INTERNATIONAL

INVITED SESSION SUMMARY

Title of Session:
Aspects of intelligent learning systems: e-Learning across various educational contexts

Name, Title and Affiliation of Chair:
Chair
Prof. Dr. Hiroshi Ueda (Hosei University, Japan)
Co-Chair
Associate Prof. Dr. Mohammad Nehal Hasnine (Hosei University, Japan)
Associate Prof. Dr. Hiroya Suno (Hosei University, Japan)
Associate Prof. Mr. Hisashi Hatakeyama (Institute of Science Tokyo, Japan)

Details of Session (including aim and scope):

Aim and Topics

In addition to e-learning using Learning Management System (LMS), intelligent and adaptive learning systems including next-generation digital learning environments have been applied to a variety of educational fields. Furthermore, artificial intelligence (AI) is considered to be the key technology for solving educational problems and smoothen teaching and learning. Online learning using such systems has the potential to realize optimized learning for learners regardless of time and distance.

This invited session focuses on various aspects of the intelligent and adaptive learning systems, including how various learning systems interact with learners/educators in capturing rich interaction data, pre-process and analyzing them using cutting-edge analytical methods such as knowledge discovery, natural language processing (NLP), data mining, deep learning, AI, etc. for changing the dynamics of physical and social environments. This invited session explores intelligent and affective aspects such as knowledge representation, automatic feedback generation, AI bias in learning systems, multimedia annotation, innovativeness in e-learning, etc. to design new tools that could solve complex social and educational problems.

Specific topics of interest include but not limited to:

Intelligent and adaptive learning systems
Technology enhanced learning and its theoretical foundation
Course management in online and virtual learning
Usage of Learning Management System (LMS) for teaching and learning practices
AI in education
Applications of Generative AI (such as ChatGPT, Midjourney) in Education
Practice in specific educational contexts (such as language learning, STEAM, and disaster prevention) using ICT
Learning analytics and evidence-based education
Usage, security, ethics, and privacy policy of educational data
Development of educational tools
Curriculum and instructional design
Gamification and gamified learning environments
Adaptive support for learning, models of learners, diagnosis, and feedback
Modeling of motivation, metacognition, and affective aspects of learning
Recommendation systems
Complex system architecture
Adaptation of AR/VR/XR in reshaping education
Intelligent interfaces
Models and techniques for educational data mining
Embodied learning for wellbeing in education

Important Date

Submission of papers: 15 April 2025
Notification of acceptance: 1 May 2025
Final paper publication files to be received by 28 May 2025
Early / Authors Registration Deadline: Same to KES conference deadline

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, Institute of Science Tokyo, Japan

Website URL of Call for Papers (if any):

https://kesis.media.hosei.ac.jp/

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