

Call For Articles from AERA SIG Technology Instruction Cognition & Learning (TICL) – Special Issue in the Journal of *Technology, Knowledge, & Learning* (TKNL)

The SIG TICL invites accepted presentations from the 2026 AERA annual meeting that are members (Invited authors are required to be members of the SIG) of the TICL SIG to be published in a special issue in the journal of *Technology, Knowledge, & Learning* (TKNL).

This collaborative special issue highlights innovative scholarship examining the relationships among technology, instruction, cognition, and learning across formal and informal educational contexts. The partnership between TICL and TKNL reflects a shared commitment to advancing research that not only explores emerging educational technologies but also investigates the cognitive, social, motivational, and instructional processes that shape meaningful learning experiences.

The special issue particularly welcomes work grounded in the learning sciences and related theoretical traditions that examine how learners think, interact, problem solve, self-regulate, construct knowledge, and develop expertise in technology-enhanced environments. Contributions may address how instructional strategies, learning design, artificial intelligence, immersive environments, analytics, and adaptive systems influence cognition, engagement, collaboration, and learning outcomes.

Technology, Knowledge, and Learning (TKNL) is a scholarly journal that emphasizes the growing interest in context-aware, adaptive, and personalized digital learning environments. Rapid technological developments have led to new research challenges focusing on digital learning, gamification, automated assessment, and learning analytics. These emerging systems aim to provide learning experiences delivered via online environments and mobile devices tailored to the educational needs, personal characteristics, and particular circumstances of the individual learner or a (massive) group of interconnected learners. Such diverse learning experiences spanning real-world and virtual contexts generate big data, which provides rich potential for in-depth intelligent analysis and adaptive feedback, as well as scaffolds when the learner needs them. We invite novel manuscripts that account for how these new technologies and systems reconfigure learning experiences, assessment methodologies, and future educational practices. *Technology, Knowledge, and Learning* also publishes guest-edited themed special issues linked to the emerging field of educational technology.

Topics for the special issue include, **but are not limited to**, research on:

- Artificial intelligence in education
- Artificial intelligence literacy and computational thinking education
- Human-AI collaboration for education
- Self-regulated/Self-directed learning
- Games-based learning and gamification
- Simulation and virtual reality in education
- Digital literacy and media literacy
- Technology-enhanced teaching and learning
- Educational multimedia and design
- Cognitive process and learning analytics
- Teaching approaches and strategies

- Distance learning and telepresence

Qualitative, quantitative, and mixed methods research articles (including systematic reviews) are welcome.

Submission Guidelines (due Monday, June 29th):

To notify us of your intent to submit, please complete the following form:

<https://forms.gle/btAbZZDGw4yrCA5u6>

Invited authors will submit full manuscripts through the journal system. When submitting, be sure to select the Special Conference Issue: **AERA TICL 2026** within the submission process. If this is not done, the manuscript cannot be forwarded to the handling Guest Editor.

Author Guidelines for articles in TKNL generally range from 6,000 - 8,000 words and use APA 7th edition standards. Additional guidelines can be found on the TKNL submission guidelines page:

<https://link.springer.com/journal/10758/submission-guidelines>

Please note that contributors will also be requested to serve as reviewers for this issue.

Preliminary Timeline:

- **Monday, June 29th:** Intention to submit to Special Issue using the <https://forms.gle/btAbZZDGw4yrCA5u6>
- **Monday, July 13th:** Invited authors are notified;
- **Monday, August 31st:** Full manuscript submitted through the Editorial Manager;
- **Monday, September 7th – September 28th:** Manuscripts peer reviewed;
- **Monday, October 5th:** Results of the reviews sent to authors;
- **Monday, October 26th:** Revised manuscripts submitted to the Editorial Manager;
- **Monday, November 2nd:** Additional revisions as needed;
- **Monday, November 9th:** Manuscripts sent for copyediting (absolute last day)*
- Special Issue published December 2026 (anticipated)

Special Issue Editors

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