Field Day: 2020-Initiated AI Research Institutes

AG2PI
Agricultural Genome to Phenome Initiative

IOWA STATE UNIVERSITY · THE UNIVERSITY OF ARIZONA · University of Idaho · Nebraska Lincoln

AI Institute for Future Agricultural Resilience, Management and Sustainability

The Artificial Intelligence for Future Agricultural Resilience, Management, and Sustainability (AIFARMS) Institute brings together researchers in AI and agriculture, combining their expertise to promote advances in agriculture through AI. Our mission is to harness core AI research to address major challenges across agriculture including efficiency and welfare in animal agriculture, environmental resilience in crops, and soil health. AIFARMS is hosted by the University of Illinois at Urbana-Champaign, together with the University of Chicago, Donald Danforth Plant Science Center, Michigan State University, Tuskegee University, USDA-ARS, and Argonne National Laboratory.

Presenter:
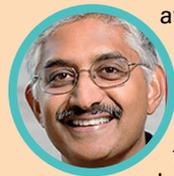
Vikram Adve is the Donald B. Gillies Professor of Computer Science at the University of Illinois at Urbana-Champaign and a Professor in Electrical and Computer Engineering. Adve is a co-founder and co-director of the Center for Digital Agriculture at Illinois, and leads AIFARMS, one of four USDA-funded National AI Institutes for Agricultural Innovation. Adve's research in CDA and AIFARMS focuses on enabling high-performance and energy-efficient machine learning at the edge for agricultural applications.

AI Institute for Next Generation Food Systems

The Artificial Intelligence Institute for Next Generation Food Systems, or AIFS, was launched October 1, 2020 to solve the world's biggest challenges to crop and food production: ensuring a sustainable, nutritious, efficient, and safe food supply while mitigating the impacts of climate change. To accelerate critical solutions to these challenges, AIFS brings AI technology to the entire food system from crop breeding and farming to food production and nutrition. The institute combines the latest breakthroughs in AI with preparing the food and agriculture industries to rapidly adopt them and ready the workforce. AIFS, housed at UC-Davis, brings together more than 40 faculty and 40 graduate students from six US institutions and agencies.

Presenter:

Ilias Tagkopoulos, Professor of Computer Science and the Genome Center at University of California, Davis, leads the Integrative Biology and Predictive Analytics laboratory, and is Director of AIFS, a collaboration between UC Davis, UC Berkeley, UIUC, Cornell, ANR, and USDA. His work addresses challenges in heterogeneous data integration, multiscale modeling, optimal experimental design and decision making under uncertainty, with applications in clinical and nutrition data.

Feb. 16, 2022
10:30 AM–12:00 PM
(Central Time, UTC–6)

Purpose: To introduce two NSF and USDA NIFA-supported artificial intelligence research institutes that focus on AI in agriculture.

Register for this Zoom virtual meeting:

https://tinyurl.com/AG2PI-FD15

Upon registration, you will receive a confirmation email with information about joining the meeting.

A recording will be available at a later date at: **ag2pi.org/**