

Publication List (sorted by date)

1. Klein, S., Lehner, L., Nigsch, K., **Röpke, R.** (2026): From Pantomime to Bitomime — A CS Unplugged Approach to Binary Encoding & Decoding in Primary Education. In: Creative Mathematical Sciences Communication (CMSC 2026). Springer, Cham. [accepted for publication]
2. Klein, S., **Röpke, R.** (2026): Toward the Alignment of Understandability, Reasoning, and Explainability in TEL. In: Mindful TEL: Learning Technologies Shaped with Intention, ECTEL 2026, Valencia, Spain, 14-18 September, 2026, Proceedings. Springer International Publishing, Cham, Switzerland. [accepted for publication]
3. Reinhard, S., **Röpke, R.** (2026): Enhancing the First-Year Student Experience with Curriculum Analytics: A Scoping Review. In: 2026 IEEE Frontiers in Education (FIE). IEEE, Paphos, Cyprus. [accepted for publication]
4. Reinhard, S., **Röpke, R.** (2026): Why Study Entry Phases Deserve Closer Attention: Early Insights and a Curriculum Analytics Research Agenda. In: Fachtagung Bildungstechnologien (DELFI). Gesellschaft für Informatik e.V., Bonn, Germany. [accepted for publication]
5. Leonhardt, T., Baberowski, D., **Röpke, R.**, Marx, E., Witt, C., Bergner, N. (2026): One Packet, Multiple Pathways: An Orchestratable Learning System for Internet Communication. In: Fachtagung Bildungstechnologien (DELFI). Gesellschaft für Informatik e.V., Bonn, Germany. [accepted for publication]
6. Milchram, R., Reinhard, S., **Röpke, R.** (2026): Time Well Spent: Design and Implementation of a Gamified Study Time Tracking Application. In: Fachtagung Bildungstechnologien (DELFI). Gesellschaft für Informatik e.V., Bonn, Germany. [accepted for publication]
7. Lehner, L., Reinhard, S., Landman, M., **Röpke, R.** (2026): Turning Students into Neurons — Evaluating an Embodied CS Unplugged Learning Activity on Neural Networks. In: The 20th WiPSCE Conference on Primary and Secondary Computing Education Research (WiPSCE 2026), March 11–13, 2026, Aachen, Germany. Association for Computing Machinery, New York, NY, USA. [accepted for publication]
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9. Reinhard, S., **Röpke, R.** (2026): Extracting Curriculum Rules: Formal Modelling of the Study Entry and Orientation Phase. In: Proceedings of the 19th International Conference on Educational Data Mining. International Educational Data Mining Society, Seoul, South Korea.
<https://doi.org/10.5281/ZENODO.21039746>
10. Fischer, O., **Röpke, R.**, Tellioglu, H., Weinlich, W. (2026): Edularps in Computer Science Education and Digital Literacy Education? Exploring the Potential of a Novel Educational Method through a Mixed-Methods Approach including Co-Design Research. In: Designing Interactive Systems Conference (DIS '26), June 13–17, 2026, Singapore, Singapore. ACM, New York, NY, USA, 15 pages. <https://doi.org/10.1145/3800645.3813026>
11. Breuer, T., **Röpke, R.** (2026): Incorporating Recommended Course Prerequisites into Similarity-based Course Recommender Systems for Higher Education. In: Proceedings of the 18th International Conference on Computer Supported Education (CSEDU), May 18-20, 2026, Benidorm, Spain. SciTePress, Setúbal, Portugal.
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13. Savran, A., **Röpke, R.**, Musilek, M., Tellioglu, H., Laven, R. (2026): Computational Thinking & AestheticArtistic-Engagement through tinkering: A case study in first grade of primary school. In: Abstract Book of the 4th Global Conference on Innovations in Education (Vol. 3, No. 1), ProudPen, London, UK.
<https://proudpen.com/proceedings/index.php/eduglobalconf/article/view/1161>
14. Salmen, F., **Röpke, R.**, Schroeder, U. (2025): Explorables: Evaluating a Concept for Remixable Interactive Learning Resources. In: Proceedings of the CELDA 2025, pp. (to be published)
15. Salmen, F., Görzen, S., **Röpke, R.**, Schroeder, U. (2025): Packaged Widgets: Evaluating a Concept for Fair Educational Technology Components. In: CELDA 2025 (to be published)

16. Trippel, M., **Röpke, R.** (2025): Developing a Graph-based Visualization of Elective Courses to Support Course Selection in Higher Education. In: 23. Fachtagung Bildungstechnologien (DELFI 2025). pp. 89-95. Gesellschaft für Informatik e.V., Bonn. https://doi.org/10.18420/delfi2025_09
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19. Schäfer, R., Preuschoff, P., Hahn, S., **Röpke, R.**, Borchers, J. (2025): Investigating User Preference on Visual Countermeasures Against Deceptive Patterns. In: Mensch und Computer 2025 Workshopband (MuC). Gesellschaft für Informatik e.V., Bonn. https://doi.org/10.1007/978-3-031-78269-5_18
20. Mueller, A., Konert, J., **Röpke, R.**, Genc, Ö., Bellhäuser, H. (2025): Group formation based on extraversion and prior knowledge: a randomized controlled study in higher education online. In: Journal of Computing in Higher Education 37 (3), 780–808. <https://doi.org/10.1007/s12528-024-09406-4>
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22. Ehlenz, M., **Röpke, R.**: A Human-centered Approach on Collecting Learning Analytics Insights in GitLab. In: Companion Proceedings of the 14th International Conference on Learning Analytics & Knowledge (LAK25). SoLAR (2025).
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25. Risley, K., **Röpke, R.**: A Growing Community of Practice on Games and Learning: A Literature Review with Bibliometric and Thematic Analyses. In: Schönbohm, A., et al. (eds.) Games and Learning Alliance (GALA 2024). Springer, Cham (2024). https://doi.org/10.1007/978-3-031-78269-5_1
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27. Heinemann, B., Görzen, S., **Röpke, R.**, Ehlenz, M.: Nuts & Bolts: Bildungstechnologien offen und transparent gestalten. Die Technik hinter den Kulissen der digitalen Bildungsforschung. In: N. Kiesler & S. Schulz (Eds.), Proceedings of DELFI Workshops 2024 (pp. 111–118). <https://doi.org/10.18420/delfi2024-ws-15>
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43. Peess, P., Bocker, A., **Roepke, R.**, Schroeder, U.: A Grammar and Parameterization-Based Generator for Python Programming Exercises. In: Proceedings of the Sixth Workshop "Automatische Bewertung von Programmieraufgaben" (ABP 2023). pp. 43-50. Gesellschaft für Informatik e.V., Bonn (2023). <https://doi.org/10.18420/abp2023-6>
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