



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 Responsible and Sustainable AI & IoMT for Smart Healthcare

Session Co-Chairs **Dr. SonuAgrawal**, Shri Shankaracharya Technical Campus, Bhilai (CG) India - (email: sonuagrawal@sstc.ac.in) **Session Code: SS36**

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Session Description

This special session deals with the problem of architectural latency and compliance complexity in healthcare data systems that prevent real-time AI applications from reaching their full potential in clinical settings. Traditional ETLbased data architectures introduce significant delays between data generation and AI-driven insights, creating barriers to timely clinical decision-making, patient care optimization, and operational efficiency. Healthcare organizations face the dual challenge of processing massive volumes of sensitive patient data (often 10+ terabytes daily) while maintaining strict regulatory compliance (HIPAA, GDPR) and enabling real-time machine learning workloads. The industry lacks standardized approaches for "Zero-ETL" architectures that can eliminate transformation bottlenecks while preserving data governance, security, and audit capabilities required in healthcare contexts. The goal is to bring together researchers, practitioners, and policymakers to advance the state-of-the-art in healthcare data engineering by sharing innovative architectural patterns, validated frameworks, and real-world implementations that enable compliant, real-time AI at scale. This session will foster discussion on bridging the gap between theoretical data architecture research and production-grade healthcare AI systems, with emphasis on measurable impact on patient outcomes, operational efficiency, and healthcare accessibility. We seek contributions that demonstrate both technical rigor and practical applicability in high-stakes healthcare environments, addressing challenges spanning cloud-native infrastructures, edge computing for medical devices, federated learning across institutions, and AI governance frameworks for autonomous clinical systems.

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

- AI-powered medical imaging, diagnostics, and healthcare data analytics
- IoMT-based remote monitoring and smart healthcare systems
- Energy-efficient, Green AI, and sustainable healthcare technologies
- Secure architectures, blockchain, and edge computing for medical networks
- Explainable, trustworthy, and ethical AI in clinical decision support
- AI solutions for public health, accessibility, and inclusive healthcare

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

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<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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