

IMCL Special Session Proposal

Title

Interoperability in Education: Standards, AI and Connected Learning Ecosystems

Acronym

InterEdu

Overview

This Special Session explores the role of interoperability in shaping the future of digital education, intelligent learning environments, and connected learning ecosystems.

As educational institutions increasingly adopt AI-driven services, digital credentials, learning analytics, virtual mobility solutions, and cross-institutional learning infrastructures, interoperability becomes a critical enabler for scalable, trusted, and learner-centered educational ecosystems.

The session aims to bring together researchers, practitioners, policy makers, standards organizations, and educational technology stakeholders to discuss emerging frameworks, architectures, standards, and implementation practices supporting interoperable and sustainable digital learning environments.

Particular emphasis will be given to educational interoperability standards, AI-enabled educational ecosystems, micro-credentials and digital credentials, trusted infrastructures for learner mobility and virtual exchange, semantic interoperability, learning data portability, and institutional interoperability practices in higher education and lifelong learning.

The session also welcomes contributions presenting real-world interoperability implementations, cross-institutional platforms, European Universities Alliances initiatives, interoperability governance models, and AI-supported connected learning services.

The Special Session aims to foster dialogue between technical, organizational, semantic, and policy perspectives of interoperability, while highlighting how interoperable ecosystems can support flexibility, inclusion, lifelong learning, and trusted digital transformation in education.

Topics

- Educational interoperability frameworks and standards
- AI-enabled educational ecosystems
- Learning technologies interoperability
- Digital credentials and micro-credentials
- Learning opportunities metadata and portability
- Learner mobility and virtual exchange
- Trusted digital infrastructures for education
- Semantic and technical interoperability
- AI governance and interoperability in education

- Learning analytics interoperability
- LMS, SIS and platform integration
- Interoperability in European Universities Alliances
- Interoperability and lifelong learning ecosystems
- Cross-institutional learning environments
- Standards-based educational architectures
- Educational data exchange and APIs
- Identity management and trusted authentication
- Interoperability implementation case studies

Program Committee

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