Sensors and Materials

Special Issue on
Sensors and Artificial Intelligence for Smart Education Environments

Call for Papers

Nowadays, developments that combine sensors and artificial intelligence (AI) are being actively used in various application fields such as education and learning. There is a need to shift from one-size-fits-all systems to personalized learning environments that provide control to the learners. To explore the smart education and smart campus modes in the context of artificial intelligence Internet of Things (AIoT), an education-status-predicting module that detects learners' behaviors or learning environment contexts through links with sensing devices is needed. Therefore, we must look toward developing an AI-based efficient smart education/learning framework for an education platform. In this special issue (SI), ideas that combine AI and sensor technologies to improve the learning and campus environments will be presented. The goal of this SI is to highlight state-of-the-art works that deal with the use of AI for educational applications. It aims to promote and continue discussions on smart education/learning systems with various combinations of hardware/software and multiple sensors with the goal of creating more efficient and attractive learning environments. By applying AI and sensors in education, school operational efficiency, campus safety, and quality of education can be improved.

Papers on both theoretical studies and practical applications are welcome. Submitted papers should present original, unpublished work relevant to one of the topics of the SI. All submitted papers will be evaluated on the basis of relevance, the significance of the contribution, technical quality, scholarship, and the quality of presentation by at least three independent reviewers.

Scope: (including but not limited to)

1. Human–computer interaction in a learning technology application.

2. Information fusion and its applications for realizing a smart campus.

3. Vision/image-based sensors for learning environments.

4. Machine/deep learning in sensing for education.

5. Interactive education system based on smart sensor recognition.

6. Smart sensor school using management information system.

7. Advanced sensors technology in learning.

8. New interaction approaches using Al for learning applications.

9. Understanding game-based learning using AI.

Guest Editor: Prof. Chih-Hsien Hsia (National Ilan University)

Important Dates:

Submission due date: ~~April 30, 2023~~ >> Extended to May 31, 2023

Publication date (planned): Second half of 2023

Journal website: https://sensors.myu-group.co.jp/

Submit to: Online Manuscript Submission System (https://myukk-org.ssl-xserver.jp/form/)

(Attention)

As stated in Instructions to Authors in the Guidelines, the author(s) will be obliged to pay the publication fee upon the acceptance of the manuscript for publication (for example, JPY 112200 for 10 pages in *Sensors and Materials* format). If the quality of the English of your manuscript does not satisfy the journal standards, the authors should bear the proofreading fee (JPY 10000–40000), which will be charged in addition to the publication fee.

If you have any questions, please feel free to contact the editorial staff at the address below.