



ComSIA-2026

International Conference on Computing Systems and Intelligent Applications

Organized by School of Open Learning, University of Delhi & Shaheed Rajguru
College of Applied Sciences for Women, University of Delhi
20-21st March 2026.

******* CALL FOR PAPERS *******

SPECIAL SESSION ON

Generative AI and Data Analytics in Education and Healthcare

SESSION ORGANIZERS:

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SESSION DESCRIPTION:

This special session aims to explore the transformative impact of Generative Artificial Intelligence (AI) and advanced data analytics on education and healthcare systems. With the rapid evolution of deep learning architectures such as Generative Adversarial Networks (GANs), Variational Autoencoders (VAEs), and Large Language Models (LLMs), generative AI has become a pivotal tool in creating adaptive learning environments, automating content generation, and enabling precision diagnostics in healthcare. The session will emphasize cross-disciplinary applications that bridge AI-driven personalization, multimodal learning, and data-informed decision-making. It will also encourage discussion on ethical, interpretability, and data governance issues surrounding generative AI systems in sensitive domains like education and healthcare.

RECOMMENDED TOPICS:

Topics to be discussed in this special session include (but are not limited to) the following:

- Generative AI for intelligent tutoring and adaptive learning systems
- Data analytics frameworks for personalized education and health monitoring
- Large language models for academic and clinical decision support
- GANs and VAEs for medical image synthesis and augmentation
- Federated learning and privacy-preserving data analytics in healthcare

- Multimodal AI for behavioral and emotional analysis in learning environments
- Explainable and ethical generative AI applications in education and medicine
- Predictive and prescriptive analytics for student and patient outcomes
- Knowledge graph integration for AI-based educational and health systems
- Simulation-based generative frameworks for training and therapy

Synthetic data generation for educational and healthcare model training

- AI-driven assessment and feedback using generative text models
- Personalized rehabilitation and therapy using generative simulation environments
- Generative models for disease progression prediction and patient stratification
- AI-assisted curriculum and content design through generative frameworks
- Integration of LLMs for assistive education in neurodiverse populations
- Cross-domain transfer learning for generative medical and educational datasets
- Generative AI for improving accessibility and inclusivity in learning platforms
- Multi-agent generative systems for collaborative healthcare analytics
- Evaluating bias, fairness, and accountability in generative data models

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on “Generative AI and Data Analytics in Education and Healthcare”

All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE’S GUIDELINES FOR MANUSCRIPT SUBMISSIONS at https://comsia.in/paper_submission.html. All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting paper in this special session, please specify Generative AI and Data Analytics in Education and Healthcare at the top (above paper title) of the first page of your paper.

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