Special Session on Application of Intelligent Systems, Technologies and AI in Education

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This session encourages submissions focused on various applications of intelligent systems, digital technologies, and artificial intelligence (AI) in the education area. The session aims to provide state-of-the-art research exploring opportunities to integrate information and communication technologies (ICT), systems, and ICT-enhanced solutions into contemporary teaching and learning.

Today's education tends to embrace innovative technology applications and AI-based tools that transform the teaching-learning process entirely. These trends have to be explored, thoroughly analyzed, and broadly discussed to outline their benefits, drawbacks, and perspectives. The impact of intelligent technologies is multifaceted and their appropriate implementation is a challenge. Smart technologies and AI enhance the educational process and are widely applied. Their increasing integration, however, may raise issues like ethical concerns, practical obstacles, and the digital divide.

Papers submitted to this session are expected to present research on different aspects related (but not limited) to Intelligent Educational Environments, Intelligent Tutoring Systems, Technology-based Personalized Education, Integration of Intelligent Technologies in STEM Education, Integration of AI in Educational Games and Gamification, and Dependability Aspects in the Context of Intelligent Educational Environments.

This session seeks to discuss and identify research challenges, future work areas, and tendencies concerning the associated topics. Authors are invited to present surveys, research, practical implementations, case studies, and work-in-progress that cover the application of intelligent systems, technologies, and AI in the educational field.