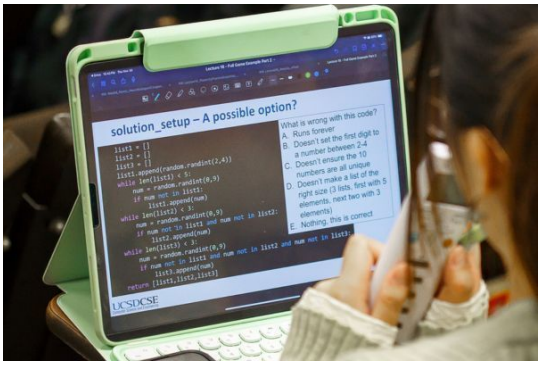
VOLUME 6 | January 2024

CSE NEWS



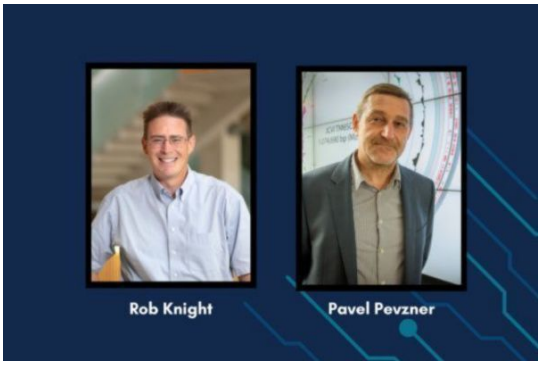
In This Era of AI, Will Everyone Be a Programmer?

Is ChatGPT a threat to computer science education? Professor **Leo Porter** responds to this question and makes computing more accessible with a new book that offers a roadmap to teaching programming in this era of AI. Read More

Qipeng Liu Uses Quantum Power to Redefine Cryptography

According to **Qipeng Liu**, a new assistant professor in CSE, quantum computers could destroy current cryptography protocols protecting our online information. His research utilizes quantum power to develop novel cryptographic solutions. Read More

View Annual Report



CSE Researchers Named Among the Most Influential in Their Fields

Professors **Rob Knight** and **Pavel Pevzner** were named in Clarivate's listing of Most Highly Cited Researchers in the World – Knight for his paper on high-throughput community sequencing and Pevzner for his research on analyzing genomes. Read More

CSE's List of NSF CAREER Award Recipients Expands, Again

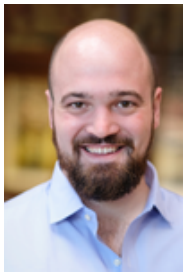
Two CSE professors – **Jingbo Shang** and **Hao Su** – join the impressive ranks of now 48 faculty members in the department to receive The National Science Foundation's prestigious Faculty Early Career Development award. Read More

NOTEWORTHY

JSOE Honors CSE Faculty

CSE Undergraduate Teacher Award: Associate Teaching Professor **Gerald Soosai Raj**

Outstanding CSE Faculty Mentor Award: Professor **Geoff Voelker**



Outstanding CSE Graduate Mentor Award: Assistant Professor **Pat Pannuto**

Award-Winning Research

Associate Professor **Hao Su** had five papers accepted by Neural Information Processing Systems (NeurIPS) – two on 3D foundation models, one on verification of LLM, one on soft-body manipulation, and one on an inverse rendering dataset.

PRISM announced Best Poster and Best Demo Award winners for the 2023 PRISM Annual Review, including CSE PhD student **Derek Jones** for Best Poster (Theme 2) and an intern from the San Diego Supercomputer Center, **Ivannia Gomez Moreno** (Undergrad).

Faculty in the News

Tajana Šimunić-Rosing, a CSE professor and co-director of PRISM, was featured in TechRadar's article, "Inventing tomorrow's technology with hyperdimensional computing."

WIRED magazine featured a fix to Apple AirTag stalking proposed by Associate Professor **Nadia Heninger** and her colleagues.

Professor **Laurel Riek** was quoted in a CACM article, Making Empathy Artificial regarding the benefits and potential risks of employing AI in patient care.

CSE EVENTS

Coming to Your CSE Community

CSE Research Open House
January 26

CSE & Bioengineering Career Fair
February 14

5th Annual CSE Research Open House

Save the Date: Friday, January 26, 2024

When: 8:30 a.m. to 4:30 p.m.

Where: CSE Building (EBU 3B)

Keynote Speaker: Yoshi Kohno, Professor at University of Washington

More Information and Registration

RESEARCH CENTERS & INSTITUTES

PRISM Center Shines at Its First Annual Review

The new Processing with Intelligent Storage and Memory center, or PRISM, was awarded its second-year funding during a successful annual review by the Semiconductor Research Corporation (SRC). The $50.5 million center, led by CSE's **Tajana Šimunić-Rosing**, aims to make computing orders of magnitude faster and more efficient in an era where the amount of data and its complexity is growing exponentially.

In its first year, PRISM established a tight collaboration with member companies and academic stakeholders, launched 11 SEED projects, and recruited 115 students as well as 17 interns and 9 full-time hires. With 20 awards, more than 40 speaking engagements and 30 news articles to date, PRISM members have cemented the center as a bright, forward-thinking force in the field, problem-solving for next-generation information and communications challenges.

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