



SASIGD 2026

2026 International Conference on Sustainable AI for Social Impact and Global Development

August 13-14, 2026

Technically Co-Sponsored by IEEE SSIT, #68127

CALL FOR PAPERS – SPECIAL SESSION

AI-Powered Sustainable and Intelligent Mobility Systems for Next Generation Automobiles

Session Code: **SS112**

Session Co-Chairs

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Session Description

The automotive industry established globally experiences a paradigm shift governed by sustainability imperatives along with automation in addition to technologies that are data-centric. Conventional vehicle conversion as smart mobility systems that are eco-efficient besides being sustainable is done by Artificial Intelligence. The focus of the special session is over innovative AI methodologies that are applied over the automotive lifecycle commencing with vehicle design being sustainable along with its driving behavior which is energy aware. It also includes autonomous mobility in addition to automotive environments. Carbon emissions need to be reduced which in turn enhances the efficiency of the vehicle thereby enabling infrastructures for transportation which are sustainable in nature. These are explored with solutions that are guided by AI. The researchers in addition to industry practitioners besides policymakers researching in AI-driven automobile technologies that are sustainable in nature are brought together for supporting the climatic goals as well as smart cities.

The topics of interest include, but are not limited to:

- AI-driven energy-efficient vehicle control and optimization
- Smart Optimization Algorithms for electric and hybrid vehicle
- Machine Learning driven predictive maintenance for enhancement of vehicle lifecycle sustainability
- Optimization Strategies in automotive manufacturing and supply chains using AI
- Sustainable autonomous driving and eco-driving behavior modeling
- AI for vehicle emission monitoring and reduction
- Smart mobility systems for urban sustainability and traffic optimization
- AI-enabled recycling, remanufacturing, and circular automobile design
- Digital twins and AI simulations for sustainable vehicle development
- Policy, ethics, and safety considerations in AI-driven sustainable mobility

IMPORTANT SUBMISSION DEADLINES

Call for Special Session proposals: **February 12, 2026**
Call for Regular Papers: **March 1, 2026**
Call for Student Posters: **March 8, 2026**



PAPER SUBMISSION

Scan the QR Code or Visit

<https://sasigd.org/special-sessions.php>



REVIEWERS REGISTRATION

Scan the QR Code or Visit

<https://forms.gle/oBdwKjcHC8gs6PyaA>

Experts are invited to join as reviewers for SASIGD 2026.

All the accepted & presented papers will be submitted for possible inclusion in IEEE Xplore.

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