

Instructional Technology & JKU COOL Lab – Publications

as from January 2025

Hinterplattner Sara

PhD Thesis

Hinterplattner, S. (2020). The Waiting of Gifted Students and its Impact on Talent Development Projects. [Doctoral Thesis, Johannes Kepler University]. Linz.

<https://epub.jku.at/obvulihs/content/titleinfo/5574926>

Journal Papers

Jöstl, G., Hinterplattner, S., & Rogl, S. (2023). Talent Development Programs for Secondary Schools: Implementation and Evaluation of a Model School. *Education Sciences*, 13(12), 1172.

<https://doi.org/10.3390/educsci13121172>

Schmidthaler, E., Schalk, M., Schmollmüller, M., Hinterplattner, S., Hörmann, C., Rottenhofer, M., Andrijc, B., Lavicza, Z., & Sabitzer, B. (2023). The Interdisciplinary Implementation of Poly-Universe to Promote Computational Thinking: Teaching Examples from Biological, Physical, and Digital Education in Austrian Secondary Schools. *Frontiers in Psychology*, Volume 14.

<https://www.frontiersin.org/articles/10.3389/fpsyg.2023.1139884/full>

Hinterplattner, S., Wolfensberger, M., & Lavicza, Z. (2022). Honors Students' Experiences and Coping Strategies for Waiting Time in Secondary School and at University. *Journal for the Education of the Gifted*, 45(1), 84-107. <https://doi.org/10.1177/01623532211063945>

Hinterplattner, S., & Sabitzer, B. (2022). Potentials and Challenges in new Honors Programs: Honors Education in Austria. *Honors Education around the World*. Cambridge Scholar Publishing.

<https://tinyurl.com/4nan4y2m>

Hörmann, C., Hinterplattner, S., & Sabitzer, B. (2021). SARS-COVID-19 – Eine Chance für die Bildungslandschaft? Untersuchung zur Umsetzung der „Digitalen Grundbildung“ während des Lockdowns. *Medienimpulse*, 59(3), 33 Seiten. <https://doi.org/10.21243/mi-03-21-15>

Hinterplattner, S., Wolfensberger, M., Lavicza, Z. (2020). Wenn begabte Schüler*innen warten. Erfahrungen begabter Schüler*innen im Regelunterricht. *Begabungsförderung, Leistungsentwicklung, Bildungsgerechtigkeit – für alle! Beiträge aus der Begabungsforschung*. 429-439. Waxmann. <https://tinyurl.com/2zzadn4v>

Proceedings

Hinterplattner, S., Schmidthaler, E., Skogø, J., Leitner, S., & Sabitzer, B. (2024). Once Upon a Time there was an Ozobot: Storytelling with Educational Robots. *Proceedings of the 15th International Conference on Education Technology and Computers (ICETC '23)*, 120–126. Association for Computing Machinery, New York, NY, USA. <https://doi.org/10.1145/3629296.3629315>

Schalk, M., Hinterplattner, S., & Sabitzer, B. (2023). STEM in Elementary Teacher Training in Austria. *15th International Conference on Computer Supported Education (CSEDU 2023)*. <http://dx.doi.org/10.5220/0011858600003470>

Hinterplattner, S. (2023). Students' Perceptions of Computer Science and the Role of Gender. *Computer Supported Education. CSEDU 2022. Communications in Computer and Information Science*, Volume 1817. Springer, Cham. https://doi.org/10.1007/978-3-031-40501-3_6

Hinterplattner, S. (2022). Students' Perceptions of Computer Science and the Role of Gender. *Computer Supported Education. 14th International Conference on Computer Supported Education (CSEDU 2022)*. http://dx.doi.org/10.1007/978-3-031-40501-3_6

Hinterplattner, S., Unterweger, M., Groher, I., & Sabitzer, B. (2022). Exploring Students' Experiences and Perceptions of Computer Science: A Survey of Austrian Secondary Schools. *14th International Conference on Computer Supported Education (CSEDU 2022)*. <http://dx.doi.org/10.5220/0011049000003182>

Schalk, M., Schmidthaler, E., Hinterplattner, S., & Sabitzer, B. (2022). Turning Pages, Scrolling or Swiping: An Evaluation of Interactive Picture Book Applications for Elementary School, *EDULEARN22 Proceedings*, 4144-4150. <https://doi.org/10.21125/edulearn.2022.0994>

Wolfschwenger, P., Hinterplattner, S., Demarle-Meusel, H., Albaner, B., & Sabitzer, B. (2021). Learning under Lockdown: The Conditions in Austria in a Global Context. *Proceedings of the 13th International Conference on Computer Supported Education (CSEDU)*, Volume 1, 648–656. SCITEPRESS. <https://doi.org/10.5220/0010492506480656>

Hinterplattner, S., Sabitzer, B., & Skogø, J.S. (2021). Working on Interdisciplinary Projects to Strengthen Creative Computational Thinking and to Support Talent Development. In: Lane, H.C., Zvacek, S., Uhomobhi, J. (eds) *Computer Supported Education. CSEDU 2020. Communications in Computer and Information Science*, Volume 1473. Springer, Cham. https://doi.org/10.1007/978-3-030-86439-2_17

Rottenhofer, M., Otto, K., Sabitzer, B., & Hinterplattner, S. (2020). Modeling as Brain-Based and Creative Learning Strategy, *INTED2020 Proceedings*, 5186-5191. <https://doi.org/10.21125/inted.2020.1402>

Kröhn, C., Hinterplattner, S., & Sabitzer, B. (2020). Towards an Implementation of a Peer-Learning and Peer-Teaching Group in Programming. *Proceedings of the 2020 ACM Conference on Innovation and Technology in Computer Science Education (ITICSE '20)*, 559. Association for Computing Machinery, New York, NY, USA. <https://doi.org/10.1145/3341525.3393971>

Hinterplattner, S., Sabitzer, B., Rottenhofer, M., & Demarle-Meusel, H. (2020). The Children's Congress: Creative Computational Thinking & STEM-Education, *INTED2020 Proceedings*, 5106-5111. <https://doi.org/10.21125/inted.2020.1391>

Books and Chapters

Rogl, S., Resch, C., Bögl, E., Gürtler, B., Hinterplattner, S., & Klug, J. (2024). *Begabung verändert - förderliche Lernwelten erforschen, gestalten, implementieren*. Waxmann. <http://dx.doi.org/10.31244/9783830996699>

Hörmann Corinna (formerly Kröhn)

Journal Papers

Hörmann, C., Kuka, L., Fraser, A., & Sabitzer, B. (2025). Artificial and Human Intelligence: Collaborative Dynamics in Academic Publishing. *Springer Communications in Computer and Information Science*. In press.

Grossauer, B., Hörmann, C., Schmidthaler, E., & Sabitzer, B. (2024). Lobus Frontalis und ChatGPT – Chatbots als Lernassistent für Studierende des gehobenen medizinisch-technischen Dienstes. *Zeitschrift für Hochschulentwicklung (ZFHE)*, Volume December 2024, 57–75. <https://doi.org/10.21240/zfhe/19-4/04>

Hörmann, C., Kuka, L., Schmidthaler, E., & Sabitzer, B. (2024). Digital Education Training for Teachers – Learnings from Austria. *Frontiers in Education Journal*, Volume December 2024. <https://doi.org/10.3389/feduc.2024.1490123>

Kuka, L., Hörmann, C., & Sabitzer, B. (2024). Digitaler Dialog, Menschliche Gestaltung - Eine virtuelle Kunstgalerie als Schule der Vernunft: Wie aufgeklärte Medienpädagogik mit AI Literacy verknüpft werden kann. *Medienimpulse*, 62(1). <https://doi.org/10.21243/mi-01-24-22>

Schmidthaler, E., Schmollmüller, M., Wimmer-Furian, P., Hörmann, C., Rottenhofer, M., & Sabitzer, B. (2023). Exploring Gender Stereotypes and Sexism in Learning Apps: Insights from Austrian Secondary School Students. *American Journal of Applied Psychology*, 12(5), 111-128, Volume September 2023. <https://doi.org/10.11648/j.ajap.20231205.11>

Schmidthaler, E., Schalk, M., Schmollmüller, M., Hinterplattner, S., Hörmann, C., Rottenhofer, M., Andrijc, B., Lavicza, Z., & Sabitzer, B. (2023). The Interdisciplinary Implementation of Poly-Universe to Promote Computational Thinking: Teaching Examples from Biological, Physical, and Digital Education in Austrian Secondary Schools. *Frontiers in Psychology*, Volume 14.

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Hinterplattner, S., Skogø, J., Kröhn, C., & Sabitzer, B. (2020). The Children’s Congress: A Benefit To All Levels Of Schooling By Strengthening Computational Thinking. *International Journal of Learning and Teaching*, Vol. 6, Nr. 1, 2020. <https://tinyurl.com/bdcrt4>

Proceedings

Hörmann, C., Schmidthaler, E., Unterweger, M., Kuka, L., & Sabitzer, B. (2025). Teacher Education at a Crossroads: Computer Science and Digital Education in a Blended Curriculum. In review process.

Unterweger, M., Hörmann, C., Kuka, L., & Sabitzer, B. (2025). The Importance of Digital and Computer Science Education in Primary Schools: Perspectives from Educators. In review process.

Kuka, L., Hörmann, C., & Sabitzer, B. (2025). A Young Researcher’s Dual Lens: A Twofold Autoethnographic Exploration of Generative AI in the Realms of Doing Research and Teaching Computer Science and Media Design Education. *International Conference on Computer Supported Education*, Porto, Portugal. In press.

Hinterplattner, S., Schmidthaler, E., Schwinghammer, M., Skogoe, J., & Hörmann, C. (2025). The Integration of Digital Education within an Ozobot Pilot Project: Austrian Teacher Perspectives and Practices. *International Conference on Computer Supported Education*, Porto, Portugal. In press.

Hörmann, C., Kuka, L., & Sabitzer, B. (2025). Reimagining Computer Science: Developing Austria’s Upper Secondary Computer Science Curriculum (Practical Report). *International Technology, Education and Development Conference*, Valencia, Spain. In press.

Fraser, A., Hörmann, C., Birnkammerer, H., Kuka, L., & Sabitzer, B. (2024). Hands-On Teacher Support through OER-Kitchen: Building a Collaborative Community. *17th annual International Conference of Education, Research and Innovation*, Seville, Spain, 11-13 November, 2024.

<https://doi.org/10.21125/iceri.2024.1942>

Fraser, A., Hörmann, C., Kuka, L., & Sabitzer, B. (2024). German Teacher Support Platforms: The impact of OER, AI and Collaborative Communities. *17th annual International Conference of Education, Research and Innovation*, Seville, Spain, 11-13 November, 2024.

<https://doi.org/10.21125/iceri.2024.1921>

Pasterk, S., Hörmann, C., & Bollin, A. (2024). DigiTeaMap: A Digital Map to Represent Addressed Competencies in Digital and Computer Science Education in Austria. *International Conference on Informatics in Schools (ISSEP)*, Budapest, October, 2024.

<http://dx.doi.org/10.13140/RG.2.2.27326.70720>

Hörmann, C., Kuka, L., & Sabitzer, B. (2024). Understanding Teachers' Motivations for Digital Education Training: A Qualitative Study. *International Conference on Informatics in Schools (ISSEP)*, Budapest, October, 2024. <https://tinyurl.com/2p9xhzn9>

Hörmann, C., Kuka, L., Fraser, A., & Sabitzer, B. (2024). Innovation or Imitation? A Critical Analysis of AI-Authored vs. Human-Authored Scientific Papers. *International Conference on Computer Supported Education (CSEDU)*, Angers, 2024. <http://dx.doi.org/10.5220/0012712400003693>

Hörmann, C., Schmidthaler, E., & Sabitzer, B. (2023). Navigating the Implementation of the Curriculum Digital Education in Austrian Secondary Schools: Challenges and Teacher Perspectives. *International Conference on Informatics in Schools (ISSEP)*, Lausanne, October, 2023.

https://doi.org/10.1007/978-3-031-44900-0_13

Schmidthaler, E., Hörmann, C., Fraser, A., & Sabitzer, B. (2023). Easy Coding in Biology: Combining Block-Based Programming Tasks with Biological Education to Encourage Computational Thinking in Girls. *International Conference on Informatics in Schools (ISSEP)*, Lausanne, October, 2023.

<https://doi.org/10.5281/zenodo.8431892>

Rottenhofer, M., Hörmann, C., Schmidthaler, E., Sabitzer, B., & Groher, I. (2023). Let IT Dance! Experience Computer Science with Dance and Music. *Austrian Citizen Science Conference*, Linz.

<https://doi.org/10.22323/1.442.0008>

Hörmann, C., Schmidthaler, E., & Sabitzer, B. (2023). Introducing Digital Education as a Mandatory Subject – The Struggle of the Implementation of a new Curriculum in Austria. *15th International Conference on Computer Supported Education (CSEDU)*, Prague, Czech Republic, April, 2023.

<https://tinyurl.com/3fyem45k>

Schmidthaler, E., Hörmann, C., Rottenhofer, M., Andic, B., Sabitzer, B., & Lavica, Z. (2023). Employment of Mobile Augmented Reality in Biological Education: A Comparison of Perceptions Regarding Austrian Secondary School Teachers and Students. *International Conference on Society for Information Technology and Teacher Education*, New Orleans, USA, March 13-17, 2023. <https://tinyurl.com/yw4xykt3>

Schmidthaler, E., Hörmann, C., Schalk, M., Sabitzer, B., & Lavicza, Z. (2022). The Importance of a Quality Assessment for Educational Applications: Perceptions of Secondary School Students Regarding Non-Certified Learning Apps. *14th International Conference on Education Technology and Computers (ICETC)*, Barcelona, Spain, 2023.

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Hörmann, C., Schmidthaler, E., Kuka, L., Rottenhofer, M., & Sabitzer, B. (2022). From Non-Existent to Mandatory in Five Years – The Journey of Digital Education in Austrian Schools. *International Conference on Informatics in Schools (ISSEP)*, Vienna, 2022.

<https://tinyurl.com/44z92upt>

Hörmann, C. (2022). Integrated Digital Education – Computational Thinking for Everyone. *Doctoral Consortium International Conference on Informatics in Schools (ISSEP)*. <https://tinyurl.com/5n7fcpwr>

Sabitzer, B., Groher, I., Hörmann, C., & Hofer, A. (2021). Toward the Implementation of Escape Room Games in an Educational Context. *15th European Conference on Games Based Learning (ECGBL)*, Brighton, UK. <https://tinyurl.com/zfm83xav>

Hörmann, C., Rottenhofer, M., Groher, I., & Sabitzer, B. (2021). Let the Games Begin – Inviting Young Learners to Code. *26th Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE)*, Paderborn, Germany. <https://dl.acm.org/doi/abs/10.1145/3456565.3460074>

Hörmann, C., Kuka, L., & Sabitzer, B. (2021). Digital Literacy in Austrian Lower Secondary Education – A Synthesis and Evaluation of Experiences in the First Two Years. *International STEM Education Conference (iSTEMed)*, online. <https://doi.org/10.1109/iSTEM-Ed52129.2021.9625126>

Hörmann, C., & Sabitzer, B. (2020). Digital Literacy in Lower Secondary Education – A First Evaluation of the Situation in Austria. *International Conference on Informatics in Schools (ISSEP)*, online. <https://ceur-ws.org/Vol-2755/paper12.pdf>

Otto, K., Kröhn, C., & Sabitzer, B. (2020). Immersion into the World of Gaming – an Approach of Introducing Gamification in an Educational Context. *International Conference on Computer Supported Education (CSEDU)*. <https://tinyurl.com/4esyrfdr>

Kröhn, C., & Sabitzer, B. (2020). Peer-Learning And Talents Exchange In Programming – Experiences And Challenges. *International Conference on Computer Supported Education (CSEDU)*. <https://tinyurl.com/y45bs2ph>

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Kröhn, C., Skogø, J., Hinterplattner, S., & Sabitzer, B. (2020). Towards Implementing Computational Thinking in Mathematics Education in Austria. *Conference on Mathematics Education in the Digital Age (MEDA)*. <https://tinyurl.com/yusp2wb3>

Kröhn, C., Groher, I., Sabitzer, B., & Kuka, L. (2020). Female Computer Scientists Needed – Approaches for Closing The Gender Gap. *Frontiers in Education (FiE)*, IEEE. <https://doi.org/10.1109/FIE44824.2020.9273933>

Kröhn, C., & Sabitzer B. (2019). Integrated Digital Education – Computational Thinking for Everyone. *International Conference on Informatics in Schools (ISSEP)*, Larnaca, Cyprus. <https://tinyurl.com/mr29wm6k>

Hofstätter, B., Sabitzer, B., Thaler, A., & Kröhn, C. (2019). Kids4Wearables: Sustainability and Creativity in STEM Education. 12th Annual International Conference of Education, Research and Innovation (ICERI), Seville, Spain. <https://doi.org/10.21125/iceri.2019.2147>

Reisinger, M., Kröhn, C., & Sabitzer, B. (2018). Magic Arts as Problem-Based Learning Concept – A STEAM Approach to Introduce Computational Thinking in Lower Secondary Schools. *International Technology, Education and Development Conference (INTED)*. <https://doi.org/10.21125/inted.2019.2395>

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Sabitzer, B., Hörmann, C., & Kuka, L. (2023). Entdecken Sie Java 2! Aufgabensammlung mit neurodidaktischer Basis. Amazon. <https://amzn.eu/d/4gkRXv5>

Kuka, L., Hörmann, C., & Sabitzer, B. (2022). Teaching and Learning with AI in Higher Education: A Systematic Review. Section 5: Machine Learning and Human Learning, *Book Project: Learning with Technologies and Technologies in Learning*. https://doi.org/10.1007/978-3-031-04286-7_26

Sabitzer, B., Spieß-Knafl, S., Pasterk, S., & Kröhn, C. (2019). Entdecken Sie Java! Programmieren lernen und üben mit Musterlösungen. Amazon. <https://amzn.eu/d/gZZic8m>

Additional Publications

Hörmann, C. (2024). Ist die AHS noch konkurrenzfähig? Informatikunterricht in Österreich. *OCG Journal*, Ausgabe 04, 2024. <https://tinyurl.com/3658dkpf>

Hörmann, C. (2024). Das hastige Aus der vorwissenschaftlichen Arbeit – ein Fehler?. *Der Standard*, Juli 2024. <https://www.derstandard.at/story/3000000227160/das-hastige-aus-der-vorwissenschaftlichen-arbeit-ein-fehler>

Hörmann, C. (2024). KI-gesteuerte Toolification: Ein neues Zeitalter für die (vor)wissenschaftliche Arbeit. *FNMA Magazin, Forum neue Medien in der Lehre Austria*, Ausgabe 01, 2024. <https://fnma.at/content/download/2906/17996>

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Kastner-Hauler Oliver

Journal Papers

Kastner-Hauler, O., Tengler, K., Sabitzer, B., & Lavicza, Z. (2022). Combined Effects of Block-Based Programming and Physical Computing on Primary Students' Computational Thinking Skills. *Frontiers in Psychology*, 13, 875382. <http://doi.org/10.3389/fpsyg.2022.875382>

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Kastner-Hauler, O., Tengler, K., Sabitzer, B., & Lavicza, Z. (2025). A Learning Environment to Promote the Computational Thinker: A Bebras Perspective Evaluation. ISSEP 2024. *Lecture Notes in Computer Science*, Volume 15228. Springer, Cham. http://doi.org/10.1007/978-3-031-73474-8_7

Kastner-Hauler, O., Standl, B., Sabitzer, B., & Lavicza, Z. (2024). Designing Transformative Learning Environments: Embedding Computational Thinking into Digital Education. CSEDU 2024. *Comm. in Computer and Information Science (CCIS)*, Springer, Cham. <http://dx.doi.org/10.14742/apubs.2014.1059>

Tengler, K., Kastner-Hauler, O., Sabitzer, B., & Lavicza, Z. (2022). The Effect of Robotics-Based Storytelling Activities on Primary School Students' Computational Thinking. *Education Sciences*, 12(1), 10. <http://doi.org/10.3390/educsci12010010>

Kastner-Hauler, O., Tengler, K., Demarle-Meusel, H., & Sabitzer, B. (2021). Adapting an OER Textbook for the Inverted Classroom Model – How To Flip the Classroom with BBC micro:bit Example Tasks. *Frontiers in Education (FiE) 2021 Proceedings*, 8. <http://doi.org/10.1109/FIE49875.2021.9637170>

Kastner-Hauler, O., Sabitzer, B., & Tengler, K. (2020). BBC MICRO:BIT EXPERIMENTS – SPICING UP COMPUTATIONAL THINKING SKILLS. *INTED2020 Proceedings*, 5077–5083. <http://doi.org/10.21125/inted.2020.1385>

Kuka Lisa

Thesis

Kuka, L. (2019). Vom Consumer zum Maker : der interdisziplinäre Einsatz von Single-Board Platinen im Schulwesen. [Thesis, Johannes Kepler University]. Linz.
<https://epub.jku.at/obvulihs/content/titleinfo/4829076>

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Sabitzer, B., Hörmann, C., & Kuka, L. (2024). Künstliche Intelligenz und Bildung: Differenzierte Betrachtung statt Pauschalurteil. *Medienimpulse*, 63(4), 4 Seiten. <https://doi.org/10.21243/mi-04-24-03>

Hörmann, C., Kuka, L., Schmidthaler, E., & Sabitzer, B. (2024). Digital Education Training for Teachers – Learnings from Austria. *Frontiers in Education Journal*, Volume December 2024.
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Sabitzer, B., Hörmann, C., & Kuka, L. (2024). Künstliche Intelligenz (KI) in der Bildung - Ein Kinderspiel? Chancen, Herausforderungen und Anwendungsbeispiele für die Praxis. *Medienimpulse*, 63(3), 26 Seiten. <https://doi.org/10.21243/mi-03-24-22>

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Kuka, L., Hörmann, C., & Sabitzer, B. (2022). Teaching and Learning with AI in Higher Education: A Scoping Review. In: Auer, M.E., Pester, A., May, D. (eds) *Learning with Technologies and Technologies in Learning. Lecture Notes in Networks and Systems*, Volume 456. Springer, Cham.
https://doi.org/10.1007/978-3-031-04286-7_26

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Fraser, A., Hörmann, C., Kuka, L., & Sabitzer, B. (2024). German Teacher Support Platforms: The Impact of OER, AI and Collaborative Communities, *ICERI2024 Proceedings*, 7850-7854.

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Fraser, A., Hörmann, C., Birnkammerer, H., Kuka, L., & Sabitzer, B. (2024). Hands-On Teacher Support through OER-Kitchen: Building a Collaborative Community. *ICERI2024 Proceedings*, 7850-7854.

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Kuka, L., & Sabitzer, B. (2024). Navigating Educational Frontiers in the AI Era: A Teacher's Autoethnography on AI-Infused Education. *Proceedings of the 16th International Conference on Computer Supported Education (CSEDU)*, Volume 1, 355-362.

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Groher, I., Vierhauser, M., Sabitzer, B., Kuka, L., Hofer, A., & Muster, D. (2022). Exploring diversity in introductory programming classes: an experience report. *Proceedings of the ACM/IEEE 44th International Conference on Software Engineering: Software Engineering Education and Training (ICSE-SEET '22)*, 102–112. Association for Computing Machinery, New York, NY, USA.

<https://doi.org/10.1145/3510456.3514155>

Hörmann, C., Kuka, L., Schmidthaler, E., Rottenhofer, M., & Sabitzer, B. (2022). From Non-Existent to Mandatory in Five Years - The Journey of Digital Education in the Austrian School System. *The 15th International Conference on Informatics in Schools – A step beyond digital education*, Vienna, Austria. <http://dx.doi.org/10.13140/RG.2.2.10740.73608>

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Kröhn, C., Groher, I., Sabitzer, B., & Kuka, L. (2020). Female Computer Scientists Needed – Approaches for Closing The Gender Gap. *Frontiers in Education (FiE)*, IEEE. <https://doi.org/10.1109/FIE44824.2020.9273933>

Leitner Sandra

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