

Call for Reviewers

The [SAE International Journal of Connected and Automated Vehicles](#) is accepting applications for the position of reviewer for the following topics:

Technologies

- Active perception architectures and implementations (radar, vision, lidar) for CAVs
- Sensors, sensor fusion (infrastructure and vehicle-based) for CAVs
- Vehicle design, analysis, and control enhancements for CAVs
- Electrification/vehicle electronics architectures and implementations for CAVs
- Communication architectures and implementations (V2x) for CAVs
- Real-time computational paradigms and architectures (AI, model-based) for CAVs
- Novel actuation paradigms (structural control, reconfigurable systems) for CAVs

Human-in-the-loop Element

- Active vehicle safety architectures (occupant, pedestrian)
- Human machine interaction design (driver- and controller-interfaces)
- Varying grades of driver-assistance systems
- Psycho-social facets of shared control (trust, variability)

Duties

1. Read the manuscript thoroughly.
2. Make comments and critiques about the research. Reviews without comments are unacceptable.
3. Make suggestions for improvement.
4. Submit the review with a rating in the areas requested in the system and a recommendation for rejection, revision, or acceptance.

Requirements

Becoming a reviewer requires proficient knowledge in the subject area and the ability to provide constructive criticism to the author and editors. SAE does require previous experience as a peer reviewer or completion of the [Publons Academy](#) training course or another appropriate training course. The most important requirement for being a reviewer is that you can devote enough time to give a professional and useful review within the time frame given, usually within one month maximum from the date of accepting the review assignment.

Interested?

If you are interested in being included as a reviewer, please contact managingeditor@sae.org and include a brief CV (three-page max) that includes recent publications.

Cyber-enabled System Capabilities

- Big data analysis, cloud computing architectures
- Vehicle navigation and situational awareness
- Fault detection and diagnosis, fault tolerant control
- Cybersecurity and cyber-enhanced security
- Active- and semi-active connected and automated vehicle control (adaptive, fuzzy, cooperative, neuro, emergent paradigms)
- Hybrid simulation- and empirical-testing paradigms (model-in-the-loop, hardware-in-the-loop)

Subsystem and System Engineering Frameworks

- Automated Guided Vehicles (AGVs)
- Multi-vehicle cooperation, connected vehicles, platooning
- Platooning and fleet management
- Reproducible testing and validation architectures and paradigms
- Noise, network failure, faults, reliability analysis
- Application use cases (warehousing, x-docking, mining, agriculture, military)