

Important Dates

February 01, 2023:
paper submission deadline
March 30, 2023:
notification of acceptance
April 22, 2023:
final paper submission
June 4, 2023:
workshop date

Refer to the IV2023 workshop webpage (<https://2023.ieee-iv.org/workshops/>) for more information.

Organizers

Bowen Weng
Transportation
Research Center Inc. on
assignment to NHTSA, U.S. DoT

Shuo Feng
Tsinghua University

Henry Liu
University of Michigan,
Ann Arbor

Official Workshop Website



CALL FOR PAPERS



The 2nd Workshop on Safety Testing and Validation of Connected and Automated Vehicles

The 2nd workshop on safety testing and validation of connected and automated vehicles is held in Anchorage, Alaska on June 4th, 2023, as part of the IEEE Intelligent Vehicle Symposium (IV) 2023. Authors are invited to submit original manuscripts to this workshop. Submitted papers shall not exceed six pages (two additional pages allowed with a fee) as a PDF file in IEEE two column format. All presented papers will be published by the IEEE and the conference proceedings will be submitted to the IEEE Xplore digital library, as long they follow the same review process of IEEE IV 2023, so that each paper will undergo a peer-reviewing process by at least two members of the International Program Committee. Contributions will be reviewed according to relevance, originality and novel ideas, technical soundness, and quality of presentation.

Subject Areas

The workshop welcomes submissions related to the state-of-the-art theories, methods, algorithms, metrics, datasets, simulations, and field implementation of safety performance testing and validation of CAVs, and identifies challenges as well as research needs, aiming to encourage cross-disciplinary cooperation and facilitate the development and deployment of CAVs. The main topics of interest are listed below:

- Methodological frameworks for safety testing and validation
- Formal methods and run-time verification
- Advanced data engines for large-scale, high-resolution, and rich-context data collection
- Naturalistic driving environment modeling with statistical realism, testing scenario generation for comprehensive behavior competency evaluation, testing environment generation for trip-level safety performance evaluation
- Adversarial testing and validation frameworks, adversarial attacks, and falsification of CAV sub-modules (e.g., perception, decision-making, communication, and control)
- Field implementation, simulation, and multi-fidelity (sim-to-real) frameworks for safety testing and validation