems and other industrial applications
- Autonomous vehicles at land, air, and sea
- Automotive radar
- Mobile communications (e.g., ITS-G5/DSRC, C-V2X, 5G, 6G)
- Joint communication and sensing
- Sensing and imaging techniques and systems (passive, active)
- Wireless localization, navigation, tracking and sensor networks
- Environmental detection and sensing
- System measurements, performance evaluation, test and validation



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 **Fraunhofer**  
FHR

 **TECHNISCHE UNIVERSITÄT  
ILMENAU**

[www.icmim2024.com/](http://www.icmim2024.com/)

 **IEEE**

**VDE** ITG

## Paper submission

ICMIM invites submission of original full papers on all topics related to the scope of the conference. Paper submission instructions are provided on the internet. Only electronic submissions in pdf format will be accepted for review. Authors should indicate their preference for oral or poster presentation. Submissions undergo thorough review and will be evaluated in terms of novelty, practical relevance, originality, interest to the community, and clarity. Measured data should be provided to verify numerical or analytical results. All accepted papers will be published in IEEE Xplore.

**Selected contributions may be eligible for publication of extended versions in Special Issues of the IEEE Transactions on Microwave Theory and Techniques (T-MTT) or IEEE Transactions on Intelligent Vehicles (T-IV).**

## Chairs

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**T. Dallmann**, TU Ilmenau

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Organization

**T. Franke**, VDE Conference Service

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## Organization support

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## Organized by

### VDE

Association for Electrical, Electronic & Information Technologies

VDE is one of the largest technical and scientific associations in Europe with more than 32 000 members.

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## Important dates

**Paper submission deadline**..... December 3<sup>rd</sup>, 2023

**Extended submission deadline** ..... **December 21<sup>st</sup>, 2023**

**Notification of acceptance**..... February 26<sup>th</sup>, 2024

**Conference date**..... April 16<sup>th</sup> -17<sup>th</sup>, 2024

[www.icmim2024.com/](http://www.icmim2024.com/)

