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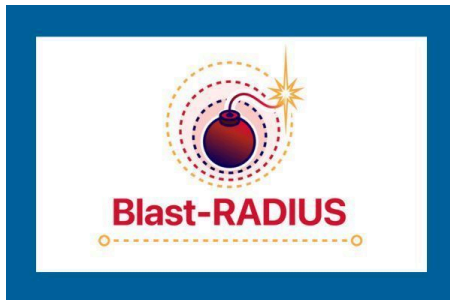
UC San Diego
JACOBS SCHOOL OF ENGINEERING

AROUND CSE

News and highlights from your
Computer Science and Engineering Department
at the University of California San Diego

VOLUME 7 | August 2024

CSE NEWS



Vulnerabilities Discovered in a Popular Security Protocol

Researchers led by Professor **Nadia Heninger** are sounding the alarm regarding vulnerabilities they found in a security protocol that dates back to dial-up Internet and is still widely used in modern telecommunications. [Read More](#)



Cybersecurity Flaws Could Derail High-profile Cycling Races

Computer scientists, including Assistant Professor **Earlence Fernandes**, are working with a leading bike manufacturer to prevent security breaches in wireless gear-shifting systems which could compromise rider safety and performance. [Read More](#)

CSE's 3 New Endowed Chairs



CSE's Ryan Kastner, Laurel Riek, and Alex Snoeren Are Awarded Endowed Chairs

Three CSE professors are among the 18 new endowed chairs created recently in the Jacobs School of Engineering. **Kastner** holds the William Nachbar Endowed Chair; **Riek** holds the David R. Miller Endowed Chair; and **Snoeren** holds the Peter Banks Endowed Chair. [Read More](#)

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Computer Science Researchers Are Getting It Wrong When It Comes to Autism Inclusivity

Roughly 93.5% of human-robot interaction research papers published over a 6-year period stigmatize autism and exclude the perspectives of autistic people, according to PhD student **Naba Rizvi** and her colleagues. [Read More](#)



Computer Graphics Pioneer Earns His Second Frontiers of Science Award in Two Years

Professor **Ravi Ramamoorthi**, the director of the Jacobs School of Engineering's Center for Visual Computing (VisComp), and his co-authors earned a Frontiers of Science Award for advancing view synthesis for virtual reality. [Read More](#)



Computer Scientists Shed Light on Scene Re-rendering, Earning EGSR Best Paper Award

A joint team of researchers, including CSE PhD student and first author **Bing Xu**, have received a best paper award for their theoretical framework that sheds light on scene re-rendering with moving objects and material authoring. [Read More](#)



A Simple Firmware Update Completely Hides a Device's Bluetooth Fingerprint

A research team, led by Professor **Aaron Schulman**, has developed a firmware update employing complex algorithms that can hide a device's Bluetooth fingerprint, eliminating a vulnerability discovered by the team two years ago. [Read More](#)

NOTEWORTHY



Professor **Dean Tullsen** and PhD students **Luyi Li** and **Hosein Yavarzadeh** were awarded the "Distinguished Paper" award for their paper, "[Indirector: High-Precision Branch Target Injection Attacks Exploiting the Indirect Branch Predictor](#)," at the 2024 USENIX Security Symposium.



A team of eight CSE professors, alumni, and students and their co-authors were honored during the 2024 USENIX Security Symposium with an Intel Hardware Security Academic Award, earning honorable mention for their paper, "[Going beyond the Limits of SFI: Flexible and Secure Hardware-Assisted In-Process Isolation with HFI](#)." [Read More](#)



Associate Professor [Rose Yu](#) received the DARPA young faculty award for her proposal, “Grounding LLMs with Physical Laws,” introducing a novel, hybrid AI approach for training deep learning models. [Read More](#)



UC San Diego is now ranked #1 in the USA in WorldQuant's [International Quant Championship \(IQC\)](#), a coding based competition for which the **project component of CSE 198** helped students prepare.

CSE EVENTS



CSE Alumni Summer Picnic – San Diego

Saturday, September 21

[Register Here](#) (*sign up to attend or volunteer!*)

TAPIA Conference

September 18-20

PRISM eWorkshop

Tuesday, September 24



CSE Alums Reconnect at Annual Picnics

Over summer break, CSE hosted two Alumni Summer Picnics – one in the Bay Area and another in Seattle – with a third picnic planned for San Diego alumni on September 21. The informal reunions brought alumni together to enjoy the outdoors, reconnect with CSE friends, and get involved.

At venues ranging from Gas Works Park overlooking beautiful downtown Seattle to historic Saratoga Springs in the Santa Cruz mountains, our faculty, alumni, and their families enjoyed socializing and great food. Spirited games – such as cornhole and volleyball – were on hand for fun.

Register now for the season's final alumni picnic!



San Diego Picnic
September 21

RESEARCH CENTERS & INSTITUTES



Students in PRISM's summer program

Making Summer Days Count

Two UC San Diego research centers transformed summer break into valuable instructional time, introducing underserved communities to computing.



[PRISM](#) Center's High School Summer Research Program, created by CSE professors **Niema Moshiri** and **Tajana Rosing**, introduced students from the Sweetwater Union High School District to this year's topic, Bioinformatics. Of the 14 participants in the six-week program, half had no prior computing experience. [Read More](#)



In the spirit of inclusivity for minority-serving institutions, [EnCORE](#) hosted Introduction to Algorithms Camp, a week-long summer course for community college students that provides an overview of algorithmic knowledge. The program covered problem-solving, randomization, dynamic programming, and NP-hardness, among other topics.

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