MACHINE LEARNING IN SMART EDUCATION SYSTEM

GUEST EDITORS

Dr. MAMOUN ALAZAB, Associate Professor, IT and Environment, Charles Darwin University, Australia, m.alazab@icsl.com.au

Dr. AMEER AL-NEMRAT, Faculty in School of Architecture Computing and Engineering, University of East London, London, a.al-nemrat@uel.ac.uk

Dr. MOHAMMAD SHOJAFAR, Associate Professor, Institute for Communication Systems, University of Surrey, United Kingdom, m.shojafar@surrey.edu.uk

DESCRIPTION

Machine learning is an Artificial Intelligence (AI) application that helps computers or educators to understand conventional data analytics for smart choices. The Machine Learning is the process of intelligent management of information and its transformation into a standardized knowledge for various areas in the smart education system. It mainly supports the learning process with an intelligent assistant in education management based on interactive technology. This smart development of the technology gives hand to innovative and interactive teaching-learning process. The significance of smart education methods helps students to incorporate contents based on problem-solving and communication skills, recommend instructional materials, estimate student behaviour, and manage large amount of data. However, the impact of these issues can be demonstrated through an efficient design in smart learning, which is considered a key challenge in smart education. The learning environment should establish the use of an interactive learning approach that helps to assess and scale the impact to ensure effectiveness in the teaching-learning process.

The machine learning has the ability to resolve the key challenge in smart education through potential factors leading to new applications, productive functions, and more valuable approaches. This learning manipulates large datasets to intensify the knowledge, understanding, and advanced data models for smart education cultures. The advancement of smart learning systems with machine learning helps users to improve consistently and become digitally educated. As a result, the innovative solutions are required to enhance smart teaching-learning methods and persistently evaluate how the students are mentored and assessed to empower knowledge and skill development.

This special issue on “Machine Learning in Smart Education System” offers opportunities to explore how teaching-learning techniques influenced based on interventions and implementations in the smart education environment.

The topics of interest for the special issue:

- Impact of Machine learning in smart education
- Smart Education Framework in education environment
- Improve learning with predictive analytics and data mining techniques
Emerging cognitive technology for teaching and learning process
Data analytics to track the knowledge of students through assessment
Knowledge derived from evolution of education culture
Intelligence process tools examine large amounts of structured data for effective management
Evaluation and training of smart learning through this education system
The perfect method to practice case studies for smart learning
Emerging technology for educational data protection systems in teaching-learning organizations.

IMPORTANT DATES

Submission Deadline for Full-Paper: 30/03/2021
First Reviews Decisions: 31/03/2021
Last Date for Revised Manuscripts: 20/05/2021
Final Manuscript: 31/07/2021
Publication of Special Issue: 15/09/2021