

Today's agenda

* 9:00 -> 10:00 General Session

- Part 1: Introduction to Helmholtz Al
- Part 2: Meet the Consultant Team for Health
- Q&A Session

Break

- 1-to-1 Consultancy slots (private)
 - 10:30-11:00 Department of Chemical Biology
 - 11:00-11:30 Nanoscale Infection Biology
 - 11:30-12:00 Structure and Function of Proteins



The six Research Fields

... of the Helmholtz Association



The six Research Fields

... of the Helmholtz Association



An Helmholtz Incubator Information and Data Science Platform





HELMHOLTZAI | ARTIFICIAL INTELLIGENCE COOPERATION UNIT

Funding & Support





MISSION

Maximise research impact by democratising access to Al



Key facts: Launched mid 2019 12M€ per year Central unit + 5 local units

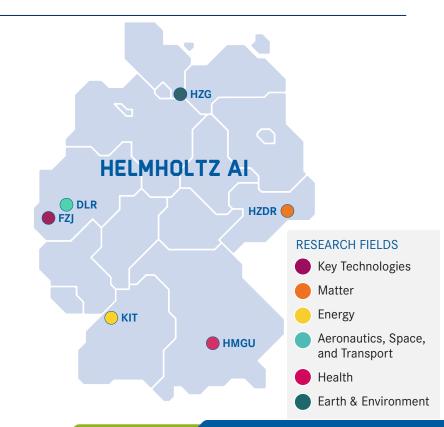


Mission: Democratise Access to Al

- Interdisciplinary platform for innovative research in Al
- Compiles develops and fosters applied AI methods nationwide across all Helmholtz Centers

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Aims to reach international leadership in applied Al



Steering Board



Fabian Theis SD, HMGU



Frank Jenko MPI



Guido Juckeland HZDR



Judith Katzy DESY



Andreas Kosmider HGF



Lars Mehwald HGF



Ralf Mikut KIT



Morris Riedel FZJ



Corina Schrum HZG



Oliver Stegle DKFZ

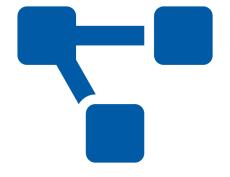


Frederik Tilmann GFZ



Xiaoxang Zhu DLR

Funding & Support







HAICORE

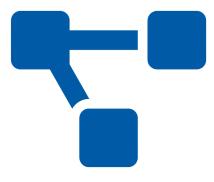


Vouchers

Projects: Research on novel Al Methods and Applications

- High risk, high gain Al research
- At least two Helmholtz Centers, external partners possible
- Duration 1-3 years (usually 2)
- 50:50 matched funding
- * Up to 200.000 €
- Annual call, expected for next fall

More information at www.helmholtz.ai



HAICORE: Computing Resources for the AI Community in Helmholtz

- GPU-accelerated HPC systems
- Support via consultants
 - Instant use
 - Light-weight projects (5,000 GPU hours)
- Automatic access for Helmholtz AI (e.g. Vouchers, Projects)
- * Easy application process



Vouchers: Support for Applied Al Research

- Collaborative work between
 Research group and Consultant
 group
- Duration: 2 weeks 6 months
- Free of charge, conditioned on availability of consultants
- Easy application, fast assignment process



Vouchers: Support for Applied AI Research

- Exploration vouchers (2 weeks)
 - Brainstorming on Al approaches
 - Feasibility on your data
 - Technology advice
- Realisation vouchers (up to 6 months)
 - Method development
 - Implementation of pipelines
 - Optimization of existing code
 - Application on your data
- Joint publication policy (for major contributions, follows DFG guidelines)



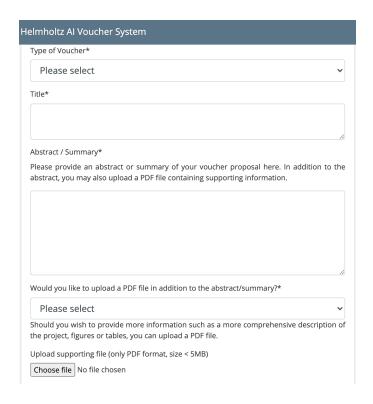
Vouchers: Support for Applied Al Research

Centralized <u>web-based system</u>

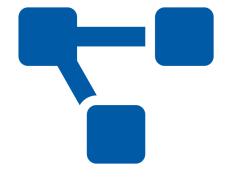
- Login with Helmholtz Center e-mail address
- Minimal form
- Short abstract (>100 characters)

* Assignment process

- Answer (<3 weeks)
- Handled by responsible unit
- Can be attributed to another unit
- We always give feedback and help!



Democratizing Access to AI across all Helmholtz Centers







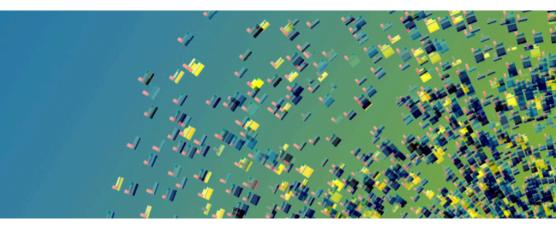
HAICORE



Vouchers

Save the date: 14-15 April 2021

HELMHOLTZ AI VIRTUAL CONFERENCE 2021









www.helmholtz.ai

Helmholtz Al

Want to give it a try?



<u>consultant-</u> <u>helmholtz.ai@helmholtz-</u> muenchen.de

