

**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 AI-Enhanced QoL, Economics, Affective Computing and
Modern Technology**

Call for Papers

Organizers: Prof. Naruki Shirahama, Prof. Satoshi Watanabe, and Prof. Junzo Watada

Background and Significance: Artificial Intelligence offers unprecedented opportunities for modern technologies, such as advanced economic analysis and affective computing methodologies. This special session explores innovative approaches to these distinct yet complementary fields. By leveraging advanced AI technologies, we aim to develop new methodologies for analyzing economic and managerial structures, while simultaneously advancing our understanding of subjective human experiences through affective computing.

Technical Approach: The session presents three core methodological streams.

- (1) Deep learning and GANs for advanced image processing and pattern recognition
- (2) Innovative approaches to economic and managerial analysis revealing structural patterns and relationships
- (3) Affective computing techniques utilize the VAS and Fuzzy Clustering to quantify subjective experiences.

These diverse approaches are unified through sophisticated data visualization techniques that enable intuitive interpretation of complex multidimensional data.

Expected outcomes and impacts

The integration of distinct methodological approaches powered by AI and ML aims to advance both economic analysis and affective computing. This research will contribute to the development of new analytical frameworks, while establishing more robust methods for quantifying and understanding subjective human experiences. The topics covered in this Special Session include, but are not limited to, the following areas:

1. Economic pattern recognition using deep learning and image processing
2. Modern innovative analysis of complex economic networks
3. Affective computing applications and subjective assessment
4. VAS integration with fuzzy clustering for human experience analysis
5. Advanced visualization techniques for multidimensional data
6. AI-driven pattern recognition in economic structures
7. Novel frameworks for quantifying subjective experiences

Submissions:

Papers should follow the template announced on the IIHMSP 2025 conference website (<https://iihmSP25.csie.cyut.edu.tw>), submit via [the Microsoft CMT](#) system, and then select SUBJECT AREAS: **SS-04:AI-Enhanced QoL: Economics, Affective Computing and Modern Technology** for submission (please refer to the following figure).

The screenshot displays the Microsoft CMT submission interface. At the top, under 'SUBJECT AREAS*', there is a list of checkboxes for different paper types and subject areas. The checkbox for 'SS-04:AI-Enhanced QoL:Economics, Affective Computing and Modern Technology' is checked and highlighted with a red rectangle. Below this, the 'FILES' section shows a message: 'You can upload from 1 to 3 files. Maximum file size is 20 Mb. We accept doc, docx, pdf formats.' There is a large dashed box for dropping files, with the text 'Drop files here' and '-or-' below it. A button labeled 'Upload from Computer' is also present. At the bottom, the 'ADDITIONAL QUESTIONS' section contains a question: '1. One-Page Submission *'. Below this question, it asks 'Is this a one-page submission?' and provides a notice: 'Notice that one-page submission will NOT be included in Springer Digital Library and other indexes (EI/Scopus)'. There are two radio buttons: 'Yes' and 'No'. The 'No' radio button is selected and highlighted with a red rectangle.

Conference Proceedings Information.

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

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Special issue:

We organized a special issue in various journals, such as the JACIII (Q3), MDPI Mathematics (Q2), MDPI Applied Sciences (Q1), and MDPI FinTech Journal (Scopus). (These are open access journals.)