AIDEA 2025

Sunday, February 23, 2025

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

Monday, February 24, 2025

Time	Activity	
9:00-9:30	Opening and introduction *Room: HS 402 Blauer Hörsaal*	
9:30-10:30	Refactoring Computer Science & Data Science Education in the Age of Generative AI, **Orit Hazzan** *Room: HS 402 Blauer Hörsaal, Chair: S. Schönbrodt*	
10:30-11:00	Break	
11:00-12:30	CRITICAL EDU & SOCIAL GOOD 1: Critical Bildung: Society as Algorithmic Social Machine? Machine metaphors for the Digital Enlightenment **Harald Gapski** 2: On creative thinking in AI and data science education, **Dan Verständig** 3: Unplugged activities as introduction to data science with focus on ethical and social dimensions, **Christian Andersson** *Room: HS 413, Chair: K. Binder*	DS EDUCATION & SOCIAL GOOD 4: Data science for informed citizen: Learning at the intersection of data literacy, statistics and social justice, **Joachim Engel** 5: Data are at the Center of Data Science: My take on what everyone should know about data, **Arne Bathke** 6: High-school data science: a "data moves" perspective, **Tim Erickson** *Room: HS 414, Chair: S. Podworny*
12:30-13:45	Lunch	
13:45-14:45	Generation AI: Tools for AI Education, **Matti Tedre, Henriikka Vartiainen** *Room: HS 402 Blauer Hörsaal, Chair: S. Schneider*	
14:45-15:15	Break	
15:15-16:15	LEARNING MATERIAL ON AI/ DESIGN PRINCIPLES	AI & DS CURRICULA/LEARNING MATERIAL

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

Tuesday, February 25, 2025

Time	Activity	
9:00-9:30	Morning session, recap of day 1 *Room: HS 402 Blauer Hörsaal, <u>Chair: I. Gal</u>*	
9:30-10:30	Lessons Learned from the ProDaBi Project: Shaping Perspectives at the Intersection of Data, AI, and Education, **Rolf Biehler, Carsten Schulte** *Room: HS 402 Blauer Hörsaal, <u>Chair: I. Gal</u>*	
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** *Room: HS 413*	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** *Room: HS 414*
12:30-13:45	Lunch	
13:45-14:45	Education with and about AI: Implementation of a participatory teaching platform, **Sarah Schönbrodt, Steffen Schneider** *Room: HS 402 Blauer Hörsaal, <u>Chair: H. Vartiainen</u>*	
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** *Room: HS 413, <u>Chair: Y. Fleischer</u>*	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** *Room: HS 414, <u>Chair: M. Geroldinger</u>*
16:15-17:00	Small group discussion, *Moderators: S. Hüsing, L. Hörper, K. Binder, O. Hazzan, M. Wilkerson, J. Waite, D. Verständig, H. Vartiainen, V. Olari*	
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 *Room: HS 402 Blauer Hörsaal, <u>Chair: M. Frank</u>*	
9:30-10:30	Research to Practice: Designing Learning Experiences for Teachers around Reading the World and the World with Data Visualizations, **Travis Weiland** *Room: HS 402 Blauer Hörsaal, <u>Chair: M. Frank</u>*	
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, **Katharina Schüller** *Room: HS 413, <u>Chair: C. Schulte</u>*	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** *Room: HS 414, <u>Chair: S. Hüsing</u>*
12:30-13:15	Small group discussion, *Moderators: G. Steinbauer-Wagner, M. Frank, C. Smith, K. Bata, S. Schönbrodt, S. Kindler, S. Sentance, M. Tedre, K. Miller*	
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 *Room: HS 402 Blauer Hörsaal, <u>Chair: T. Weiland</u>*	
9:30-10:30	Exploring a US Framework of Learning Progressions for K-12 Data Science Education, **Katherine Miller, Michelle Wilkerson** *Room: HS 402 Blauer Hörsaal, <u>Chair: T. Weiland</u>*	
10:30-11:00	Break	
11:00-12:30	AI LITERACY IN SCHOOL 21: Navigating the Digital Frontier - Teaching Data Science and AI Skills in the Austrian school subject digital literacy, **Martin Geroldinger** 22: Providing AI Literacy in Schools – Two Sides of a Medal, **Gerald Steinbauer-Wagner** 23: Data and AI Literacy … with creativity and fun! **Kate Farrell** *Room: HS 413, <u>Chair: L. Höper</u>*	DS FROM A MATH PERSPECTIVE 24: AI education in the mathematics classroom, **Sarah Schönbrodt** 25: Software-supported and simulation-based introduction to significance tests, **Karin Binder** 26: Data cleaning in mathematics education, **Jakim Eckert** *Room: HS 414, <u>Chair: K. Bata</u>*
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 Sentance** *Room: HS 402 Blauer Hörsaal, <u>Chair: M. Wilkerson</u>*	
14:45-15:30	Small group discussion, *Moderators: A. Mühling, K. Schüller, A. Pears, A. Kuhnla, B. Kölling, K. Kjær Bilstrup, J. Eckert, M. Geroldinger, H. Gapski*	
15:30-16:00	Break	
16:00-17:15	Panel discussion (Rolf Biehler, Carsten Schulte, Sue Sentance, Dan Verständig, and Michelle Wilkerson) *Room: HS 402 Blauer Hörsaal*	
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 *Room: 1.006/1007, <u>Chair: T. Erickson</u>*
9:30-10:30	Infusing 'data science and AI literacy' for the general learner population: Conceptual, instructional, and systemic challenges, **Iddo Gal** *Room: 1.006/1007, <u>Chair: T. Erickson</u>*
10:30-11:30	General discussion of the symposium *Room: 1.006/1007, <u>Moderation: R. Biehler</u>*
11:30-11:45	Farewell and takeaways *Room: 1.006/1007*

Further 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