

31st Annual Symposium on Vehicle Displays & Interfaces September 10-11, 2024, Huntington Place, Detroit, MI www.vehicledisplay.org

### **CALL FOR PAPERS**

The Metro-Detroit Chapter of the Society for Information Display sponsors this annual technical symposium to support automotive displays and interfaces development by bringing together both technical and business professionals working in the relevant areas from academia and industry. In addition to display-related technologies in the fields of electronic engineering, vehicle system and software, physics, optics & photonics, manufacturing engineering, human factors, and human-machine Interface (HMI), the symposium addresses display technology's role in the evolution toward electric vehicles (EVs) and autonomous vehicles (AVs).

## Contributed papers are solicited in the following areas:

Market trends

Trends in automotive displays, interfaces, and applications

Customer acceptance of and feedback on different display and interface technologies

Regulations and trends related to in-vehicle interactions

• Displays, lighting/signaling technologies and system solutions

Display technologies and components (LCD, OLED, microLED, projection displays, EL, etc.)

Lighting/signaling technologies and components

Head-up displays, augmented reality, and mixed reality systems

Human-machine interface and human factors

Display system legibility and visual performance

Driver performance enhancement

Passenger experience enhancement

Touchscreen, haptic, and acoustic technologies

HMI tools and methods (software development) and metrology for multi-modal (MM) HMI

Driver-assist features (navigation, ADAS, collision warning, night vision) toward autonomous drive

Tools and techniques for measuring HMI efficacy.

• Design and metrology of vehicular display systems, lighting, touch, and HMI

Optical, mechanical, electrical, and thermal performance enhancement

Modeling and simulation

Metrology and testing

Electrical and software interfaces

• Advanced technologies for displays, touchscreens, sensors, and processors.

Sunlight readable technologies

Flexible and stretchable substrates

Transparent displays

Low power consumption

Nanomaterials and nanotechnology

Novel optical films and coatings for projection displays and stray light management

Novel input devices

Electronic mirrors

New: Artificial Intelligence (AI) in vehicle displays and interfaces applications

Generative AI

Digital CX

Monitoring and accident prevention

Vehicle personalization

In-car assistance

Machine learning

Computer vision

Connected car

- A limited number of student travel grants will be awarded to student speakers (must be requested when submitting the abstract)
- · A best paper will be selected by the VDI planning committee and awarded during the symposium

All interested authors are invited to submit abstracts for presentations, particularly in the areas noted above. The deadline for abstracts is June 3, 2024. Authors will be notified in late June 2024. Authors of accepted papers are expected to submit a complete paper for inclusion in the Conference Digest that will be distributed to all attendees at the symposium. The deadline for receipt of papers is July 22, 2024. Authors are expected to present at the symposium.

# **CLICK HERE TO SUBMIT A ONE-PAGE ABSTRACT**

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