Special Session on

Advancing Generative AI: Exploring Next-Generation Models

in conjunction with

23rd International Conference on Hybrid Intelligence Systems (HIS)

December 12-14, 2023

Website: http://www.mirlabs.org/his23/cfss.php

Hybrid Mode – Online & Offline

Onsite Venues: http://mirlabs.org/his23/venue2.php

Objectives and Scope

AI models leverage billions of parameters to detect and retrieve objects, text, and images, while researchers continuously experiment with and develop newer large language models (LLMs) to enhance efficiency. Generative AI presents various challenges, particularly regarding pre-training volume and efficiency. Injecting billions of parameters into the model is crucial for comprehensive and accurate training. Despite their widespread use, current GPTs face criticism and receive caution from governments. The future agenda for Generative AI remains uncertain. Improving generative tools involves identifying extremist narratives in corpora to reveal diverse contexts and generate meaningful content for end-users. Evaluating existing models and their results will significantly contribute to future research. Considering these issues, we have organized this special session to explore diverse aspects of generative AI.

Subtopics

The topics include, but are not limited to:

- Text, Image, Code, Video, 3D models
- Domain-specific models
- Compositional generative models
- Foundation models
- Energy-based models
- Deep equilibrium models
- Impact of Generative AI on Teaching and Learning
- Knowledge and Semantic Issues in Generative AI
- Future LLM
- AI Ethical Issues
- AI and NLP
- Embedding in AI
- Reinforcement learning
- Data Support and Datasets in AI
- Standards and Benchmarks

Paper publications

- Proceedings will be published in Lecture Notes in Networks and Systems, Springer (https://www.springer.com/series/15179)
- Indexed by SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH, SCImago
- Paper maximum length is 10 pages
- Papers must be formatted according to Springer format (Latex/word) available at: https://www.springer.com/de/authors-editors/book-authors-editors/manuscript-preparation/5636#c3324
- Submission Link: https://cmt3.research.microsoft.com/ICHIS2023

Important Dates

Paper submission due: **September 30, 2023**
Notification of paper acceptance: **October 31, 2023**
Registration and Final manuscript due: **November 10, 2023**
Conference Date: **December 13-15, 2023**

Special Session Chairs

- **Dr. Anu Bajaj**, Thapar Institute of Engineering and Technology, Patiala, India
- **Prof. (Dr.) Ajith Abraham**, Machine Intelligence Research Labs (MIR Labs), USA

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