The 2nd International Workshop on Generative AI and Hyper Intelligence (GAI-HyperI 2025)

https://gai-hyperi.github.io/

Held in conjunction with IEEE CyberSciTech 2025

October 21-24, 2025, Hakodate City, Hokkaido, Japan

Aim and Scope

Generative AI (GAI) has seen rapid advancements and gained immense popularity in recent years. Beginning with Large Language Models (LLMs), the field has now expanded beyond them into a broader family of **xLMs**, including Vision–Language Models (VLMs), Large Multimodal Models (LMMs), and Large Reasoning Models (LRMs), collectively advancing toward creation-AI, thinking-AI, and even hyper-AI. Recent innovations such as Retrieval-Augmented Generation (RAG), prompt and context engineering, agentic RAG, and model distillation are driving this evolution. These developments enable generative systems with increasingly sophisticated creativity, multi-step reasoning, and adaptive behavior—key traits for realizing Hyper Intelligence. The creativity and adaptivity of generative AI are essential for the development of Hyper Intelligence.

Hyper Intelligence (HyperI) is an emerging interdisciplinary field focused on achieving super-intelligent systems capable of handling complex, real-world tasks. It involves the study of hyper-connections, hyper-compositions, hyper-collaborations, and hyper-cognition among intelligent entities. Such hyper-intelligent systems are increasingly applied in domains like smart transportation, intelligent healthcare, and personalized education, where adaptability, long-horizon planning, creative collaboration, and fairness are essential. However, these systems also raise fundamental challenges—including the design of new frameworks and agentic architectures, cognitive safety and alignment, continual learning, and issues related to human interaction and personalization. We believe that generative AI can enable hyper-intelligent systems to devise innovative and adaptive solutions to handle the above challenges

This workshop aims to explore how generative AI technologies, including agentic RAG, prompt/context engineering, xLM-based reasoning agents, and neuro-symbolic architectures, can serve as core enablers for HyperI. We welcome researchers to discuss and examine ongoing research on Hyper Intelligence by leveraging Generative AI

Topics of interest include, but are not limited to:

- ✧ Techniques for efficient and agentic application of generative AI (e.g., RAG, prompt engineering, distillation)
- ✧ Emerging capabilities and next-gen generative AI (e.g. AGI, creation-AI, thinking-AI, creative inference agents)
- ✧ Interpretable, explainable, and trustworthy generative AI
- ✧ Emotional, personalized, and adaptive generative intelligence
- ✧ Generative video, audio, image, text, music, and animation
- ✧ Applications of generative AI for education, research, work, design, medicine, entertainment, art, etc.
- ✧ Frameworks and agentic methods for hyper-intelligence
- ✧ Hybrid collective systems for hyper-intelligence
- ✧ Hyper-connections, cross-agent collaboration, adaptive memory and standards for agent interoperability
- ✧ Hyper-cognition, reasoning, and creative intelligences
- ✧ Security, robustness, transparency and safety in hyper-intelligent systems
- ✧ Ethical issues, including misuses and abuses, provenance, copyright, bias, and diversity

Submission and Publication

Please follow the guideline in IEEE CyberSciTech 2025 Submission Site to submit your work via EDAS (https://edas.info/N33760). The submitted papers should be 4-6 pages long including figures and references, and prepared in IEEE CS Proceedings format. IEEE formatting info: http://www.ieee.org/conferences_events/conferences/publishing/templates.html

We also welcome **Position Statement Papers** (2-4 pages), which present novel ideas, hypotheses, and emerging research directions in Generative AI and Hyper Intelligence. These papers should be prepared in IEEE CS Proceedings format and will be peer-reviewed for novelty and impact.

At least one of the authors of the accepted paper is requested to register and present the paper at the conference in **hybrid mode** (in person or virtually). All accepted papers will be published in an IEEE Computer Society proceedings (IEEE-DL and EI indexed).

Brainstorming Session

We are pleased to host a special brainstorming session to promote creative discussions and collaborations among participants. This session will provide a platform for sharing ideas and exploring new research directions in Generative AI and Hyper Intelligence. Participants are encouraged to bring forward innovative concepts and challenging questions to stimulate lively and productive exchanges.

Important Dates

Submission Deadline	**August 11 (Extended), 2025**
Acceptance Notification	August 16, 2025
Camera-ready Submission	September 12, 2025

Organizers

General Chair: Jianhua Ma, Hosei University, Japan

Program Chair: Ao Guo, Nagoya University, Japan

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Supported by

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