Development and validation of the AI-enhanced Self-Regulated Learning (AI-SRL) scale

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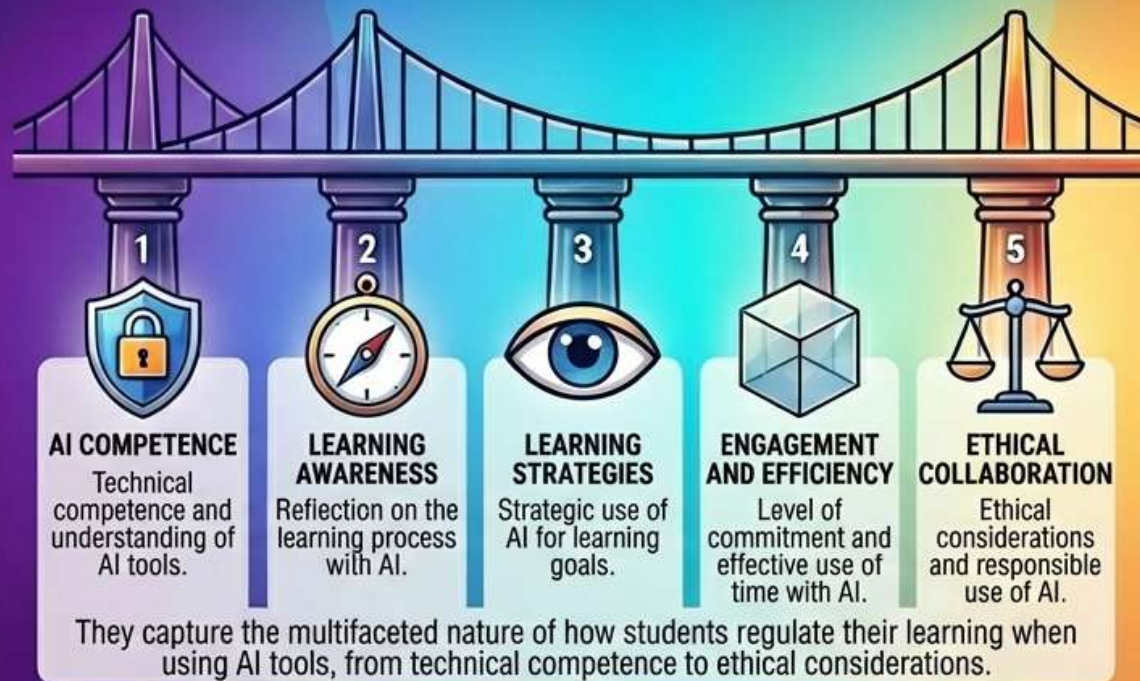

PERSPECTIVE: BETWEEN OPPORTUNITIES AND GAPS

The Current Problem

AI offers new opportunities to improve self-regulated learning (SRL). However, current tools lack precision to evaluate how AI influences students' self-regulatory capacities.

5 DIMENSIONS OF THE AI-SRL SCALE TO EVALUATE SELF-REGULATED LEARNING:

1 AI COMPETENCE
Technical competence and understanding of AI tools.

2 LEARNING AWARENESS
Reflection on the learning process with AI.

3 LEARNING STRATEGIES
Strategic use of AI for learning goals.

4 ENGAGEMENT AND EFFICIENCY
Level of commitment and effective use of time with AI.

5 ETHICAL COLLABORATION
Ethical considerations and responsible use of AI.

They capture the multifaceted nature of how students regulate their learning when using AI tools, from technical competence to ethical considerations.

PRACTICAL EXEMPLIFICATION: THE AI-SRL INSTRUMENT

Instrument Validation

Rigorous process (literature review, expert consultation, systematic validation). Two-phase approach with separate samples for exploratory and confirmatory factor analyses. Final scale of 22 items.

Practical Applications

For educators (optimizing AI integration), researchers (studying AI and SRL), and institutions (developing AI-enhanced curricula). Solid psychometric properties.

The AI-SRL Scale provides a reliable framework to evaluate the extent to which students leverage AI tools while maintaining their self-regulatory capacities, thus contributing to a more effective and responsible implementation of AI.