The 21st International Conference on Intelligent Information Hiding and Multimedia Signal Processing

(IIHMSP 2025)

October 15-17, 2025, The Splendor Hotel, Taichung, Taiwan

Special Session on Generative AI or Artificial Intelligence and Applications

Call for Papers

Organizers: Prof. Jia-Lang Xu and Prof. Mu-Yen Chen

This special session aims to create an environment where Generative AI or Artificial Intelligence is applied in various fields to showcase, exchange and discuss the latest progress of Generative AI and Artificial Intelligence in their wide range of applications. Generative AI and Artificial Intelligence (AI) are important concepts in today's technology field, which have a profound impact on the development and application of various industries. The following is a brief introduction to these two concepts, providing key insights and tools that are essential to solving complex challenges in each area. Today, generative AI is focused on generating new content or data, which can be text, images, audio, etc. Generative AI is based on the use of a large amount of data to generate new content. Generative AI is based on learning from a large amount of data and is able to create outputs that are similar to but unique from the training data. Artificial Intelligence aims to enable computer systems to perform tasks that require human intelligence, such as learning, reasoning, and problem solving.

We invite researchers, mathematicians, and industry practitioners to submit original research papers exploring computational techniques and application innovations in generative AI and Artificial Intelligence. We welcome submissions that advance current knowledge, whether through pioneering theoretical contributions, cutting-edge algorithmic designs, or novel applications that emphasize the adaptability and impact of generative AI and AI in addressing established and emerging challenges. Papers focusing on interdisciplinary approaches and scalable solutions to real-world optimization problems are particularly encouraged.

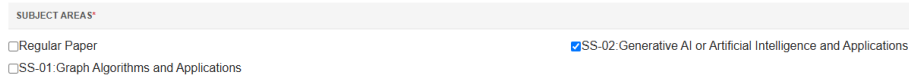Topics of interest for this Special Session include but are not limited to:

- Generative AI
- Data Mining
- Machine Learning
- Deep Learning
- Neural Network
- Artificial Intelligence
- Software Engineering

We look forward to your contributions that will enrich discussions and push the field's boundaries.

Submissions:

Papers should follow the template announced on the IIHMSP 2025 conference website (https://iihmsp25.csie.cyut.edu.tw), and be submitted via **Microsoft CMT** system and then select

SUBJECT AREAS: **<u>SS-02:Generative AI or Artificial Intelligence and Applications</u>** for submission (please refer to the following captured figure).

Conference Proceeding Information:

Papers that are presented orally at the conference and meet the publication requirements of IIHMSP-2025 conference proceedings will be published in Springer's book series titled "Smart Innovation, Systems and Technology." Normally, this series will be indexed by Scopus and EI Compendex.

Important Dates: (If IIHMSP 2025 extends the dates, follow those dates announced on the website)
Paper submission deadline: **May 30, 2025**

Acceptance notification: **July 30, 2025**

Camera-ready copy and registration: **July 15, 2025**

For more information:

Please visit the IIHMSP 2025 official websites (https://iihmsp25.csie.cyut.edu.tw or https://iihmsp25.github.io/) or contact the organizers of this special session as follows:

Prof. Jia-Lang Xu
Department of Computer Science and Information Engineering,
Chaoyang University of Technology, Wufeng, Taichung 413310, Taiwan
E-mail: jlxu@cyut.edu.tw

Prof. Mu-Yen Chen
Department of Engineering Science,
National Cheng Kung University, University Road., Tainan, 701, Taiwan
E-mail: mychen119@gs.ncku.edu.tw