

**SPECIAL TRACK PROPOSAL**

**Title:** Technology-based approaches on learner's behavioral modelling

**Key Organizer(s):**

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**Description and significance of the Special Track:**

Learners' individual differences have been recognized as a critical factor in the teaching-learning process. The current challenges in educational environments include the lack of understanding the dissimilarities in learner's abilities/needs and lack of learner's motivation towards learning activities. Recently, educational research has demonstrated that the large volume of learning data collected/captured via multiple information sources (e.g., VR and gamification) could be used to identify and better understand learner's behavioral patterns. From this perspective, the quality of teaching-learning processes can be enhanced by analyzing the learner's behavioral characteristics using different technology based solutions. The aim of this special track is to collect research work on the potentialities that can be revealed upon the so far lessons learnt in this area.