Vehicle Displays and Interfaces

SID Metro-Detroit Chapter

**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.

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