

INVITED SESSION SUMMARY**Title of Session:**

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

Name, Title and Affiliation of Chair:

Prof. Dr. Hiroshi Ueda (Hosei University, Japan)

Name, Title and Affiliation of Co-Chair:

Associate Prof. Dr. Mohammad Nehal Hasnine (Hosei University, Japan)

Associate Prof. Dr. Hiroya Suno (Hosei University, Japan)

Associate Prof. Mr. Hisashi Hatakeyama (Tokyo Institute of Technology, Japan)

Details of Session (including aim and scope):**Aim**

In addition to e-learning using LMS, intelligent and adaptive learning systems includes next generation digital learning environment have been applied to variety of educational fields. 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, 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.

Topics

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
- Practice in specific educational contexts (such as language learning, STEM, disaster prevention) using ICT
- Learning analytics and evidence-based education
- Usage, security, ethics and privacy policy of educational data
- Knowledge clustering in education
- Development of educational tools
- Curriculum and instructional design
- ICT usage to improve pedagogies
- Gamification and gamified learning environments
- Adaptive support for learning, models of learners, diagnosis and feedback
- Modelling of motivation, metacognition and affective aspects of learning
- Recommendation systems
- Complex system architecture
- Adaptation of AR/VR/XR in reshaping education
- AI-assisted innovative technologies in educational contexts
- Intelligent interfaces
- Models and techniques for educational data mining

Important Date

- Submission of papers: 15 April 2023
- Notification of acceptance: 1 May 2023
- Final paper publication files to be received by 28 May 2023
- 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, Tokyo Institute of Technology, Japan

Website URL of Call for Papers (if any):

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

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