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# C3.ai Digital Transformation Institute

FALL 2023

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IN THIS ISSUE: 2023 Annual Report, Gen AI Experts at October Workshop, ChatBot Safety, Electrifying Desalination

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## C3.ai DTI Annual Report: The Foundation of the Future

"We began the C3.ai Digital Transformation Institute three years ago with the goal of developing the scientific foundation of the Digital Transformation of Societal Systems," DTI co-directors **Shankar Sastry** and **R. Srikant** relate in the introduction to the 2022-2023 annual report.

- [Read more and download 2022-2023 Annual Report](#)
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# GenAI October 25-27 Workshop Speakers Announced

National experts in artificial intelligence from leading research universities, along with top industry leaders, will be among the speakers featured in the Institute's October 25-27 Workshop on Generative AI, to be held at NCSA headquarters at the University of Illinois Urbana-Champaign.

- [See speaker list](#)
  - [See full program and REGISTER NOW](#)
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## Researchers Poke Holes in Safety Controls of ChatGPT and Other Chatbots

*New York Times*: **Zico Kolter** of Carnegie Mellon University (right) led a team demonstrating how anyone could circumvent A.I. safety measures and use any of the leading chatbots to generate nearly unlimited amounts of harmful information. “There is no obvious solution,” said Kolter (also a C3.ai DTI cybersecurity PI). “You can create as many of these attacks as you want in a short amount of time.”

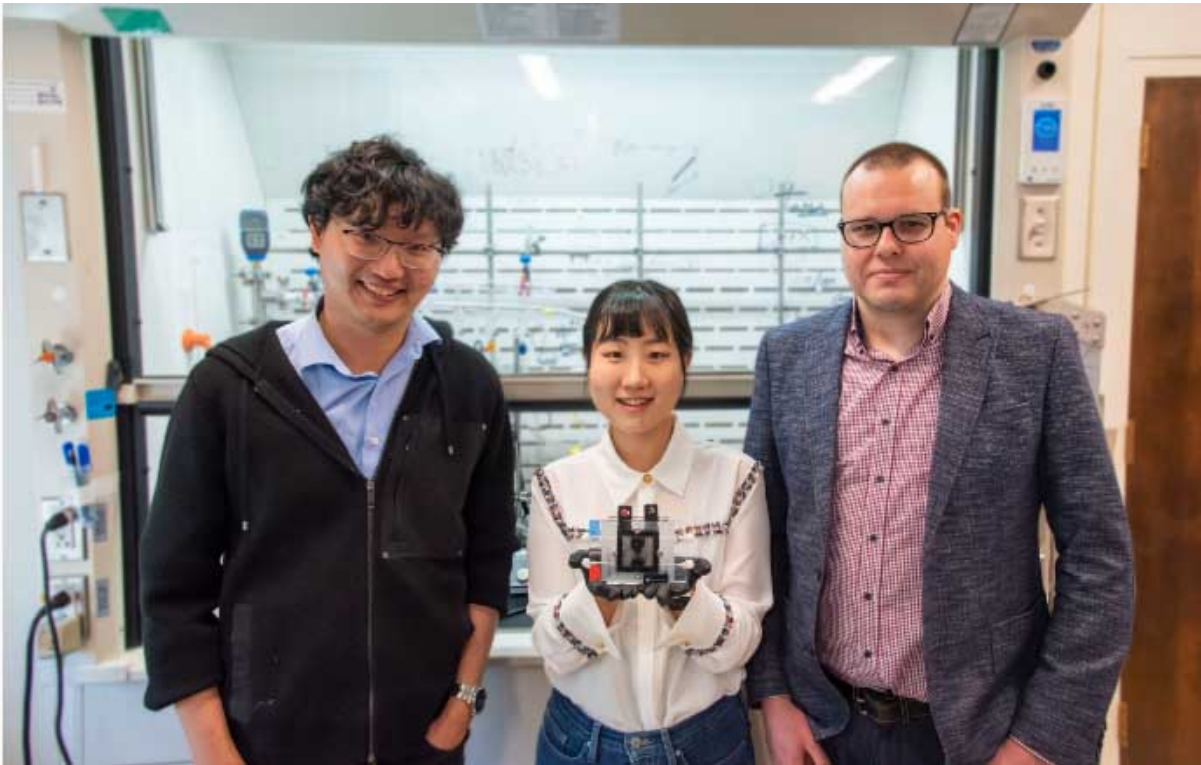
- [Read more](#)
  - [See study](#)
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## How Trustworthy Are Large Language Models Like GPT?

Three C3.ai DTI PIs, **Sanmi Koyejo** of Stanford, **Bo Li** of UIUC, and **Dawn Song** of UC Berkeley (left to right), collaborated with Microsoft researchers to explore how trustworthy large language models are. “Everyone seems to think LLMs are perfect and capable, compared with other models. That’s very dangerous, especially if people deploy these models in critical domains. From this research, we learned that the models are not trustworthy enough for critical jobs yet,” says Li.

- [Read more](#)
  - [See study](#)
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## Don't wait, desalinate: the electrified future of clean water

A water purification system developed by a research team led by **Xiao Su** (left), University of Illinois Urbana-Champaign assistant professor of chemical and biomolecular engineering, separates out salt and other unnecessary particles with an electrified version of dialysis. Successfully applied to wastewater with planned expansion into rivers and seas, the method saves money and consumes 90 percent less energy than its counterparts.

- [Read more](#)
  - [See study](#)
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## Song Among Top 10 Web3 Women Entrepreneurs

*Techopedia:* **Dawn Song** was named among the top ten women leaders in the Web3 industry. A distinguished entrepreneur and computer science scholar, Song is a professor at the University of California, Berkeley, and CEO of Oasis Labs, a blockchain-based cloud computing program. Song has examined blockchain security for a DTI cybersecurity project.

- [Read more](#)



[About the C3.ai Digital Transformation Institute](#)

Established in March 2020 by C3.ai, Microsoft, and leading universities, the C3.ai Digital Transformation Institute is a research consortium dedicated to accelerating the socioeconomic benefits of artificial intelligence. The Institute engages the world's leading scientists to conduct research and train practitioners in the new Science of Digital Transformation, which operates at the intersection of artificial intelligence, machine learning, cloud computing, internet of things, big data analytics, organizational behavior, public policy, and ethics. The 10 C3.ai Digital Transformation Institute consortium member universities and laboratories are: University of Illinois Urbana-Champaign; University of California, Berkeley; Carnegie Mellon University; KTH Royal Institute of Technology; Lawrence Berkeley National Laboratory; Massachusetts Institute of Technology; National Center for Supercomputing Applications at University of Illinois Urbana-Champaign; Princeton University; Stanford University; and University of Chicago. Learn more at [C3DTI.ai](https://C3DTI.ai).



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