

Forschungsplattform "Bildung in der digitalen Welt" Quarterly Newsletter



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If you would like to contribute to this newsletter please contact David Wiesche ([david.wiesche@uni-due.de](mailto:david.wiesche@uni-due.de))

## Welcome to the ForBild Newsletter Discussion about Artificial Intelligence

*By David Wiesche and Tristan Eckenbach*

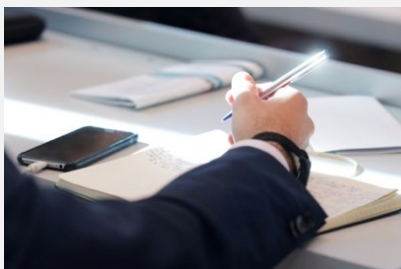
After a break resulting from the impact of the hacker attack on the UDE and the widespread downtime of the university's IT infrastructure, the quarterly ForBild newsletter starts with a commentary on a topic that has been almost impossible to avoid for several months in the education sector: AI in education.

Most prominently via ChatGTP, AI-assisted texting tools are the subject of much discussion: reports are increasing that university exam questions can be solved entirely by the ChatGTP, and there is concern that students are using these tools to hand in homework or assignments and pass them off as their own intellectual property. This is a manifestation of how the texts generated by ChatGTP are shaking up, with an almost disruptive force, the exam culture of reproductive knowledge enrichment that is still prevalent in the German educational context. The resulting opportunities and dangers are the subject of much discussion and are far from being fully foreseen. From an optimistic point of view, ChatGTP will channel a discussion about how modern education must be designed so that it misses the reality of the 21st century. Or, to put it more constructively: AI-supported text generators can be a way for (prospective) teachers to understand and be able to use digital systems of the present on the one hand, and on the other hand to develop a digital literacy by understanding how they work.

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## EVENTS

### Upcoming Workshop:



## New Perspectives on Environmental Migration Research: (Digital) Climate Discourse, Urban Spaces, Materialities

When: 5 – 6 July 2023

Where: University of Duisburg-Essen, Campus Essen

With the financial support from the German Center for Integration and Migration Research (DeZIM), we are pleased to organize this two-day interdisciplinary workshop that engages with the multifaceted ways in which climate change and migration are complexly interconnected. The workshop provides a welcoming space for discussing new perspectives which consider environmental displacement as a beyond traumatic experience influencing, inter alia, discursive structures, urban spaces, and materialities.

No fees are required for this workshop which covers accommodation (in Essen), travel and board (lunch). To attend the workshop, applicants are required to send a 250-word application letter detailing current research interests or projects and reasons for applying for the workshop. Please send your applications to the workshop convener, Prof. Dr. Maida Kosatica ([maida.kosatica@uni-due.de](mailto:maida.kosatica@uni-due.de)), no later than 15 May 2023. Please direct your questions and practical inquiries to the workshop co-organizer, Prof. Dr. Eva Gredel ([eva.gredel@uni-due.de](mailto:eva.gredel@uni-due.de)).

#### Keynote speakers:

Dr. Giovanni Bettini (Lancaster University)

Dr. Sarah Louise Nash (Danube University)

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## Upcoming EdTech Research Forum

Learning Lab, UDE

<https://digi-ebf.de/etrf2023>

The yearly conference of the BMBF-funded meta-project "Digitization in Education" creates cross-educational spaces for exchange and networking and provides insights into current research projects of the research focus "Digitization & Education".

## Upcoming WORKSHOP KI-BILDUNG

An exciting event in the spirit of the AI theme is the Workshop KI-Bildung of the Gesellschaft für Informatik:

<https://ki-bildung.github.io/2023/index.html>

## Past Working Conference AI and Education

On October 18-19 2022, a two-day working conference was organised by the Council of Europe's Expert Group on AI and Education, launched a project to develop a legal instrument for consideration by the full Council centred on the connections between AI and education. During this conference, Irene-Angelica Chounta (colaps, UDE) organized a workshop on "The teaching of AI in education and AI literacy" aiming to urge participants to reflect on the teaching of AI through the lens of Human Rights, Democracy and the Rule of Law. More information can be found at:

<https://rm.coe.int/0900001680aa58ac>

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## Special Issue in the Weizenbaum Journal of the Digital Society

### Education in the Digital World

The Weizenbaum Journal of the Digital Society is an open access journal that takes a multi-perspective and interdisciplinary look at issues relating to digitalization processes in our society. The current Call for Papers is about the general topic "Education in the Digital World". Abstracts on the Special Issue, for which Irene-Angelica Chounta, Eva Gredel, German Neubaum and David Wiesche are responsible as guest editors, are welcome until June 30, 2023. Interdisciplinary proposals for contributions that address topics such as "Digital Era Literacies" or "AI-based systems in mediation contexts" are particularly welcome. The Call for Papers is online here: <https://ojs.weizenbaum-institut.de/index.php/wjds/announcement/view/5> (Deadline: June 30<sup>th</sup>, 2023)

### RESEARCH

- Luna Frauhammer (from the team "Psychological Processes of Education in Social Media") is going to present her results on "Metacognitive effects of attitudinal (in) congruence on social media: Relating processing fluency, subjective knowledge, and political participation" at the annual convention of the International Communication Association in Toronto, Canada. Link to the preprint: <https://psyarxiv.com/bs7nh/>
- German Neubaum (from the team "Psychological Processes of Education in Social Media", UDE) and Dan Lane (University of Southern California) published a pre-registered experiment on whether expressing oneself in persistent social media can have self-effects (e.g., by changing one's self-concept or strengthening one's opinion). Here is the link: <https://psycnet.apa.org/fulltext/2023-53298-001.html>



### Publications (1/2)

- Holmes, W., Persson, J., Chounta, I. A., Wasson, B., & Dimitrova, V. (2022). Artificial intelligence and education: A critical view through the lens of human rights, democracy and the rule of law. Council of Europe.
- Topali, P., Chounta, I. A., Martínez-Monés, A., & Dimitriadis, Y. (2023). Delving into instructor-led feedback interventions informed by learning analytics in massive open online courses. *Journal of Computer Assisted Learning*.
- Michael, L., & Chounta, I.A. (2023) Quizzes and Eggs: Exploring the Impact of Course Design Elements on Students' Engagement. The 15th International Conference on Computer Supported Education
- Leibur, T., Saks, K., & Chounta, I. A. (2023). Towards a conceptualized model of supporting teachers' application process for acquiring professional qualifications. *International Journal of Educational Research Open*, 4, 100236.
- Chounta, I. A., Hoppe, H. U., Nolte, A., & Spikol, D. Re-inventing Project-Based Learning: Hackathons, Datathons, Devcamps as Learning Expeditions. In *Frontiers in Education* (Vol. 8, p. 180). Frontiers. [SPECIAL ISSUE EDITORIAL]
- Gredel, E. & Beißwenger, M. (2023): Arbeitsgemeinschaft „Sprach-Korpora als digitale Bildungstechnologien“. *Zeitschrift für germanistische Linguistik* 51 (1), 196–202. <https://doi.org/10.1515/zgl-2023-20>
- Gredel, E. (2023): Siezt du noch oder duzt du schon? In: *Korpusstudie zum Gebrauch und zur Aushandlung sozialdeiktischer Zeichen auf digitalen Plattformen*. In: Meier-Vieracker, S./ Bülow, L./ Marx, K./ Mroczynski, R. (Hg.): *Digitale Pragmatik*. Berlin/ Heidelberg: Metzler, 39–57. [https://link.springer.com/chapter/10.1007/978-3-662-65373-9\\_3](https://link.springer.com/chapter/10.1007/978-3-662-65373-9_3)
- Bröcher, L., Gredel, E. & Schelenz, L. (2023): Digitale Transformation und Gender Bias. In: *GENDER. Zeitschrift für Geschlecht, Kultur und Gesellschaft* 1.2023. <https://doi.org/10.3224/gender.v15i1>

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## Publications (2/2)

- Wiesche, D., Pryzbylka, N. & Klinge, A. (2023). Eintauchen, Abtauchen und Wiederauftauchen: Fruchtbare Bildungsmomente in Bewegung, Spiel und Sport in Virtuellen Realitäten. In E. Balz & T. Bindel (Hrsg.), Bildungszugänge im Sport: Grundlagen und Offerten. Heidelberg: Springer, S. 97-108.  
[https://doi.org/10.1007/978-3-658-38895-9\\_8](https://doi.org/10.1007/978-3-658-38895-9_8)
- Schäfer, C., Rohse, D., Gittinger, M. & Wiesche, D. (2023). Virtual Reality in der Schule - Bedenken und Potentiale aus Sicht der Akteur:innen in interdisziplinären Ratingkonferenzen. MedienPädagogik 51 - Teil 2 Thema Immersives Lehren und Lernen mit Augmented und Virtual Reality.  
<https://doi.org/10.21240/mpaed/51/2023.01.10.X>

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## PROJECTS

The Horizon-RIA project augMENTOR launched in January, 2023 in Athens, Greece. For augMENTOR, Irene-Angelica Chounta and the research group colaps will lead a work package for eliciting user and technical requirements, and we will contribute to the design of a reference learner profile for mapping learners' basic skills and 21st-century competencies. More information about augMENTOR: <https://augmentor-project.eu/>,

As part of the funding line of the BMBF "Kompetenzzentrum für digitales und digital gestütztes Unterrichten in Schule und Weiterbildung", the AG Digital Teaching and Learning (David Wiesche) is involved in two consortia:

The **DigiProSMK** project "Digitization-related and digitally-supported Professionalization of Sports, Music and Art Teachers" aims to develop and test digitization-related professionalization concepts for teachers. The orientation towards transfer is also evident in the **ComeSport** project "Competence Network - Digitization and Sport in Teacher Education: Mediation, Education and Learning". Both projects will start on 01.07.2023.

## TEACHING

- In the context of the colloquium "Linguistics and Language Didactics" of the Institute for German Studies, which Eva Gredel organizes together with Judith Purkarthofer, there are two lectures on digitization-related topics: Florian Busch (University of Bern) will be a guest on June 13th, 2023. His lecture "Texting in time" deals with the analysis of smartphone-based communication using eye tracking. Matthias Ballod (University of Halle) presents on June 20th, 2023 findings and results from the projects DikoLa (Digital competent in teaching) and [D-3] German - Didactics - Digital. The projects DikoLa and [D-3] deal with the digital transformation of teaching and learning in schools and universities, the latter especially from a German didactic perspective. Both lectures will take place in room R11 T04 C60 from 4 p.m (c.t.). Details can be found in the following moodle room <https://moodle.uni-due.de/course/view.php?id=22585>
  - For SoSe 2023/2024, the colaps research group offers 1 master-level course (Intelligent Learning Environments), 1 praxisproject ("Me-and-my-Chat-GPT": Human-Machine Communication with Text Generators), and 1 research seminar ("Mapping the research landscape of Artificial Intelligence technologies in educational contexts"). If you're interested in these topics, do not hesitate to contact us! <https://www.uni-due.de/colaps/>
  - In the winter semester, Eva Gredel offers a master's course entitled "Text quality(s) and discourses in the age of ChatGPT & Co", in which the handling of AI-based systems in language didactic and media didactic contexts is reflected.
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## ON OTHER NEWS

### Visiting Scholars

During the Wintersemester 2023/2024 **Eucidio Pimenta Arruda**, PhD, Professor da Faculdade de Educação, Federal University of Minas Gerais – Brazil will be a guest in the Learning Lab.

In May 2023, we are hosting at colaps Eric **Roldan-Roa**, a PhD student from the University of Tartu (Estonia) working on pedagogical agents for the classroom. Eric is also a music enthusiast and he is usually coming to the office with his ukulele - he will be very happy to sing a song with you!



### Academic functions

Irene-Angelica Chounta is serving as a Proceedings Chair for Artificial Intelligence in Education (AIED)23. This year she also served as a Program Chair for the 15th International Conference on Computer Supported Education (CSEDU 2023) organized in Prague.

German Neubaum has become Associate Editor of the Journal of Media Psychology (Hogrefe):  
<https://www.hogrefe.com/us/journal/journal-of-media-psychology#2+1>

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