



ICICLE
DEMOCRATIZING AI

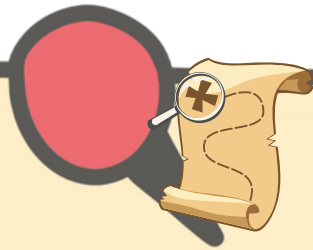
NEWSLETTER

ISSUE 16 - DECEMBER 2023



NEW PROJECTS IN 2024

STAY TUNED
FOR DETAILS

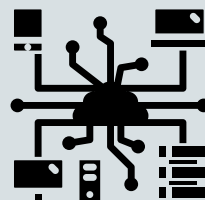


UPDATES TO THE STRATEGIC IMPLEMENTATION PLAN (SIP) - PROJECTS AND ACTIVITIES

- INTEGRATED KNOWLEDGE AND LEARNING ENVIRONMENT (IKLE)
- INTELLIGENT CI FOR ANIMAL ECOLOGY PROJECT (ICI4AE)
- SMART CI FOR DEMOCRATIZED DIGITAL AGRICULTURE (SCI4DDA)
- SMART SCALING AND SCHEDULING WITH THE INTELLIGENCE PLANE

NEW !!
CONSULTING
SESSIONS WITH
THE BROADER
IMPACT (BIBN)
TEAM

COMING
SOON



2024.01 ICICLE CI/SOFTWARE RELEASE

ICICLE AT HIPC CONFERENCE, GOA



Prof D.K Panda provided an overview of the on-going Digital Agriculture Activities within ICICLE at the 30th IEEE International Conference on High Performance Computing, Data, and Analytics in Goa.

The US-India Collaboration Digital Ag Workshop/BOF Session was an in-person workshop to discuss opportunities for collaboration between Indian and US in digital agriculture research and featured several invited talks, an industry session, breakout group discussions, and a panel, with participants from US and Indian academia, government, and industry sectors.



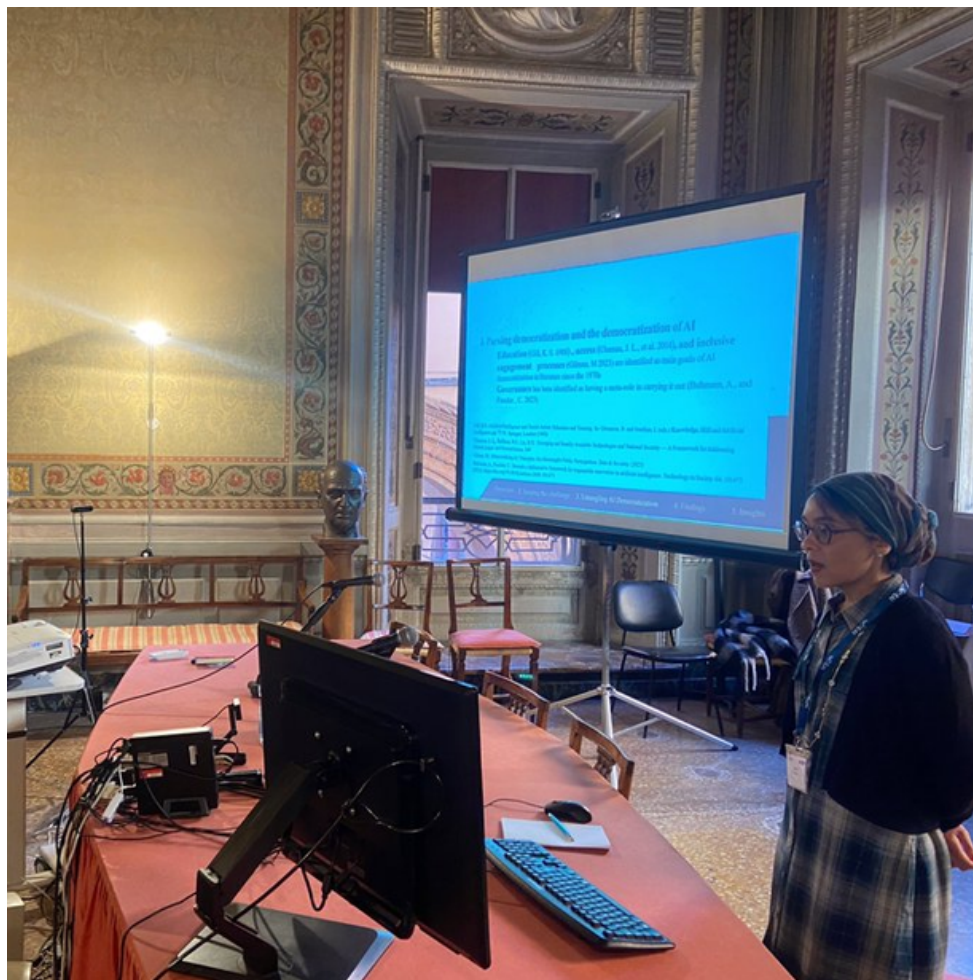
ICICLE NEXTGENS ACTIVITIES



Nawras Alnaasan presented a paper on "**HARVEST: High-Performance Artificial Vision Framework for Expert Labeling using Semi-Supervised Training**" at the *2023 IEEE Big Data conference, Sorrento, Italy in December 2023* and also provided an overview of the ICICLE institute.

The presentation was well received and generated a lot of positive feedback.





“Democratization is a process, not a destination: Operationalizing ethics and democratization in a cyberinfrastructure for AI project”

Sadia Khan, Alfonso Morales, Beth Plale

In their case study of AI democratization in the ICICLE AI institute, authors Sadia Khan, Alfonso Morales, and Beth Plale found that Democratization is a process, not a destination.

Presenting their thus titled paper at the *International Conference on AI for People in Bologna, Italy in November 2023*, they conclude that embracing a robust definition of AI democratization that includes widening use/access, prioritizing benefit, broadening participation in development, and democratic governance is necessary, and doing so requires a strong commitment, a critical perspective, and some amount of seeing the invisible.

ICICLE TIPS ON AI ETHICS

A series of short videos that situates AI Ethics in an accessible, tip-oriented manner. The series is motivated by the belief that ***forethought about ethical implications can create better outcomes***. Check out the tips listed below -

- **TIP #1:** REMEMBER THAT AI IS NOT INEVITABLE.
- **TIP #2:** RECOGNIZE THAT OUR RESPONSIBILITY IS TO THE POSITIVE OUTCOMES WE WORK TOWARDS
- **TIP #3:** DIMENSIONS OF PRIVACY
- **TIP #4:** FAIRNESS – FOCUS ON STAKEHOLDERS AND USE-INSPIRED SCIENCE
- **TIP #5:** TRUSTWORTHINESS – WHAT DOES IT TAKE TO TRUST AI AND CYBERINFRASTRUCTURE ?
- **TIP #6:** ACCOUNTABILITY – PROVIDES MECHANISMS FOR EVALUATING TRUSTWORTHINESS
- **TIP #7:** AI DEMOCRATIZATION IN ICICLE

Browse all Tips for AI Ethics [here](#)

ICICLE TIPS ON ALLYSHIP

The Broader Impact Backbone Network team has created tips in video format on how we, here at ICICLE, can become better allies

TO PROMOTE AN AWARE , INCLUSIVE , AND MORE DIVERSE COMMUNITY



Browse all Tips for Allyship [here](#)

RECENT PRESENTATIONS & PUBLICATIONS

- Kevyn Angueira Irizarry and Christopher Stewart, "Poster: Profiling Edge Resource Demands of Zoom Maneuvers for Autonomous Unmanned Aerial Vehicles", December 2023.
- Cheng-Hao Tu, Hong-You Chen, Jike Zhong, Zheda Mai, Vardaan Pahuja, Tanya Berger-Wolf, Song Gao, Charles Stewart, Yu Su, Wei-Lun Chao, "Holistic Transfer: Towards Non-Disruptive Fine-Tuning with Partial Target Data", In the Conference on Neural Information Processing Systems (NeurIPS'23), December 2023.
- Nawras Alnaasan, Matthew Lieber, Amir Shafi, Hari Subramoni, Scott Shearer, and Dhabaleswar K Panda, "HARVEST: High-Performance Artificial Vision Framework for Expert Labeling using Semi-Supervised Training", 2023 IEEE International Conference on Big Data, December 2023.
- Chang-You Tai, Ziru Chen, Tianshu Zhang, Xiang Deng, Huan Sun, "Exploring Chain-of-Thought Style Prompting for Text-to-SQL", In the Conference on Empirical Methods in Natural Language Processing, December 2023 (EMNLP' 23)
- Shijie Chen, Ziru Chen, Huan Sun, Yu Su, "Error Detection for Text-to-SQL Semantic Parsing", In the Findings of the Conference on Empirical Methods in Natural Language Processing, December 2023 (EMNLP' 23: Findings).
- Kai Zhang*, Lingbo Mo*, Wenhui Chen, Huan Sun, Yu Su, "MagicBrush: A Manually Annotated Dataset for Instruction-Guided Image Editing", In the Conference on Neural Information Processing Systems (NeurIPS'23), December 2023 .
- Xiang Deng, Yu Gu, Boyuan Zheng, Shijie Chen, Samuel Stevens, Boshi Wang, Huan Sun, Yu Su., "Mind2Web: Towards a Generalist Agent for the Web"., In the Conference on Neural Information Processing Systems (NeurIPS'23), December 2023.

Click [here](#) to view all ICICLE Presentations and Publications

SUBSCRIBE TO ICICLE MAILING LISTS

The following mailing lists are available for ICICLE software and cyberinfrastructure releases, future updates and miscellaneous questions regarding installation/build problems, performance issues.

- **icicle-announce**: This is an announcement list only. If you would like to get information about future updates, software and cyberinfrastructure releases, publications, etc. related to the ICICLE project, you may subscribe to this mailing list. This list is open to public. You are welcome to subscribe to this mailing list yourself.
- **icicle-discuss**: This is a discussion list. This mailing list is meant for users to discuss all installation/build problems, performance issues, features and other miscellaneous questions related to the different software and cyberinfrastructure components of the ICICLE project. In order to post your questions and suggestions to this mailing list, you need to be a registered user of ICICLE with an organizational e-mail address and be a member of this list by subscribing to it with the same e-mail address. If you are not a registered user, please follow the procedure indicated under Download tab in the top menu to get registered.

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