



# NEW IN 2021!

## Journal of Autonomous Vehicles and Systems

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- TIMELY
- ACCESSIBLE
- HIGH IMPACT

**The Purpose of *Journal of Autonomous Vehicles and Systems*** is to provide an international platform for the communication and discussion of technical knowledge and solutions in the transformative areas of the research and engineering design of autonomous vehicles and systems that operate in all media and inter-medium environments of: **Ground, Air, Space, and Water.**

**The Focus of the journal** is on autonomous vehicle system-of-systems approach to

- Modeling and Simulation
- Design and Utilization
- Physical and Virtual Testing

**The Vehicle Applications** include but are not limited to

- Personal and Cargo Transportation, Construction and Forestry, Farming
- Infrastructure Monitoring, Surveillance, and Military Applications
- Underground, Air and Water Vehicles, Vehicles for Exploration of other Celestial Bodies, etc.

### SCOPE

Artificial intelligence and machine learning; Artificial intelligence mimicking human intelligence for self-operation, shared mental and cooperative environment models; Intelligent perception and cognitive architectures for autonomous operation, decision making, controls and observation; Autonomous system models; Modeling, simulation and designing autonomous vehicle systems for their autonomy; Operator-vehicle interaction, including communication, operator trust in autonomous vehicle and autonomy transparency, teaming and task allocation; Shared control and mixed initiatives of autonomous vehicles, haptic feedback based autonomous operation, and driver-assistance systems; Active and passive payload models; Proprioceptive sensors in autonomous vehicle systems and exteroceptive sensors for autonomous vehicle and environment interactions; Outdoor and cyber-physical indoor proving grounds and research facilities; Inputs/outputs and environmental models in autonomous vehicle simulation and design; Gaming environments.

**Topic Areas include,** although not limited to:

- Autonomous vehicles and systems by medium of operation
- Autonomous vehicle and system dynamics, optimization and controls in interaction with multi-physics environments
- Autonomous vehicles and systems by applications
- Modeling, simulation and assessment of autonomous vehicles and systems for autonomous motion and task fulfillment
- Autonomy of vehicles and systems
- Design of autonomous vehicles and systems
- Artificial intelligence design with application to autonomous intelligent vehicles and systems
- Active and passive payload
- Perception and sensing
- Experimental testing and human/vehicle training research and engineering
- Planning
- Vehicle-to-Human, Vehicle-to-Vehicle Interaction, Vehicle-to-Infrastructure

Article submission, visit:

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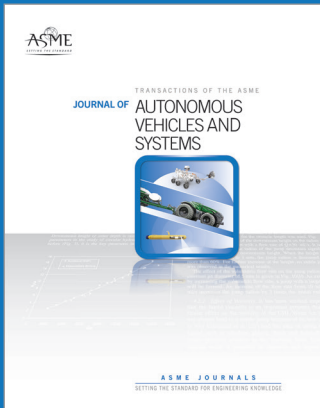
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DECEMBER 2021

## JOURNAL STATISTICS

- 20% acceptance rate
- 2.87 months from submission to Technical Editor decision
- 17 countries represented in submissions
- Associate Editors drawn from academia (63%), industry (29%), and government/military (8%)

## CALL FOR NEW ASSOCIATE EDITORS

JAVS is looking for highly qualified researchers across fields (academia, government/military, and industry) to serve as Associate Editors to build and enhance the journal's quality and reputation internationally. In particular, JAVS is actively seeking candidates with expertise in autonomous vehicles and systems in the water domain.

## ADDITIONAL JOURNAL CONTACT

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