



Collaborative Problem Solving in Intelligent Online Learning Environments: From the Perspective of (meta)Cognition

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This session will explore the theoretical foundations and future research directions of collaborative problem solving within intelligent online learning environments, with a focus on (meta)cognition. Drawing on emerging developments in artificial intelligence, the presentation will examine how advanced technologies can be leveraged to understand, facilitate, and enhance students' abilities to monitor and regulate their individual and group-based problem-solving processes. The session will highlight interdisciplinary insights that connect metacognition, adaptive learning, and AI-driven support for collaborative problem solving in STEM contexts.

