AIDEA 2025

## Sunday, February 23, 2025

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| **Time** | **Activity** |
| 19:00 | Optional joint dinner, Gablerbräu: [www.gablerbrau.at](https://www.gablerbrau.at/) |

## Monday, February 24, 2025

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| **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 | 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** | 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** |
| 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 | LEARNING MATERIAL ON AI/ DESIGN PRINCIPLES  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** | AI & DS CURRICULA/LEARNING MATERIAL  9: TBA, **Britta** **Kölling**  10: Fostering data and AI competencies in primary schools, **Anja Gärtig-Daugs** |
| 16:15-16:55 | Small group discussions | |
| 17:00-18:00 | Workshop 1: TBA, **Erickson** | Workshop 2: **Matti** **Tedre, Henriikka Vartiainen** |
| 18:30 | Optional joint dinner: La Cantinetta, [www.cantinetta.at](https://www.cantinetta.at/) | |

## Tuesday, February 25, 2025

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| **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** | |
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| 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 | |
| 15:30-17:30 | City Tour | |

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## Thursday, February 25, 2025

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| **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 | 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** | DS FROM A MATH PERSPECTIVE  24: Software-supported and simulation-based introduction to significance tests, **Karin Binder**  25: Data cleaning in mathematics education, **Jakim Eckert**  26. **NN** |
| 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** | |
| 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](https://www.sternbrau.at/) | |

## Friday, February 25, 2025

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| **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 |