25th International Conference on Interactive Collaborative Learning
51st IGIP International Conference on Engineering Pedagogy

ICL2022
„**Learning in the Age of Digital and Green Transition**"

Hilton Park Vienna, Austria, 27–30 September 2022

ICL Special Session Proposal Template

Title
DIGITALIZATION Trends in MASTER and DOCTORAL Research

Acronym
DT-MDR

Overview

Recent studies have shown that this last year was a year of transformation: People, corporations and the society at large began to look ahead towards influencing their futures in a more meaningful way rather than just simply staying the course.

Increased Connectivity implies more Digital Transformation. The upcoming introduction of 5G and the new Wi-Fi 6 standard will enable faster connectivity – crucial if the world is to embrace these new digital trends. Future applications for these new technologies will include smart cities, the internet of things, and vehicle-to-vehicle communications – which would ideally improve traffic flow and safety.

Organizations/Universities leading the call to digital transformation achieve sustainable growth and enhanced margins while thriving through disruption. Don't get left behind. Push your Master´s and Doctoral studies students in the right direction.

Digital transformation in higher education refers to an organizational change, realized by means of digital technologies and business models with the aim to improve the institution's operational performance. In other words, it is the transformation of the entire business model through digital technologies to better serve customers and streamline business operations. Higher education is no longer immune from students' high expectations and preferences for digital service.

Digital transformation involves defining a roadmap with a sequence of capabilities which should be developed, with the specific purpose of leveraging digital technologies to drive business to an entirely new level.

Topics
1. *New digital world and Technologies*
2. *Hybrid teaching and learning models*
3. *Artificial Intelligence AI and Robotics*
4. *Emergent technologies in Music Therapy*

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5. *Computer-Assisted Education*
6. *Virtual Instrumentation and Technology*
7. *Trends in LI-FI communications*
8. *Bioinformatics and Quantum Computing*
9. *Cyber security*
10. *Edge Computing*
11. *Virtual and Augmented Reality*
12. *Internet of Things IoT – new trends*
13. *New materials*
14. *Machine Learning methods in Electronics and Mechanics*
15. *Intelligent Food and Cooking recipes*

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