

Issue 14

September 2020

NEWS

*"Algorithms are opinions
embedded in Code"*

- **Cathy O'Neil**, mathematician
and author of the book "Weapons
of Math Destruction"

Latest Highlights

New People

As of September 1:

- **Brian Groenke** joined HEIBRIDS with his project on developing a "A data-centric workflow for autonomous monitoring of Arctic land surface parameters", supervised by Julia Boike (AWI) and Guillermo Gallego (TU).
- **Elizabeth Robertson** embarked on her project on "Building a Photonic Processor for Energy-Efficient AI", under the supervision of Janik Wolters (DLR) and Guillermo Gallego (TU).
- **Xiaoyan Yu** started her project on "Deep Learning with sparse annotations for the analysis of lung tissue microscopy images", supervised by Dagmar Kainmueller (MDC), Andreas Hocke (Charité) and Thomas Tolxdorff (Charité).

In addition:

- **Ivo Daniel** was accepted as associated HEIBRIDS student. Ivo is working on "Data-driven approaches to anomaly detection in Water Distribution Networks" under the supervision of Andrea Cominola (TU).

Welcome everybody!

New Publications / Preprints / Presentations at Conferences

- **Paolo Graniero**, Atse Louwen, Rutger Schlatmann and Carolin Ulbrich. "Comparison of Different Data Sources for Machine Learning Algorithms in Photovoltaic Output Power Estimation" was presented as visual poster presentation at the 37th EU PVSEC, 07 - 11 September 2020 (Online event).
- **Jannes Münchmeyer**, Dino Bindi, Ulf Leser and Frederik Tilmann (2020). "The transformer earthquake alerting model: A new versatile approach to earthquake early warning" arXiv:2009.06316
- **Leon Weber**, Mario Sängler, **Jannes Münchmeyer**, Maryam Habibi, Ulf Leser, and Alan Akbik (2020). "HunFlair: An Easy-to-Use Tool for State-of-the-Art Biomedical Named Entity Recognition" arXiv:2008.07347.

Prizes / Awards / Scholarships

- The *Leakbusters* team from TU-Berlin and North Carolina State University, led by associated HEIBRiDS PhD student **Ivo Daniel** and his supervisor Andrea Cominola, achieved the 3rd place award in the BattLeDIM 2020, an international competition on leakage detection and isolation methods. Further information about the BattLeDIM, including the data, organizers and teams can be found at <https://battledim.ucy.ac.cy/>.
- **Peter Tilmann** received an award at EU PVSEC (European PV Solar Energy Conference and Exhibition) that took place online on September 6-10, for the poster "Analyzing the Angular Reflection Losses of Bifacial Solar Cells".
- **Femke van Gefen** has been accepted at the HIDA Trainee Network and will spend three months in the group of Ronny Hänsch at the Department of SAR Technology, DLR/Munich.
- **Peter Tilmann** has also been accepted at the HIDA Trainee Network and will receive funding for a three-month stay at the DLR Institute of Solar Research in Almeria, Spain. He will conduct research in the group of Stefan Hilbert on the classification of optical cloud transparency from sky images.

Congratulations everybody!

Announcements / Upcoming Events

HIDA-Newsletter

Click [here](#) to read the latest issue of HIDA-Newsletter.

The magic of data @ the Re:publica

HIDA is participating in this year's [Re:publica](#) with artistic animations and visualizations created by the designer Michael Schmitz ([neoanalog](#)), based on data that PhD researchers from all Helmholtz International Data Science Schools (HIDSS), including HEIBRiDS, have made available to. You can read more about this project [here](#).

Geo.X Autumn School

The Geo.X Autumn School will run as an onsite event at Henry Ford-Bau, FU-Berlin on **October 5-9, 2020**. During a week of keynote lectures, hands-on tutorials and collaborations on mini research challenges, PhD and postdoctoral researchers will have the opportunity to come together and jointly learn and advance their scientific profile in interdisciplinary collaborative research around the topics Geo.Data Science and Geo.Society. This year's school will also focus on the development of tools and methods of science communication. If you would like to learn more about it and participate, you can contact [Tabea Rettelbach](#), who is part of the organizing team.

HIDA Datathon

The Helmholtz Association with its 19 research centers offers unique capabilities to research the climate and find solutions to save it, from looking at regional climate models, to spanning an earth observation network for a birds-eye view on the long-term effects of global change on various environmental systems. Be part of the first HIDA Berlin Datathon on **April 2-3, 2020** and help fight climate change based on real-world data. For further details and registration click [here](#).

Training

- A course on **Hyperparameter Optimization** is offered by HDSLEE, our sister school in Data Science located in Jülich. It will take place on **November 13, 2020** and the registration deadline is **October 16, 2020**. Click [here](#) for more information.
- A course titled **Bring your own script and make it ready for publication** is offered by the HIFIS (Helmholtz Federated IT Services) platform on **November 10-11, 2020**. Registration is open until **October 20, 2020**. Click [here](#) for more information.
- For inspiration and other course offers, visit the updated page on our website: <https://www.heibrids.berlin/events-training/>