Programme Interdisciplinary Barcamp on Artificial Intelligence in Higher Education

AI-Barcamp Winter School Laubusch 2024

Monday 26th to Thursday 29th of February, 2024

Day 1: Monday, 26.02.2024	
Time	**Activities**
bis 10:00	Individual Arrival and Registration
10:00-13:00	Opening and welcoming by organizers with presentation of the programme Welcome Session with Prof. Dr. Thomas Köhler (TU Dresden) Pitch /Poster Presentations of the participants
13:00-14:15	Lunch
14:30-15:15	**Keynote 1** (30 Minutes + 15 Minutes for Questions and Discussion) *"AI, learning, education - opportunities, challenges, limits"* The presentation provides an overview of the relationship between the three terms mentioned. AI as learning support is not identical to AI as an educational companion. Utopias will be questioned and the possible role of AI in higher education contexts will be explored, with the normative goal of acquiring skills at the centre. Prof. Dr. Heinz-Werner Wollersheim, Universität Leipzig
15:15-15:30	Tea/coffee break (informal exchange)
15:30-17:10	**Workshop 1** *"Generative AI in higher education: experiences and examples from the tech4compKI network"* The aim of making mentoring scalable is pursued with hybrid AI (knowledge base + interaction). After an introduction, the participants will have the opportunity to try out the AI tutor developed as part of tech4compKI and test it using predefined and their own questions. Prof. Dr. Heinz-Werner Wollersheim, Universität Leipzig
17:10-19:00	Presentation of the proposed topics for the Barcamp and group formation
19:00-20:15	Dinner
ab 20:30	Informal networking

Day 2: Tuesday, 27.02.2024	
Time	**Activities**
07:45-08:45	Breakfast
09:00-10:30	**Barcamp Working Groups**
10:30-11:00	Tea/coffee break (informal exchange)
11:00-13:00	**Barcamp Working Groups**
13:00-14:15	Lunch
14:15-15:00	**Keynote 2** (30 Minutes + 15 Minutes for Questions and Discussion) *"(Text-)Generative AI used in the university to promote learning"* The presentation proposes an outline and analysis of the questions that arise from a didactic point of view when, now and in the future, students can make use of powerful generative AI tools in their learning process, in the development of their scientific competences, and, above all, in scientific writing. The problem is illustrated using the example of a specific learning objective analysis - what do the learning path and acquisition of skills look like with and without the use of AI? Dr. Katja Reinecke, Freie Universität Berlin
15:00-15:30	Tea/coffee break (informal exchange)
15:30-17:30	**Workshop 2** *"Teaching and learning with the inclusion of (text-)generative AI tools: Providing good tasks"* This workshop deals with the didactic principles of a competent, i.e. learning-promoting use of generative AI applications (ChatGPT & Co). How must tasks be set for students so that they can work on them meaningfully with the help of AI applications and thus learn effectively? How can students be motivated to engage critically with AI and its results? And how can they be persuaded to continue working with AI once they have realised with frustration that its outputs were too incorrect? Dr. Katja Reinecke, Freie Universität Berlin
17:30-18:00	**Presentation** (20 Minutes + 10 Minutes for Questions) *"Presentation of an adaptive, personalised recommendation system to increase learning performance: Application and testing within the project "tech4comp".* An innovative, adaptive and personalised recommendation system is presented that aims to significantly increase the learning performance of users. By adapting to the individual learning styles and needs of users, the system enables the targeted promotion of effective learning strategies and offers customised learning content. Prof. Dr. Shahram Azizi Ghanbari, Sam Toorchi Roodsari, CODIP TU Dresden
18:00-19:00	Exchange and reflection sessions (reports on the work of the Barcamp Working Groups)
19:00-20:15	Dinner
ab 20:30	Informal networking

Day 3: Wednesday, 28.02.2024	
Time	**Activities**
08:00-09:00	Breakfast (Museum visit: Meeting point IBS foyer at 9:10 am)
09:30-12:30	Visit to the Zuse Computer Museum in Hoyerswerda
12:50-14:00	Lunch
14:00-15:00	**Barcamp Working Groups**
15:00-15:30	Tea/coffee break (informal exchange)
15:30-16:00	**Presentation** Junior Research Group ScaDS.Ai (20 Minutes + 10 Minutes for Questions) „*Learning Diversification through AI Mentorship*" The presentation "Learning Diversification through AI Mentorship" introduces the development of an AI mentor specifically tailored to enrich education through personalized learning. It showcases an example of how AI can be developed to consider various learning needs, life contexts, and individual aspirations, creating stimulating and inclusive learning environments. Dr. Sandra Hummel, Mana-Teresa Donner, Gitanjali Wadhwa und Syed Hur Abbas, TU Dresden
16:00-16:30	**Presentation** (20 Minutes + 10 Minutes for Questions) "*Tandem teaching 2.o – On new models of the teaching profession in the cooperative teaching of AI and humans*" AI-based learning applications, apps, tools and tutors are not simply bringing new media into the classroom. Rather, a new agent is entering our lessons. Even if AI is "only" a programme and not physically in the classroom, learning processes are changing fundamentally in several dimensions. The aim of this short presentation is to highlight this change and discuss it under the guiding concept of "team teaching". Prof. Dr. Birte Platow, Martin Kutz, TU Dresden
16:30-19:00	**Barcamp Working Groups** (Preparation of final reports or poster presentation with the results of the group work)
19:00-20:15	Dinner
ab 20:30	Informal networking

Day 4: Thursday, 29.02.2024	
Time	**Activities**
07:45-08:45	Breakfast
09:00-09:30	**Keynote 3** (20 Minutes + 10 Minutes for Questions) (Online Presentation) *"The IDea_Lab and the AI strategy of the University of Graz"* The University of Graz actively confronts the diverse challenges posed by AI technologies to promote a positive and sustainable impact of AI on society. The central instrument for this is the interdisciplinary and cross-faculty IDea_Lab, which bundles AI activities. In addition to research into AI and big data applications and their transfer to society, the lab also focuses on further education and infrastructure measures. Prof. Dr. Markus Fallenböck, Vice Rector University of Graz, Vice Rectorate for Human Resources and Digitalisation
09:30-10:00	Tea/coffee break (informal exchange)
10:00-13:30	Presentation of the results of the Barcamp Working Groups: Exchange and reflection rounds Closing plenary session
13:30-14:30	Lunch
ab 14:30	Individual departure

* Changes are still possible. Any important modification will be communicated to the participants.