

Hybrid Intelligence in Learning Analytics (HYBRID)

27th April 2026, 13:00–17:00, Bergen, as part of LAK'26 Conference

This volume contains the proceedings of the second Workshop on Hybrid Intelligence in Learning Analytics (HYBRID), held on 27th April 2026 in Bergen, Norway, as part of the pre-conference program of the 15th International Conference on Learning Analytics and Knowledge (LAK'26). Following the success of the inaugural workshop, which brought together 39 participants and resulted in seven peer-reviewed workshop papers, this second iteration continued to serve as a forum for advancing dialogue and fostering collaboration among researchers and practitioners interested in Hybrid Intelligence (HI) within learning analytics.

The goal of the second HYBRID workshop was to further develop shared understandings of Hybrid Intelligence and its role in learning analytics. Hybrid Intelligence refers to the integration of human and artificial intelligence through collaboration, mutual adaptation, and complementary strengths. Over the past year, the concept has gained growing attention across disciplines, particularly in learning sciences, learning analytics, and human–computer interaction. The workshop explored the mutual shaping of human–AI collaboration and learning, with a focus on how learning analytics can inform and enhance hybrid intelligence systems, and how hybrid intelligence can expand the scope and impact of learning analytics.

By bringing together a transdisciplinary group of learning scientists, software engineers, learning analytics researchers, and AI specialists, the workshop aimed to advance conceptual, methodological, and design perspectives on Hybrid Intelligence. Participants engaged in discussions of emerging research, shared ongoing work, and identified future directions for research and development at the intersection of human learning and intelligent systems.

There were four research showcases presented at the workshop. These contributions addressed complementary aspects of Hybrid Intelligence in learning environments, including approaches for tracing teacher reasoning and professional knowledge in AI-supported lesson design, methods for resolving coding ambiguities through LLM-assisted analytic workflows, investigations of technostress in multi-human–AI collaboration, and analyses of how assessment design shapes engagement structures in AI-assisted academic writing. All papers included in this volume were submitted for CEUR publication and accepted after review by the organizing committee.

- Surfacing Tacit Reasoning: A Methodological Approach to Tracing Teacher–AI Complementarity Through PID, TPACK, and SRL - *Alice Aaviksoo, Reet Kasepalu, Jörgen Ivar Sikk, and Kairit Tammets*
- Using RE-LLM Coding Uncertainty to Resolve Codebook Ambiguities: An Example of the CLARIFY Toolset and Workflow in Action - *Fanjie Li, Madison Lee Mason, Daniel T. Levin, and Alyssa Friend Wise*.
- Technostress in Hybrid Intelligence: A Mixed-Methods Study of Human-AI Teaming in Higher Education - *Boshra Najari, Nguyen-Ai-Thu Duong, Guoying Zhao, and Andy Nguyen*.

- How assessment rubrics reshape engagement networks in AI -assisted academic writing - *Nguyen Ai Thu Duong, Belle Dang, Luna Huynh, and Andy Nguyen*

The workshop began with a welcome and introduction outlining developments since the inaugural edition and the focus of the second HYBRID workshop. This was followed by invited talks offering perspectives on emerging challenges and opportunities in Hybrid Intelligence research. The core of the workshop featured four research showcases presenting ongoing work on human–AI collaboration in educational settings. Interactive discussions throughout the session supported the exchange of perspectives and contributed to identifying shared priorities and future directions for research in Hybrid Intelligence and learning analytics.

We would like to sincerely thank all authors and presenters for their contributions to the workshop, as well as all participants for their active engagement in discussions. We are especially grateful to our invited speakers and organizing committee members for their continued support and contributions to the workshop.

Organizing Committee

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