



The 22<sup>nd</sup> edition the International Conference on Cognition and Exploratory Learning in Digital Age (CELDA 2025) was held in Porto, Portugal, from 1 to 3 November 2025.

This conference was organized by the International Association for Development of the Information Society.

The CELDA conference aims to address the main issues concerned with evolving learning processes and supporting pedagogies and applications in the digital age. There have been advances in both cognitive psychology and computing that have affected the educational arena. The convergence of these two disciplines is increasing at a fast pace and affecting academia and professional practice in many ways. Paradigms such as just-in-time learning, constructivism, student-centered learning and collaborative approaches have emerged and are being supported by technological advancements such as simulations, virtual reality and multi-agent systems. These developments have created both opportunities and areas of serious concerns. This conference aims to cover both technological as well as pedagogical issues related to these developments. Main tracks have been identified. However innovative contributions that do not easily fit into these areas will also be considered as long as they are directly related to the overall theme of the conference – cognition and exploratory learning in the digital age.

The CELDA 2025 Conference received 78 submissions from more than 28 countries. Each submission was reviewed in a double-blind review process by at least two independent reviewers to ensure quality and maintain high standards. Out of the papers submitted, 42 were accepted as full papers for an acceptance rate of 54%; 20 were accepted as short papers and 2 were accepted as a reflection papers.

Authors of the best published papers in the proceedings of CELDA 2025 were invited to publish extended versions of their papers in:

- A book from Springer  Springer

In addition to the presentation of full, short and reflection papers, the conference also included one keynote presentation by Professor Marcus Specht, Learning Sciences in Higher Education at the Research Center for Higher Education of the Future (CATALPA) at the Fernuniversität in Hagen, Germany.



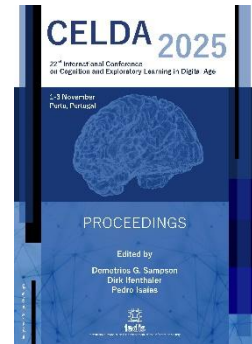
**Keynote Presentation:**

**“CHALLENGES AND PERSPECTIVES ON THE DEVELOPMENT OF HUMAN LEARNING WITH AI”**

Professor Marcus Specht, Learning Sciences in Higher Education at the Research Center for Higher Education of the Future (CATALPA) at the Fernuniversität in Hagen, Germany

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