

AIDEA 2025

Sunday, February 23, 2025

| Time | Activity |
|-------|---|
| 19:00 | Optional joint dinner, Gablerbräu: www.gablerbrau.at |

Monday, February 24, 2025

See below for further information on the location of the rooms.

| Time | Activity | |
|-------------|--|--|
| 8:30-9:00 | Registration <i>Room: HS 402 Blauer Hörsaal</i> | |
| 9:00-9:30 | Opening and introduction <i>Room: HS 402 Blauer Hörsaal</i> | |
| 9:30-10:30 | Refactoring Computer Science & Data Science Education in the Age of Generative AI, Orit Hazzan <i>Room: HS 402 Blauer Hörsaal, Chair: S. Schönbrodt</i> | |
| 10:30-11:00 | Break | |
| 11:00-12:30 | <p>CRITICAL EDU & SOCIAL GOOD</p> <p>1: Critical Bildung: Society as Algorithmic Social Machine? Machine metaphors for the Digital Enlightenment Harald Gapski</p> <p>2: On creative thinking in AI and data science education, Dan Verständig</p> <p>3: Unplugged activities as introduction to data science with focus on ethical and social dimensions, Christian Andersson <i>Room: HS 413, Chair: K. Binder</i></p> | <p>DS EDUCATION & SOCIAL GOOD</p> <p>4: Data science for informed citizen: Learning at the intersection of data literacy, statistics and social justice, Joachim Engel</p> <p>5: Data are at the Center of Data Science: My take on what everyone should know about data, Arne Bathke</p> <p>6: High-school data science: a “data moves” perspective, Tim Erickson <i>Room: HS 414, Chair: S. Podworny</i></p> |
| 12:30-13:45 | Lunch | |
| 13:45-14:45 | Generation AI: Tools for AI Education, Matti Tedre, Henriikka Vartiainen <i>Room: HS 402 Blauer Hörsaal, Chair: S. Schneider</i> | |
| 14:45-15:15 | Break | |

| | | |
|-------------|---|--|
| 15:15-16:15 | <p>LEARNING MATERIAL ON AI/ DESIGN PRINCIPLES</p> <p>7: Data-related concepts, practices and design principles for teaching AI topics in secondary schools, Viktoriya Olari</p> <p>8: AI in an online schoolbook, Hannes Heusel</p> <p><i>Room: HS 413, Chair: S. Schneider</i></p> | <p>AI & DS CURRICULA/LEARNING MATERIAL</p> <p>9: Insights and approaches from the AI Competency Center of the Hamburg State Institute for Teacher Training and School Development, Britta Kölling</p> <p>10: Fostering data and AI competencies in primary schools, Anja Gärtig-Daug</p> <p><i>Room: HS 414, Chair: S. Kindler</i></p> |
| 16:15-16:55 | <p>Small group discussions, <i>Moderators: S. Schneider, S. Podworny, R. Biehler, Y. Fleischer, I. Gal, C. Schulte, T. Erickson, T. Weiland, J. Engel</i></p> | |
| 17:00-18:00 | <p>Workshop 1: An introduction to CODAP, Tim Erickson</p> <p><i>Room: HS 413</i></p> | <p>Workshop 2: Hands-on introduction to K-12 AI education using XAI social media simulator "Somekone", Matti Tedre, Henriikka Vartiainen</p> <p><i>Room: HS 414</i></p> |
| 18:30 | <p>Optional joint dinner: La Cantinetta, www.cantinetta.at</p> | |

Tuesday, February 25, 2025

| Time | Activity | |
|-------------|---|---|
| 9:00-9:30 | Morning session, recap of day 1 <i>Room: HS 402 Blauer Hörsaal, Chair: I. Gal</i> | |
| 9:30-10:30 | Lessons Learned from the ProDaBi Project: Shaping Perspectives at the Intersection of Data, AI, and Education, Rolf Biehler, Carsten Schulte <i>Room: HS 402 Blauer Hörsaal, Chair: I. Gal</i> | |
| 10:30-11:00 | Break | |
| 11:00-12:30 | PRODABI PERSPECTIVES Empowering students in a data-driven world: Explanatory models for understanding data-driven technologies from everyday life, Lukas Höper, Yannik Fleischer <i>Room: HS 413</i> | PRODABI PERSPECTIVES Empowering students to gain insights within data exploration projects in the classroom - Using, modifying and creating data moves through a scaffolded use of digital tools, Sven Hüsing, Susanne Podworny <i>Room: HS 414</i> |
| 12:30-13:45 | Lunch | |
| 13:45-14:45 | Education with and about AI: Implementation of a participatory teaching platform, Sarah Schönbrodt, Steffen Schneider <i>Room: HS 402 Blauer Hörsaal, Chair: H. Vartiainen</i> | |
| 14:45-15:15 | Break | |
| 15:15-16:15 | AI & DS EDUCATION FROM A MATH PERSPECTIVE 11: Competencies and curriculum implications at the intersection of mathematics, data science and statistics, Cathy Smith 12: Unsupervised machine learning as learning content in lower secondary school, Katharina Bata <i>Room: HS 413, Chair: Y. Fleischer</i> | LEARNING MATERIAL ON AI – MATH PERSPECTIVE 13: What university-level mathematics needed to understand deep learning can be made accessible in high-school?, Martin Frank 14: Analysis of artificial neural networks as mathematical functions in the classroom, Stephan Kindler <i>Room: HS 414, Chair: M. Geroldinger</i> |
| 16:15-17:00 | Small group discussion, <i>Moderators: S. Hüsing, L. Hörper, K. Binder, O. Hazzan, M. Wilkerson, J. Waite, D. Verständig, H. Vartiainen, V. Olari</i> | |
| 18:30 | Optional joint dinner: Wirtshaus Metzgersteig, www.metzgersteig.at | |

Wednesday, February 26, 2025

| Time | Activity | |
|-------------|--|--|
| 9:00-9:30 | Morning session, recap of day 2 <i>Room: HS 402 Blauer Hörsaal, Chair: M. Frank</i> | |
| 9:30-10:30 | Research to Practice: Designing Learning Experiences for Teachers around Reading the World and the World with Data Visualizations, Travis Weiland <i>Room: HS 402 Blauer Hörsaal, Chair: M. Frank</i> | |
| 10:30-11:00 | Break | |
| 11:00-12:30 | AI COMPETENCIES 15: AI interaction competencies: feedback literacy and legitimation code theory semantics, Jane Waite 16: Constructing & Deconstructing Large Language Models in High School Classrooms, Karl-Emil Kjær Bilstrup 17: Data and AI Readiness: Competencies for school students to become informed citizens, Sarah Huber <i>Room: HS 413, Chair: C. Schulte</i> | AI EDUCATION IN CS 18: On the Interdependency between Artificial Intelligence and Environment and its Implications on CS Education, Marc Berges 19: AI as content not tool, Arnold Pears 20: Understanding understanding AI, Andreas Mühling <i>Room: HS 414, Chair: S. Hüsing</i> |
| 12:30-13:15 | Small group discussion, <i>Moderators: G. Steinbauer-Wagner, M. Frank, C. Smith, K. Bata, S. Schönbrodt, S. Kindler, S. Sentance, M. Tedre, K. Miller</i> | |
| 13:15-14:00 | Lunch | |
| 15:30-17:30 | City Tour | |

Thursday, February 27, 2025

| Time | Activity | |
|-------------|---|--|
| 9:00-9:30 | Morning session, recap of day 3 <i>Room: HS 402 Blauer Hörsaal, Chair: T. Weiland</i> | |
| 9:30-10:30 | Exploring a US Framework of Learning Progressions for K-12 Data Science Education, Katherine Miller, Michelle Wilkerson <i>Room: HS 402 Blauer Hörsaal, Chair: T. Weiland</i> | |
| 10:30-11:00 | Break | |
| 11:00-12:30 | <p>AI LITERACY IN SCHOOL</p> <p>21: Navigating the Digital Frontier - Teaching Data Science and AI Skills in the Austrian school subject digital literacy, Martin Geroldinger</p> <p>22: Providing AI Literacy in Schools – Two Sides of a Medal, Gerald Steinbauer-Wagner</p> <p>23: Data and AI Literacy ... with creativity and fun! Kate Farrell</p> <p><i>Room: HS 413, Chair: L. Höper</i></p> | <p>DS FROM A MATH PERSPECTIVE</p> <p>24: AI education in the mathematics classroom, Sarah Schönbrodt</p> <p>25: Software-supported and simulation-based introduction to significance tests, Karin Binder</p> <p>26: Data cleaning in mathematics education, Jakim Eckert</p> <p><i>Room: HS 414, Chair: K. Bata</i></p> |
| 12:30-13:45 | Lunch | |
| 13:45-14:45 | Design principles and resources for introductory AI lessons for 11 to 14 year old learners, Jane Waite, Sue Sentence <i>Room: HS 402 Blauer Hörsaal, Chair: M. Wilkerson</i> | |
| 14:45-15:30 | Small group discussion, <i>Moderators: A. Mühling, K. Schüller, A. Pears, A. Kuhnla, B. Kölling, K. Kjær Bistrup, J. Eckert, M. Geroldinger, H. Gapski</i> | |
| 15:30-16:00 | Break | |
| 16:00-17:15 | Panel discussion (Rolf Biehler, Carsten Schulte, Sue Sentence, Dan Verständig, and Michelle Wilkerson) <i>Room: HS 402 Blauer Hörsaal</i> | |
| 18:30 | Symposium Dinner, Sternbräu, www.sternbrau.at | |

Friday, February 28, 2025

Note: The talks take place in a different building (see below for more details)

| Time | Activity |
|-------------|---|
| 9:00-9:30 | Morning session, recap of day 4 <i>Room: 1.006/1007, <u>Chair: T. Erickson</u></i> |
| 9:30-10:30 | Infusing ‘data science and AI literacy’ for the general learner population: Conceptual, instructional, and systemic challenges, Iddo Gal <i>Room: 1.006/1007, <u>Chair: T. Erickson</u></i> |
| 10:30-10:40 | Break |
| 10:40-11:30 | General discussion of the symposium <i>Room: 1.006/1007, <u>Moderation: R. Biehler</u></i> |
| 11:30-11:45 | Farewell and takeaways <i>Room: 1.006/1007</i> |

Information on the location of the rooms:

The talks on *Monday - Thursday* take place at Hellbrunnerstraße 34 ([google maps](#)) in rooms:

- HS 402 Blauer Hörsaal: Ground Floor (see on [building plan](#))
- HS 413: 2. Floor (see on [building plan](#))
- HS 414: 2. Floor (see on [building plan](#))
- The coffee breaks take place on the 2. Floor (see on [building plan](#))

The talks on *Friday* take place at Erzabt-Klotz-Straße 1 (see [google maps](#)) in room:

- Room 1.006/1007