



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

Multimodal Learning in Building Trustworthy and Scalable AI Systems in Healthcare and Beyond

Session Code: **SS158**

Session Co-Chairs

Prof. Chander Prabha, Chitkara University, Punjab, India (email: chander.prabha@chitkara.edu.in)

Prof. Balamurugan Balusamy, Manipal Academy of Higher Education, Dubai Campus, Dubai, UAE – (email: balamurugan.balusamy@manipaldubai.com)

Ms. Shalini Kumari, Chitkara University, Punjab, India – (email: k.shalini@chitkara.edu.in)

Session Description

This special session focuses on multimodal learning approaches in healthcare and other critical domains for building trustworthy, robust, and scalable AI systems. It aims to bring together practitioners and researchers working in the area of AI, Machine Learning, Deep Learning, Multimodal Fusion, and Explainable AI (XAI) to integrate heterogeneous data sources, including medical images, sensor data, signals, genomics, etc. Emphasis will be placed on resource-efficient models that can operate across diverse populations and infrastructure levels, including low resource and real-world deployment environments.

The conference on Sustainable AI for Social Impact and Global Development aims to promote the development and deployment of responsible, inclusive, and scalable AI technologies that address pressing societal challenges. It encourages interdisciplinary research that aligns AI innovation with sustainability, equity, and global development goals. This special session is particularly interested in multimodal learning pipelines that support end-to-end trustworthy decision-making, continuous monitoring, and adaptive personalization in healthcare and beyond.

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

- Multimodal learning for disease prediction and early diagnosis (e.g., combining imaging, EHR, and sensor data)
- Trustworthy and explainable multimodal models for clinical decision support
- Speech processing, Natural Language Processing (NLP), and multimodal AI applications
- AI-driven smart systems for industry and smart cities
- Scalable architectures for large-scale multimodal healthcare data (cloud, edge, and federated settings).
- Robustness, uncertainty estimation, bias detection, and fairness in multimodal healthcare AI
- Multimodal AI for remote and resource-constrained settings (telemedicine, mobile health, wearables, IoT)
- Privacy-preserving and secure multimodal learning (federated, split learning, differential privacy)
- Applications of multimodal learning beyond healthcare, including: education, smart agriculture, climate action, ethical AI, and AI for underserved and marginalized communities.

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.

INTERNATIONAL ADVISORY COMMITTEE

Murty Polavarapu, IEEE SSIT President, USA

Kalyan Sen, IEEE SSIT President-Elect, USA

Bozena Pasik-Duncan, University of Kansas, USA

Mei Lin Fung, Vice-Chair, UN AI for Good

Luis Kun, National Defense University, USA

Morgan Kiani, Texas Christian University, USA

Prof. Giancarlo Fortino, University of Calabria, Italy

Dr. Greg Adamson, University of Melbourne, Australia

Prasanta K. Ghosh, Syracuse University, USA

Sanjeevikumar P., Vice President, Education, IEEE Systems Council

Dr. Mennatullah Hendawy, UC Santa Cruz, USA

Dr. A.L.X.R.A. Selvarathinam, Grand Valley State University, USA

Prof. Basabi Chakraborty, Iwate Prefectural University, Japan



Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad, India



August 13-14, 2026



sasigd@cbit.ac.in

CONFERENCE CHAIRS

Dr. Ramalatha Marimuthu
IEEE SSIT Vice President (Memberships)

Dr. Sagar Gujjunoori
Associate Professor, CBIT
Chair, IEEE SSIT Hyderabad Section Chapter

Join us in shaping Responsible and Sustainable AI for Global Development!