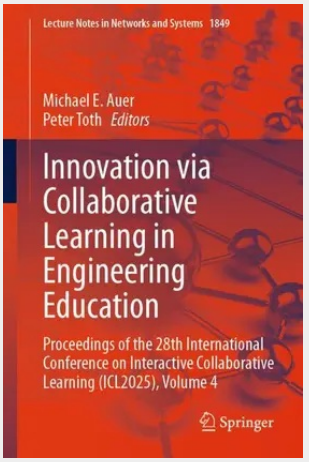
Auer / Toth

Innovation via Collaborative Learning in Engineering Education

Proceedings of the 28th International Conference on Interactive Collaborative Learning (ICL2025), Volume 4



We are currently witnessing a significant transformation in the development of education on all levels and especially in post-secondary and higher education. Especially, the current explosion of AI tools, is challenging teaching practices maintained for centuries.

The ICL2025 together with the 54 IGIP Conference, which took place in Budapest, Hungary, between from 01-03 October 2025, was the perfect place where current trends in Higher Education were presented and discussed.

Nowadays the ICL conferences are a forum of the exchange of relevant trends and research results as well as the presentation of practical experiences in learning and Engineering Pedagogy. In this way we try to bridge the gap between ‘pure’ scientific research and the everyday work of educators.

This volume contains papers from the following Special Sessions:

· Special Session: Accessibility, Learning and Technologies

· Special Session: AI in HE from a Pedagogical Perspective

· Special Session: Entrepreneurship in Engineering Education 2025

· IPW Special Session: Interactive and Collaborative Learning with focus on Artificial Intelligence and Innovative Technologies in Engineering Education

· Special Session: Reimagining Engineering and Applied Curriculum for Transformation in Africa

· Special Session: To the Roots of Engineering Pedagogy

· Special Session: Virtual Laboratories and Makerspaces

Interested readership includes policy makers, academics, educators, researchers in pedagogy and learning theory, schoolteachers, learning industry, further and continuing education lecturers, etc.

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267,49 €
249,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783032188908
Medium: Buch
ISBN: 978-3-032-18890-8
Verlag: Springer
Erscheinungstermin: 11.05.2026
Sprache(n): Englisch
Auflage: Erscheinungsjahr 2026
Serie: Lecture Notes in Networks and Systems
Produktform: Kartoniert
Gewicht: 955 g
Seiten: 622
Format (B x H): 155 x 235 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)