

**INVITED SESSION SUMMARY****Title of Session:****Smart Education: Learning environment using technology****Name, Title and Affiliation of Chair:**

Chair: Nobuyuki Ogawa, Professor, National Institute of Technology, Gifu College  
Co-chair: Hideyuki Kanematsu, Professor, National Institute of Technology, Suzuka College  
Co-chair: Kuniaki Yajima, Professor, National Institute of Technology, Sendai College  
Co-chair: Katsuko T. Nakahira, Associate Professor, Nagaoka University of Technology  
Co-chair: Kazunori Nishino, Professor, Taisei Gakuin University

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

At present, universal education has been extended to higher education as well, and various educational systems are helpful for our lifelong learning. With this trend, a teacher-centered class should be changed to a student-centered class. In other words, they should learn in a positive manner at all levels of education. To achieve such a purpose, smart education centering on e-learning as well as active learning using ICT will play a more important role than ever.

In this session, we will cover topics on the learning environment using technology. We welcome presentations on teaching methods, educational system, PBL practice, educational evaluation etc if it relates to smart education that evokes student activities.

The following topics will be welcomed:

**[TOPICS]** Smart Education, ICT-driven Education, Distance Learning, Collaborative Learning; Practical Examples for Smart Education, Academic Portfolio, Learning Management Systems, Curriculum Development, Simulations and Modelling, Virtual Learning Environments

Additionally, in this session, we welcome topics on general smart technology that will be applied in various fields including education in the future. We additionally cover the following topics:

**[TOPICS]** Wearable sensor technology, Avatar robot technology, Metaverse technology, Remote control technology, Biometric measurement technology, Cyber space and physical space connection technology, XR (VR, AR, MR) technology, General sensing technology, General robot technology, etc.

**Main Contributing Researchers / Research Centres (tentative, if known at this stage):**

e-Help in Japan

**Website URL of Call for Papers (if any):**

<http://oberon.nagaokaut.ac.jp/kes/2022/index.htm>

**Email & Contact Details:**

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