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## Bibliography

# Research on Technology Tools to Support Learning

- Anjewierden, A., Gijlers, H., Kolloffel, B., Saab, N., & De Hoog, R. (2011). Examining the relation between domain-related communication and collaborative inquiry learning. *Computers & Education, 57*(2), 1741–1748.
- Barab, S., Ingram-Goble, A., Gresalfi, M., Arici, A., Siyahhan, S., Dodge, T., et al. (2008). Conceptual play spaces and the Quest Atlantis project. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 3* (pp. 190–197). International Society of the Learning Sciences.
- Barnett, M., & Houle, M. (2008). Using geographic information systems to support student learning through urban ecology. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 1* (pp. 93–100). International Society of the Learning Sciences.
- Bientzle, M., Wodzicki, K., Lingnau, A., & Cress, U. (2009). Enhancing pair learning of pupils with cognitive disabilities: Structural support with help of floor control. In *Proceedings of the 8th International Conference on Computer Supported Collaborative Learning-Volume 1* (pp. 517–521). International Society of the Learning Sciences.
- Bouck, E. C., & Bouck, M. K. (2008). Does it add up? Calculators as accommodations for sixth grade students with disabilities. *Journal of Special Education Technology, 23*(2), 17–32.
- Bouck, E. C., & Flanagan, S. (2009). Assistive technology and mathematics: What is there and where can we go in special education? *Journal of Special Education Technology, 24*(2), 17–31.
- Coleman, M. B., & Heller, K. W. (2010). The use of repeated reading with computer modeling to promote reading fluency with students who have physical disabilities. *Journal of Special Education Technology, 25*(1), 29–43.
- Corliss, S. B., & Spitulnik, M. W. (2008). Student and teacher regulation of learning in technology-enhanced science instruction. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 1* (pp. 167–174). International Society of the Learning Sciences.
- Cullen, J., Richards, S. B., & Lawless, F. C. (2008). Using software to enhance the writing skills of students with special needs. *Journal of Special Education Technology, 23*(2), 33–44.
- DeVane, B., & Durga, S. (2008). Problem-solving in history: Strategy games and schema. In *Proceeding of the 8th International Conference of the Learning Sciences-Volume 3* (pp. 20–22). International Society of the Learning Sciences.
- Diziol, D., Rummel, N., & Spada, H. (2009). Procedural and conceptual knowledge acquisition in mathematics: Where is collaboration helpful? In *Proceedings of the 8th International Conference on Computer Supported Collaborative Learning-Volume 1* (pp. 178–187). International Society of the Learning Sciences.

- Douglas, K. H., Ayres, K. M., Langone, J., Bell, V., & Meade, C. (2009). Expanding literacy for learners with intellectual disabilities: The role of supported eText. *Journal of Special Education Technology, 24*(3), 35–44.
- Enriquez, J., Ainsworth, S., Crook, C., O'Malley, C., Gelmini, G., & Buda, M. (2008). Turn-taking and mode-switching in grounding text-based communication in the classroom. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 3* (pp. 27–28). International Society of the Learning Sciences.
- Gray, S., Hmelo-Silver, C. E., Liu, L., Jordan, R., Jeong, H., Schwartz, R., et al. (2008). Learning with ecosystem models: A tale of two classrooms. In *Proceedings of the 8th International Conference of the Learning Sciences- Volume 1* (pp. 289–296). International Society of the Learning Sciences.
- Gresalfi, M., & Ingram-Goble, A. (2008). Designing for dispositions. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 1* (pp. 297–304). International Society of the Learning Sciences.
- Harrell, S. V., Abrahamson, D., Morgado, L., Esteves, M., Valcke, M., Vansteenbrugge, H., et al. (2008). Virtually there: Emerging designs for STEM teaching and learning in immersive online 3D microworlds. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 3* (pp. 383–391). International Society of the Learning Sciences.
- Hayes, T., & Ge, X. (2008). The effects of computer-supported collaborative learning on students' writing performance. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 1* (pp. 335–341). International Society of the Learning Sciences.
- Hickey, D. T., Barab, S. A., Ingram-Goble, A., & Zuiker, S. J. (2008). First things first: Design principles for worthwhile educational videogames. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 1* (pp. 350–357). International Society of the Learning Sciences.
- Izzo, M. V., Yurick, A., & McArrell, B. (2009). Supported eText: Effects of text-to-speech on access and achievement for high school students with disabilities. *Journal of Special Education Technology, 24*(3), 9–20.
- Jan, M., Matthews, J., Holden, C., & Martin, J. (2008). Designing an augmented reality game-based curriculum. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 3* (pp. 45–46). International Society of the Learning Sciences.
- Kafai, Y. B., & Wong, J. (2008). Real arguments about a virtual epidemic: Conversations and contestations in a tween gaming club. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 1* (pp. 414–421). International Society of the Learning Sciences.
- Ketelhut, D. J., Clarke, J., Nelson, B. C., & Dukas, G. (2008). Rethinking pedagogy: Using multi-user virtual environments to foster authentic science learning. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 1* (pp. 438–445). International Society of the Learning Sciences.
- Liu, L., & Hmelo-Silver, C. E. (2009). Collaborative scientific conceptual change: A framework for analyzing science learning. In *Proceedings of the 8th International Conference on Computer Supported Collaborative Learning-Volume 1* (pp. 194–198). International Society of the Learning Sciences.

- McElhane, K. W., & Linn, M. C. (2008). Impacts of students' experimentation using a dynamic visualization on their understanding of motion. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 2* (pp. 51–58). International Society of the Learning Sciences.
- Mechling, L. C., Gast, D. L., & Thompson, K. L. (2008). Comparison of the effects of smart board technology and flash card instruction on sight word recognition and observational learning. *Journal of Special Education Technology*, 23(1), 34–36.
- Medina, R., & Suthers, D. D. (2008). Bringing representational practice from log to light. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 2* (pp. 59–66). International Society of the Learning Sciences.
- Medina, R., Suthers, D., & Vatrapu, R. (2009). Inscriptions becoming representations. In C. O'Malley, P. Reimann, D. Suthers, & A. Dimitracopoulou (Eds.), *Computer supported collaborative learning practices: CSCL 2009 conference proceedings* (pp. 18–27). International Society of the Learning Sciences.
- Moher, T. (2008). Learning and participation in a persistent whole-classroom seismology simulation. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 2* (pp. 82–90). International Society of the Learning Sciences.
- Pathak, S. A., Kim, B., Jacobson, M. J., & Zhang, B. (2009). Failures and successes in collaborative inquiry: Learning the physics of electricity with agent-based models. In *Proceedings of the 8th International Conference on Computer Supported Collaborative Learning-Volume 1* (pp. 199–203). International Society of the Learning Sciences.
- Peppler, K. A., & Kafai, Y. B. (2008). New literacies and the learning sciences: A framework for understanding youths' media arts practices. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 2* (pp. 188–195). International Society of the Learning Sciences.
- Rafanan, K., Roschelle, J., Bhanot, R., Gorges, T., & Penuel, W. R. (2008). Measuring mathematics discourse in technology-supported collaborative activities. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 3* (pp. 117–118). International Society of the Learning Sciences.
- Rao, K., Dowrick, P. W., Yuen, J. W. L., & Boisvert, P. C. (2009). Writing in a multimedia environment: Pilot outcomes for high school students in special education. *Journal of Special Education Technology*, 24(1), 27–38.
- Roschelle, J., Scechtman, N., Hegedus, S., Pierson, J., McLeese, M., & Tatar, D. (2008). Cognitive complexity in mathematics teaching and learning: Emerging findings in a large-scale experiment. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 2* (pp. 271–278). International Society of the Learning Sciences.
- Roschelle, J., Rafanan, K., Estrella, G., Nussbaum, M., & Claro, S. (2009). From handheld collaborative tool to effective classroom module: Embedding CSCL in a broader design framework. In *Proceedings of the 8th International Conference on Computer Supported Collaborative Learning-Volume 1* (pp. 395–403). International Society of the Learning Sciences.
- Sengupta, P., & Wilensky, U. (2008). On learning electricity with multi-agent based computational models (NIELS). In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 3* (pp. 123–124). International Society of the Learning Sciences.

- Sipitakiat, A., & Cavallo, D. P. (2008). Giving the head a hand: Constructing a microworld to build relationships with ideas in balance control. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 2* (pp. 335–342). International Society of the Learning Sciences.
- Stahl, G., & Çakir, M. P. (2008). Integrating synchronous and asynchronous support for group cognition in online collaborative learning. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 2* (pp. 351–358). International Society of the Learning Sciences.
- Tartaro, A., & Cassell, J. (2008). Playing with virtual peers: Bootstrapping contingent discourse in children with autism. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 2* (pp. 382–389). International Society of the Learning Sciences.
- Van De Sande, C., & Leinhardt, G. (2008). The Good Samaritan effect: A lens for understanding patterns of participation. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 2* (pp. 430–437). International Society of the Learning Sciences.
- Van De Sande, C. (2009). Grassroots open, online, calculus help forums. In *Proceedings of the 8th International Conference on Computer Supported Collaborative Learning-Volume 1* (pp. 43–47). International Society of the Learning Sciences.
- Yang, Y., Crook, C., & O'Malley, C. (2008). Cutting through layers of the BBC Onion street: Children's use of homework message boards out-of-school. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 2* (pp. 467–474). International Society of the Learning Sciences.
- Zhou, N., Zemel, A., & Stahl, G. (2008). Questioning and responding in online small groups engaged in collaborative math problem solving. In *Proceedings of the 8th International Conference of the Learning Sciences-Volume 2* (pp. 507–515). International Society of the Learning Sciences.