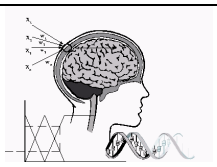
International
Innovation in Knowledge Based and Intelligent Engineering Systems



INVITED SESSION SUMMARY

Title of Session:
Intelligent and Adaptive Learning Systems across Educational Contexts

Name, Title and Affiliation of Chair:
Prof. Dr. Hiroshi Ueda (Hosei University, Japan)

Details of Session (including aim and scope):
Aim and Scope
With the rapid advancement of AI and digital technologies, intelligent and adaptive learning systems are increasingly being integrated into various educational contexts beyond traditional Learning Management Systems (LMS). These next-generation environments leverage artificial intelligence (AI) to personalize learning experiences, support educators, and enhance accessibility across time and distance.
This invited session aims to bring together researchers and practitioners to discuss innovative approaches, analytical frameworks, and applications of intelligent learning systems. We particularly welcome studies on how such systems capture, analyze, and utilize interaction data through cutting-edge analytical methods such as data mining, deep learning, and natural language processing (NLP) to improve learning processes and outcomes.
The session also explores human-centered and affective aspects such as learner modeling, automatic feedback generation, ethical issues, and AI bias in education, contributing to the design of intelligent, trustworthy, and inclusive digital learning ecosystems.
We invite contributions from researchers, educators, and practitioners working on intelligent, adaptive, and data-driven approaches to digital learning and educational innovation.

Topics of Interest
Topics of interest include, but are not limited to:

AI and Adaptive Learning Systems
- Intelligent and adaptive learning systems
- AI in education and educational data mining
- Applications of Generative AI (e.g., ChatGPT, Midjourney) in education
- Adaptive support for learning, learner modeling, diagnosis, and feedback
- Modeling of motivation, metacognition, and affective aspects of learning

Technology-Enhanced and Evidence-Based Learning
- Technology-enhanced learning and its theoretical foundations
- Learning analytics and evidence-based education
- Course management in online and virtual learning environments
- Usage of Learning Management Systems (LMS) for teaching and learning practices

Applications and Case Studies
- Practices in specific educational contexts (e.g., language learning, STEAM, disaster prevention) using ICT
- Curriculum and instructional design
- Gamification and gamified learning environments
- Embodied learning for wellbeing in education

Ethics, Privacy, and Data Use
- Use, security, ethics, and privacy of educational data
- AI bias and fairness in learning systems

Emerging Technologies and Interfaces
Complex system architecture and intelligent interfaces
Recommendation systems for education
Adaptation of AR/VR/XR in reshaping education
Development of innovative educational tools

Important Date
Paper submission deadline: 15 April 2026
Notification of acceptance: 1 May 2026
Final paper submission: 28 May 2026
Author registration deadline: Same as KES main conference

Session Chairs
Prof. Dr. Hiroshi Ueda (Hosei University, Japan) - Chair
Associate Prof. Dr. Mohammad Nehal Hasnine (Hosei University, Japan) - Co-Chair
Prof. Dr. Hiroya Suno (Hosei University, Japan) - Co-Chair
Associate Prof. Dr. Qian Wu (Hosei University, Japan) - Co-Chair
Associate Prof. Dr. Hisashi Hatakeyama (Institute of Science Tokyo, Japan) - Co-Chair

Main Contributing Researchers / Research Centres (tentative, if known at this stage):
Research Center for Computing and Multimedia Studies, Hosei University, Japan
Center for Innovative Teaching and Learning, Tokyo Institute of Technology, Japan

Website URL of Call for Papers (if any):
https://kesis.media.hosei.ac.jp/

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