ICL2024 Special Session
Call for Papers

Title
Dance of Data in Educational Science and Practice

Acronym
DODESP

Overview
Understanding the complexities of our surrounding environment, comprehending the governing principles that determine its functioning, and acquiring relevant information are essential components of human existence. This imperative is emphasised by the necessity to grasp the current situation while employing acquired data to update present decision-making processes and reinforce preparatory processes for the future. Data, in this context, represent invaluable knowledge, serving as a basis for shaping and enhancing our trajectory. This fundamental premise resonates not only within the sphere of everyday interactions but also through the domains of science, technology, and education. Indeed, individuals, societies, and the global community rely on data-driven insights to navigate their course of action. The ubiquity of data highlights its key role in engineering pedagogy and technical education, wherein the dissemination of knowledge and cultivation of practical skills are principal objectives. The primary aims of organisations such as the International Society for Engineering Pedagogy (IGIP) meet upon the enhancement of pedagogical methodologies across technical and general disciplines. This pursuit covers the refinement of instructional approaches, the development of curricula tailored to meet the evolving demands of students and employers, multimedia integration in educational practices and the incorporation of interdisciplinary perspectives, including languages and humanities, into technical education. Initiatives directed by IGIP extend to the cultivation of managerial skills among students, the propagation of environmental consciousness, and the facilitation of technical education in developing countries. The thematic focus of the Special Session is focussed on the acquisition, manipulation, and application of data within educational contexts. Alongside the objectives presented by IGIP, the session aims to foster a collaborative atmosphere to exchange experience and present good practices. Through this intensive effort, the session aspires to provide advancements in educational practices, contributing to the key objectives of increasing pedagogical efficiency and holistic development among learners.

Topics

- *Digital education strategy and engineering pedagogy*
- *Engineering pedagogy*
- *Quality of education*
- *Trends in teacher education*
- *Improving teacher training*
- *Digital competencies of teachers*
- *Pedagogical diagnostics and evaluation*
- *School safety and indoor quality*
- *Education and social distance*
- *Startups*
- *Improving the employability of graduates in the labor market*

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