

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	
9:30-10:30	Refactoring Computer Science & Data Science Education in the Age of Generative AI, Orit Hazzan	
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</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</p>
12:30-13:45	Lunch	
13:45-14:45	Generation AI: Tools for AI Education, Matti Tedre, Henriikka Vartiainen	
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>AI & DS CURRICULA/LEARNING MATERIAL</p> <p>9: TBA, Britta Kölling</p> <p>10: Fostering data and AI competencies in primary schools, Anja Gärtig-Daug</p>
16:15-16:55	Small group discussions	

17:00-18:00	Workshop 1: An introduction to CODAP, Tim Erickson	Workshop 2: Matti Tedre, Henriikka Vartiainen
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	
9:30-10:30	Lessons Learned from the ProDaBi Project: Shaping Perspectives at the Intersection of Data, AI, and Education, Rolf Biehler, Carsten Schulte	
10:30-11:00	Break	
11:00-12:30	PRODABI PERSPECTIVES TBA, Yannik Fleischer, Lukas Höper	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
12:30-13:45	Lunch	
13:45-14:45	TBA, Sarah Schönbrodt, Steffen Schneider	
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: TBA, Martin Frank	LEARNING MATERIAL ON AI – MATH PERSPECTIVE 13: Unsupervised machine learning as learning content in lower secondary school, Katharina Bata 14: Analysis of artificial neural networks as mathematical functions in the classroom, Stephan Kindler
16:15-17:00	Small group discussion	
18:30	Optional joint dinner: TBA	

Wednesday, February 26, 2025

Time	Activity	
9:00-9:30	Morning session, recap of day 2	
9:30-10:30	Research to Practice: Designing Learning Experiences for Teachers around Reading the World and the World with Data Visualizations, Travis Weiland	
10:30-11:00	Break	
11:00-12:30	AI COMPETENCIES 15: AI interaction competencies: feedback literacy and legitimation code theory semantics, Jaine 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	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
12:30-13:15	Small group discussion	
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	
9:30-10:30	Exploring a US Framework of Learning Progressions for K-12 Data Science Education, Katherine Miller, Thema Monroe-White, Michelle Wilkerson	
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>DS FROM A MATH PERSPECTIVE</p> <p>24: Software-supported and simulation-based introduction to significance tests, Karin Binder</p> <p>25: Data cleaning in mathematics education, Jakim Eckert</p> <p>26. NN</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	
14:45-15:30	Small group discussion	
15:30-16:00	Break	
16:00-17:15	Panel discussion	
18:30	Symposium Dinner, Sternbräu, www.sternbrau.at	

Friday, February 28, 2025

Time	Activity
9:00-9:30	Morning session, recap of day 4
9:30-10:30	General discussion of the symposium
10:30-11:30	Infusing 'data science and AI literacy' for the general learner population: Conceptual, instructional, and systemic challenges, Iddo Gal
11:30-11:45	Farewell and takeaways