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 Using Multimodal AI for Various Data Sources in Smart Applications

Call for Papers

Organizers: Prof. Rung Ching Chen and Prof. Nguyen Thi Ngoc Anh

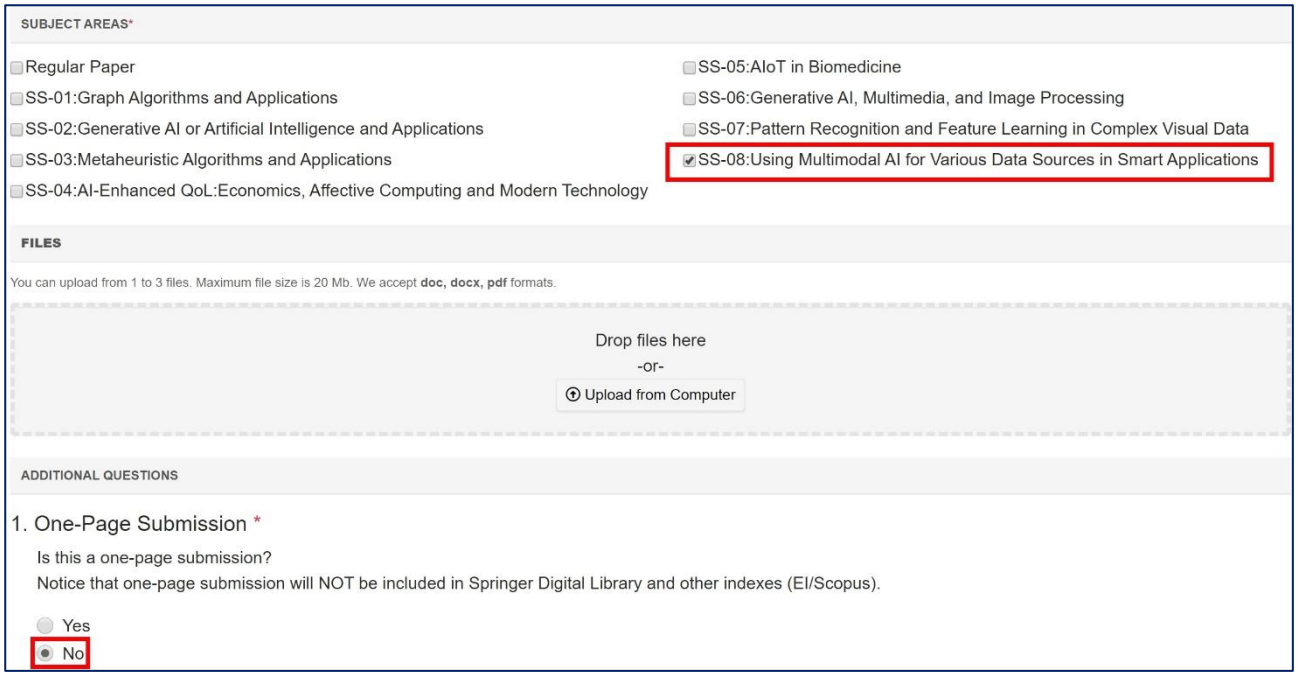
This Special Issue intends to unify advanced research and innovations by highlighting the use and integration of Computer Vision, smart predictive maintenance systems, and multi-modal applications within the expansive field of Intelligent Systems. Multimodal AI refers to machine learning models capable of processing and integrating information from multiple modalities or types of data. We aim to promote interdisciplinary dialogue and emphasize collaborative approaches where these technologies work together to address useful Machine Learning and AI Applications issues. The issue will examine new algorithms, system designs, practical applications, and assessments that extend the limits of current Intelligent System capabilities. We encourage the submission of original research articles, review papers, and case studies that address theoretical advancements, methodological innovations, and practical implementations. The scope includes but is not limited to:

- Lightweight Deep Learning models for visual and audio data analysis and applications
- Deep Learning models for efficient multimodal data analysis and fusion
- Sensor data analysis based on Deep Learning
- Efficient Multimodal AI methodologies for the Internet of Things
- Generate AI for applications in smart homes, smart lighting
- Generate AI for smart city applications
- Multimodal AI for intelligent transportation systems
- Multimodal AI for natural language processing and applications
- Multimodal AI for medical sciences applications.
- Multimodal AI for Virtual Reality applications.
- Multimodal AI for Metaverse applications
- Multimodal AI and AI Contribution to Optimum Technological Roadmapping

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: **SS-08:Using Multimodal AI for Various Data Sources in Smart**

Applications 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:

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