



Issue 42

November-
December 2023

NEWS

Latest Highlights

*"May your data be merry and bright,
with insights sparkling like holiday
lights, and your algorithms bring joy
and delight throughout the festive
night!"*

- Generated by ChatGPT

New Publications and Preprints

- I. Daniel, N.K. Ajami, A. Castelletti, D. Savic, R.A. Stewart, and A. Cominola (2023). **A survey of water utilities' digital transformation: drivers, impacts, and enabling technologies.** *npj Clean Water* 6, 51. <https://doi.org/10.1038/s41545-023-00265-7>
- I. Daniel, and A. Cominola (2023). **Estimating irregular water demands with physics-informed machine learning to inform leakage detection.** arXiv. <https://doi.org/10.48550/ARXIV.2309.02935> [Preprint]

Conference Presentations

- M. Schubach, T. Maass, L. Nazaretyan, S. Röner, and M. Kircher. **CADD v1.7: Using protein language models, regulatory CNNs and other nucleotide-level scores to improve genome-wide variant predictions.** (Poster presentation), *Genome Informatics*, Cold Spring Harbour, 6-9 December 2023.
- D. Collin, S. Bianco, G. Gallego, and Y. Shprits. **Forecasting solar wind speed from coronal holes.** (Oral presentation), *AGU Fall Meeting*, San Francisco, USA, 11-15 December 2023.

Grants

- Lusiné Nazaretyan received a **DAAD scholarship** for her stay at Princeton University from September 1 to December 22, 2023. In addition, she received a **Humboldt-University Travel Grant for Short-term Activities of PhDs** to attend the Genome Informatics Conference at Cold Spring Harbour, USA during December 11-15, 2023.

PhD Dissertations



HEIBRiDS doctoral researcher **Thorren Kirschbaum**, defended successfully his PhD thesis with the title “On the Electronic Structure of Nanodiamonds for Photocatalysis” on **November 27, 2023**.

Associated
HEIBRiDS
doctoral
researcher
Ivo Daniel
defended

successfully his PhD (or rather Dr.-Ing.) thesis with the title “Physics-Informed Anomaly Detection in Water Distribution Systems - Advancing Digital Transformation of Urban Water Management” on **November 24, 2023**.

Congratulations to both!!



Announcements

HIDA PhD Meet-Up 2024 – SAVE-THE-DATE

HIDA is planning a meet-up for the doctoral researchers of the 6 Helmholtz Information & Data Science Schools that will take place on **June 6-7, 2024** in Berlin. The goal of this meet-up is to strengthen the network and enable/increase the professional exchange between the doctoral researchers of the schools. Please save the date in your calendars. We will provide you with more information as the time approaches.

New PhD Reps

HEIBRiDS PhD student **Jonas Schaible** has replaced Oleksii Martynchuk in his role as PhD representative. **Elizabeth Robertson** will continue in this role for one more period. Many thanks to Oleksii for his time as PhD representative!

Training offers from our partners

TU-Berlin is offering a one-day workshop on “**Plagiat, Ghostwriting und Chatbots: Verantwortung für Texte im wissenschaftlichen Alltag**” on **January 12, 2024** (in German). For more information and registration see [here](#).

Further training offers from **TU-Berlin**, the **Humboldt Graduate School** and the **Dahlem Research School** can be found [here](#), [here](#) and [here](#). Training offers from **HIDA**, **HIDSS** and **HIFIS** can be found [here](#), [here](#) and [here](#).