Publication List

René Röpke

TU Wien

Statistics

- PhD thesis: 1
- Journal articles: 11
- Conference papers: 82
- Books: 5
- Book chapters: 2
- Editorials: 1
- Datasets: 7
- Media Artifacts: 3

Publications

Thesis

[1] **René Röpke**. "Extending Game-Based Anti-Phishing Education Using Personalization: Design and Implementation of a Framework for Personalized Learning Game Content in Anti-Phishing Learning Games". Doctoral Thesis. Aachen: RWTH Aachen University, 2023. 222 pp. DOI: 10.18154/RWTH-2023-04991.

Journal Articles

[2] Adrienne Mueller, Johannes Konert, **René Röpke**, Ömer Genc, Henrik Bellhäuser. "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 (2025), pp. 780–808. DOI: 10.1007/s12528-024-09406-4.

[3] **Rene Roepke**, Sven Judel, Ulrik Schroeder. "Study Path Analyses for Quality Assurance and Support of Study Planning". In: *Informatik Spektrum* (2024), pp. 97–104. DOI: 10.1007/s00287-024-01574-y.

[4] Adrienne Mueller, Anna Goeddeke, Petra Kneip, Johannes Konert, **René Röpke**, Henrik Bellhäuser. "Experiment on Extraversion Distribution in Groups through a Group Formation Algorithm". In: *Computers and Education Open* 6 (2024), p. 100181. DOI: 10.1016/j.caeo.2024.100181.

[5] Adrienne Mara Müller, **René Röpke**, Johannes Konert, Henrik Bellhäuser. "Investigating Group Formation: An Experiment on the Distribution of Extraversion in Educational Settings". In: *Acta Psychologica* 242 (2024), p. 104111. DOI: 10.1016/j.actpsy.2023.104111.

[6] **Rene Roepke**, Vincent Drury, Ulrike Meyer, Ulrik Schroeder. "Exploring and Evaluating Different Game Mechanics for Anti-Phishing Learning Games". In: *International Journal of Serious Games* 9.3 (3 2022), pp. 23–41. DOI: 10.17083/ijsg.v9i3.501.

[7] Nadja Zaric, **Rene Roepke**, Vlatko Lukarov, Ulrik Schroeder. "Gamified Learning Theory: The Moderating Role of Learners' Learning Tendencies". In: *International Journal of Serious Games* 8.3 (2021), pp. 71–91. DOI: 10.17083/ijsg.v8i3.438.

[8] Adrienne Müller, Henrik Bellhäuser, Johannes Konert, **René Röpke**. "Effects of Group Formation on Student Satisfaction and Performance: A Field Experiment". In: *Small Group Research* (2021). DOI: 10.1177/1046496420988592.

[9] **René Röpke**. "Spielerisch sichere Teilhabe: Ein Review spiel-basierter Lernanwendungen über IT-Sicherheit und Sicherheitspraktiken". In: *MedienPädagogik: Zeitschrift für Theorie und Praxis der Medienbildung* 36 (Teilhabe 2019), pp. 170–185. DOI: 10.21240/mpaed/36/2019.11.21.X.

[10] Dimitra Tsovaltzi, Armin Weinberger, Lara Schmitt, Henrik Bellhäuser, Adrienne Müller, Johannes Konert, **René Röpke**, Elise Eshuis, Tessa Eysink, Melanie Erkens. "Group Formation in the Digital Age: Relevant Characteristics, Their Diagnosis, and Combination for Productive Collaboration". In: (2019). URL: https://repository.isls.org//handle/1/4496.

[11] Henrik Bellhäuser, Johannes Konert, Adrienne Müller, **René Röpke**. "Who is the Perfect Match?" In: *i-com* 17.1 (2018), pp. 65–77. DOI: 10.1515/icom-2018-0004.

[12] Ilona Cwielong, Matthias Ehlenz, **René Röpke**. "Die Macht der Anerkennung im digitalen Raum: Die Transformation von Anerkennung und ihre Schattenseiten im digitalen Zeitalter". In: *Digitale Transformation im Diskurs: Kritische Perspektiven auf Entwicklungen und Tendenzen im Zeitalter des Digitalen* (2017), pp. 114–125. DOI: 10.18445/20171213-075011-0.

Conference Papers

[13] Selina Reinhard, **René Röpke**. "Enhancing the First-Year Student Experience with Curriculum Analytics: A Scoping Review". In: *IEEE Frontiers in Education Conference (FIE)*. 2026 IEEE Frontiers in Education Conference (FIE). Paphos, Cyprus: IEEE, 2026.

[14] Sonja Klein, **René Röpke**. "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. European Conference on Technology Enhanced Learning (Valencia, Spain). Cham, Switzerland: Springer, 2026.

[15] Thiemo Leonhardt, David Baberowski, **René Röpke**, Erik Marx, Clemens Witt, Nadine Bergner. "One Packet, Multiple Pathways: An Orchestratable Learning System for Internet Communication". In: *24. Fachtagung Bildungstechnologien (DELFI)*. 24. Fachtagung Bildungstechnologien (Potsdam, Germany). Bonn, Germany: Gesellschaft für Informatik e.V., 2026, pp. 399–403. DOI: 10.18420/delfi2026_39.

[16] Rafael Milchram, Selina Reinhard, **René Röpke**. "Time Well Spent: Design and Implementation of a Gamified Study Time Tracking Application". In: *24. Fachtagung Bildungstechnologien (DELFI)*. 24. Fachtagung Bildungstechnologien (Potsdam, Germany). Bonn, Germany: Gesellschaft für Informatik e.V., 2026, pp. 103–110. DOI: 10.18420/delfi2026_10.

[17] Selina Reinhard, **René Röpke**. "Why Study Entry Phases Deserve Closer Attention: Early Insights and a Curriculum Analytics Research Agenda". In: *24. Fachtagung Bildungstechnologien (DELFI)*. 24. Fachtagung Bildungstechnologien (Potsdam, Germany). Bonn, Germany: Gesellschaft für Informatik e.V., 2026, pp. 417–421. DOI: 10.18420/delfi2026_42.

[18] Selina Reinhard, Tom Breuer, **René Röpke**. "Extracting Curriculum Rules: Formal Modelling of the Study Entry and Orientation Phase". In: *Proceedings of the 19th International Conference on Educational Data Mining*. International Conference on Educational Data Mining. Seoul, South Korea: International Educational Data Mining Society, 2026. DOI: 10.5281/ZENODO.21039746.

[19] Olivia Fischer, **René Röpke**, Hilda Tellioğlu, Wolfgang Weinlich. "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: *Proceedings of the 2026 Designing Interactive Systems Conference*. DIS '26. New York, NY, USA: Association for Computing Machinery, 2026, pp. 1041–1055. DOI: 10.1145/3800645.3813026.

[20] Tom Breuer, **René Röpke**. "Incorporating Recommended Course Prerequisites into Similarity-Based Course Recommender Systems for Higher Education:" in: *Proceedings of the 18th International Conference on Computer Supported Education*. 18th International Conference on Computer Supported Education. Benidorm, Spain: SCITEPRESS - Science and Technology Publications, 2026, pp. 213–220. DOI: 10.5220/0014665100004021.

[21] Olivia Fischer, **René Röpke**, Hilda Tellioğlu. "Let's Create Our Own World! Fostering Cooperation, Creativity, Empowerment and Intrinsic Motivation in Design Thinking Processes through Edularp Co-Design". In: *Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems*. CHI 2026: CHI Conference on Human Factors in Computing Systems (Barcelona, Spain). New York, NY, USA: Association for Computing Machinery, 2026, pp. 1–18. DOI: 10.1145/3772318.3790939.

[22] Michael Eickmeyer, Oskar Seierl, Martina Landman, **René Röpke**. "Improving Algorithmic Understanding via Path-finding Algorithms in Unplugged/Plugged Hybrid Workshops". In: *Proceedings of the 20th WiPSCE Conference on Primary and Secondary Computing Education Research*. The 20th WiPSCE Conference on Primary and Secondary Computing Education Research (Aachen). New York, NY, USA: Association for Computing Machinery, 2026. DOI: 10.1145/3801749.3801774.

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[24] Anastasiya Savran, **René Röpke**, Monika Musilek, Hilda Tellioğlu, Rolf Laven. "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*. 4th Global Conference on Innovations in Education. London, UK: ProudPen, 2026, pp. 5–5. URL: https://proudpen.com/proceedings/index.php/eduglobalconf/article/view/1161.

[25] Frederic Salmen, **René Röpke**, Ulrik Schroeder. "Explorables: Evaluating a Concept for Remixable Interactive Learning Resources". In: *Proceedings of the CELDA 2025*. International Conference on Cognition and Exploratory Learning in the Digital. Porto, Portugal: IADIS, 2025, pp. 93–102. DOI: 10.33965/CELDA2025_202509L011.

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[27] Lubna Ali, Zongxin Liu, **René Röpke**, Ulrik Schroeder. "Generating AI Images for the OER Conversion Tool "ConvOERter"". In: *Two Decades of TEL. From Lessons Learnt to Challenges Ahead: 20th European Conference on Technology Enhanced Learning, EC-TEL 2025, Newcastle upon Tyne and Durham, UK, September 15–19, 2025, Proceedings, Part II*. Berlin, Heidelberg: Springer-Verlag, 2025, pp. 95–100. DOI: 10.1007/978-3-032-03873-9_7.

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[29] David Baberowski, Thiemo Leonhardt, **René Röpke**, Sila Irmak. "Pack-a-Capsule – Extending a VR Serious Game on Network Communications to Enable Collaborative Gameplay". In: *23. Fachtagung Bildungstechnologien (DELFI 2025)*. Bonn: Gesellschaft für Informatik e.V., 2025, pp. 363–368. DOI: 10.18420/delfi2025_42.

[30] Marie Trippel, **René Röpke**. "Developing a Graph-based Visualization of Elective Courses to Support Course Selection in Higher Education". In: *23. Fachtagung Bildungstechnologien (DELFI 2025)*. Bonn: Gesellschaft für Informatik e.V., 2025, pp. 89–95. DOI: 10.18420/delfi2025_09.

[31] René Schäfer, Paul Miles Preuschoff, Sophie Hahn, **René Röpke**, Jan Borchers. "Investigating User Preference on Visual Countermeasures Against Deceptive Patterns". In: *Mensch Und Computer 2025-Workshopband*. Bonn: Gesellschaft für Informatik e.V., 2025, p. 6. DOI: 10.18420/MUC2025-MCI-WIP-292.

[32] Matthias Ehlenz, **Rene Roepke**. "A Human-centered Approach on Collecting Learning Analytics Insights in GitLab". In: *Companion Proceedings of the 15th International Conference on Learning Analytics & Knowledge (LAK25)*. International Conference on Learning Analytics & Knowledge. Dublin, Ireland: SoLAR, 2025, pp. 9–12. URL: https://www.solaresearch.org/core/lak25-companion-proceedings/ (visited on 03/18/2025).

[33] Johannes Wagner-Schirrmeister, **Rene Roepke**, Tobias Johnen, Rike Carpantier, Ulrik Schroeder, Maren Scheffel. "On the Design and Evaluation of an Interactive Study Planning Tool". In: *Companion Proceedings of the 15th International Conference on Learning Analytics & Knowledge (LAK25)*. International Conference on Learning Analytics & Knowledge. Dublin, Ireland: SoLAR, 2025, pp. 245–247. URL: https://www.solaresearch.org/core/lak25-companion-proceedings/ (visited on 03/18/2025).

[34] Johannes Wagner-Schirrmeister, **Rene Roepke**, Tobias Johnen, Rike Carpantier, Ulrik Schroeder, Maren Scheffel. "Interactive Long-Term Study Planning for Individual Student Support, Leveraging Process Mining and AI". In: *Companion Proceedings of the 15th International Conference on Learning Analytics & Knowledge (LAK25)*. International Conference on Learning Analytics & Knowledge. Dublin, Ireland: SoLAR, 2025, pp. 299–299. URL: https://www.solaresearch.org/core/lak25-companion-proceedings/ (visited on 03/18/2025).

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[38] Birte Heinemann, Sergej Görzen, **René Röpke**, Matthias Ehlenz. "Nuts & Bolts: Bildungstechnologien offen und transparent gestalten. Die Technik hinter den Kulissen der digitalen Bildungsforschung". In: *Proceedings of DELFI Workshops 2024*. Bonn: Gesellschaft für Informatik e.V., 2024, pp. 111–117. DOI: 10.18420/delfi2024-ws-15.

[39] Sergej Görzen, **René Röpke**, Ulrik Schroeder. "BuddyAnalytics: A Dashboard and Reporting Tool for Study Program Analysis and Student Cohort Monitoring". In: *Proceedings of DELFI 2024*. Bonn: Gesellschaft für Informatik e.V., 2024, pp. 527–531. DOI: 10.18420/delfi2024_53.

[40] Natalie Kiesler, **René Röpke**, Daniel Schiffner, Sandra Schulz, Sven Strickroth, Matthias Ehlenz, Birte Heinemann, Arno Wilhelm-Weidner. "Towards Open Science at the DELFI Conference". In: *Proceedings of DELFI 2024*. Bonn: Gesellschaft für Informatik e.V., 2024, pp. 251–265. DOI: 10.18420/delfi2024_22.

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[42] Johannes Wagner-Schirrmeister, **Rene Roepke**, Rike Carpantier, Maren Scheffel. "Towards the Design of an Interactive Study Planning Tool Integrating AI-based Feedback and Learning Analytics". In: *Companion Proceedings of the 14th International Conference on Learning Analytics & Knowledge (LAK24)*. 14th International Conference on Learning Analytics & Knowledge. SoLAR, 2024, pp. 172–174. URL: https://www.solaresearch.org/core/lak24-companion-proceedings/.

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[45] Sven Judel, **René Röpke**. "KI-gestützte Studienplanung und Kohortenverfolgung". In: *Workshopband der 21. Fachtagung Bildungstechnologien (DELFI)*. 21. Fachtagung Bildungstechnologien (DELFI) (Aachen, Germany). Bonn, Germany: Gesellschaft für Informatik e.V., 2023. DOI: 10.18420/WSDELFI2023-50.

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[51] Miriam Wagner, Hayyan Helal, **Rene Roepke**, Sven Judel, Jens Doveren, Sergej Goerzen, Pouya Soudmand, Gerhard Lakemeyer, Ulrik Schroeder, Wil M. P. Van Der Aalst. "A Combined Approach of Process Mining and Rule-Based AI for Study Planning and Monitoring in Higher Education". In: *Process Mining Workshops*. Vol. 468. Cham: Springer Nature Switzerland, 2023, pp. 513–525. DOI: 10.1007/978-3-031-27815-0_37.

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[53] **Rene Roepke**, Vincent Drury, Philipp Peess, Tobias Johnen, Ulrike Meyer, Ulrik Schroeder. "More Than Meets the Eye - An Anti-Phishing Learning Game with a Focus on Phishing Emails". In: *Games and Learning Alliance* (Tampere, Finland). Vol. 13647. Cham, Switzerland: Springer International Publishing, 2022, pp. 118–126. DOI: 10.1007/978-3-031-22124-8_12.

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(IGAT)". In: *Addressing Global Challenges and Quality Education*. Lecture Notes in Computer Science. Cham: Springer International Publishing, 2020, pp. 461–466. DOI: 10.1007/978-3-030-57717-9_45.

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