IMCL Special Session
Call for Papers

Building AI Resilience in Education: AI-Native Pedagogies and Curricular Processes (BAIRE)

Overview

This special session focuses on how Artificial Intelligence (AI) can be integrated meaningfully into both education to foster resilience, adaptability, and cognitive empowerment in the age of AI. The session will showcase pedagogical innovations that develop AI-collaborative and AI-complementary skills among students through structured curricular processes—such as seed idea-based learning, AI-native simulations, and entrepreneurial identity development in view of trasformations anticipated in the workspaces of AI age. The session will highlight how natural intelligence interact with artificial intelligence and try to bridge the gaps in this synergy. Contributions are invited that explore AI-powered learning environments, Cognitive analytics, Psychometric modeling, Human–AI collaboration frameworks, and Ethical AI usage in academic contexts. By bringing together the educational and neurosceintific aspects of intellignece, the session aims to emphasize biointelligence as a shared frontier, where the human brain and AI systems co-evolve to support learning, diagnosis, and societal well-being.

Topics

- *AI-native pedagogical models and frameworks*
- *Seed idea-based curricular processes for AI resilience*
- *AI-collaborative and AI-complementary skill development*
- *Generative AI in STEM and engineering education*
- *AI-assisted simulation of physical and biological phenomena*
- *EEG/ECG time series analysis using AI and nonlinear dynamics*
- *Psychometric tools and cognitive assessment in AI-enhanced learning*
- *Biointelligence and neuro-symbolic computing in education*
- *Human-AI synergy in creativity and cognition*
- *Ethical and inclusive AI in academic settings*

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