

Issue 34
January 2023

NEWS

“Artificial intelligence is a concept that obscures accountability. Our problem is not machines acting like humans — it's humans acting like machines.”

- John 12 Hawk, pseudonym of author of The Fourth Realm Trilogy

Latest Highlights

New Publications and Preprints

- M. Yang, [E. Robertson](#), L. Esguerra, K. Busch and J. Wolters (2023). **Optical convolutional neural network with atomic nonlinearity.** <https://doi.org/10.48550/arXiv.2301.09994> [Preprint]
- L. Meßner, [E. Robertson](#), L. Esguerra, K. Lüdge and J. Wolters (2023). **Multiplexed random-access optical memory in warm cesium vapor.** <https://doi.org/10.48550/arXiv.2301.04885> [Preprint]
- [L. Rui](#), M. Kudryashev, and A. Yakimovich (2022). **A weak-labelling and deep learning approach for in-focus object segmentation in 3D widefield microscopy.** <https://doi.org/10.21203/rs.3.rs-2362531/v1> [Preprint]
- L. Rui, V. Sharma, S. Thankgamani, and A. Yakimovich (2022). **Open-Source Biomedical Image Analysis Models: A Meta-Analysis and Continuous Survey.** *Frontiers in Bioinformatics.* <https://doi.org/10.3389/fbinf.2022.912809>

Recent Presentations at Conferences

- L. Rui, M. Kudryashev, and A. Yakimovich. **Translate widefield microscopy images into the 3D models in confocal microscope style using deep neural networks.** *6th International Symposium on Image-based Systems Biology (ibSB)*, Online & Jena, Germany, 8-9 September 2022.

Scholarships

Tabea Rettelbach has been awarded a AI4EO Beyond Fellow Scholarship for a research stay at the [AI4EO Future Lab](#) (Prof. Xiaoxiang Zhu) of Technische Universität München from January 16 to June 18, 2023.

Announcements

HEIBRIDS Annual Retreat

The **HEIBRIDS Annual Retreat** is taking place this year during **March 27-28**. Location and schedule are underway.

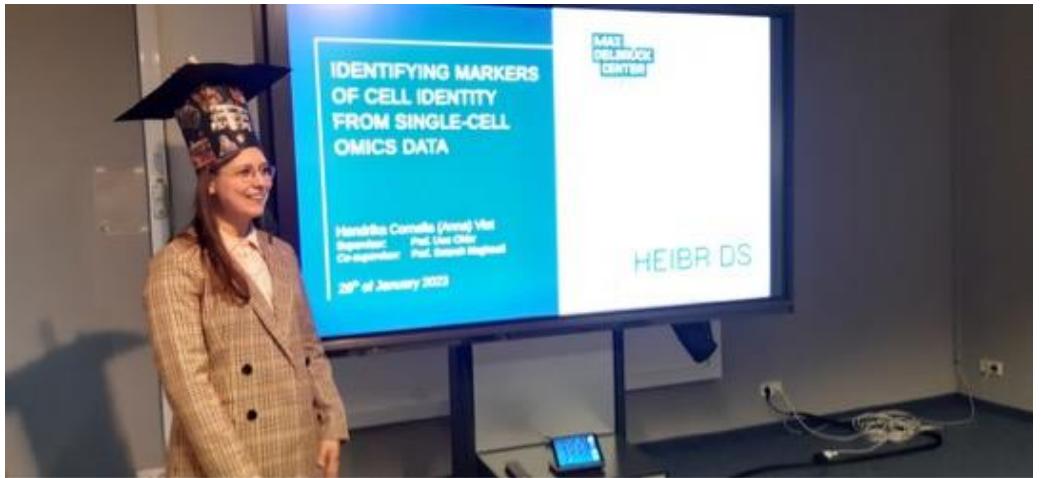
Training offers from our partners

- Please check regularly training offers from [TU](#) (sub-pages are both in German and English), the [Humboldt Graduate School](#) and the [Dahlem Research School](#). For registration, follow the registration link for each individual workshop.

Our pick of the month: [Good Scientific Practice](#) on **March 2-3**. The workshop is also offered in [German](#) on **February 1-2**.

- Training offers from **HIDA**, our sister-schools **HIDSS** and **HIFIS** can be found [here](#), [here](#) and [here](#).
- The Lecture Series of our partner [FONDA](#) is taking place every **Tuesday from 14:00 to 15:00**. You can find the schedule [here](#).

HEIBRiDS Graduates



HEIBRiDS PhD students **Peter Tillmann** and **Anna Vlot** successfully defended their PhD theses on 25.01.23 and 26.01.23, respectively. We wish them all the best in their next career steps!