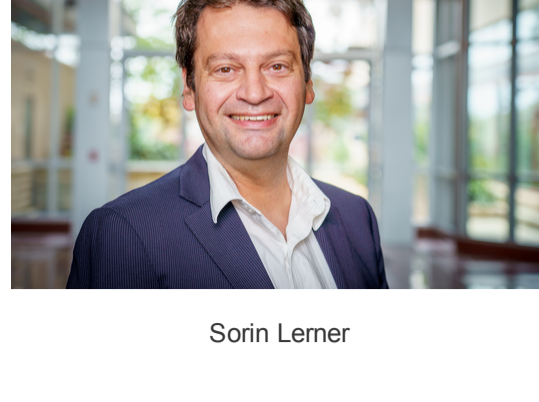


**Message from the Chair**

As the fall quarter comes to a close, I am thankful for all the efforts and achievements of our CSE community. It is an honor for me to be a part of this journey.

This academic year, our CSE department is celebrating its 35th birthday. Please save the date, Friday, April 14, 2023, for our department's 35th Anniversary celebration! This all-day event will also incorporate our annual CSE Research Open House. We will have a keynote speaker, showcase our innovative initiatives, have a retrospective of where we have come from, and finally we will imagine the future of CSE. I want to personally invite each and every one of you to come attend this event.

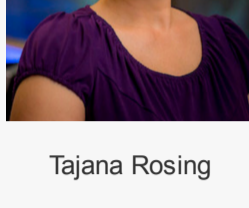


Sorin Lerner

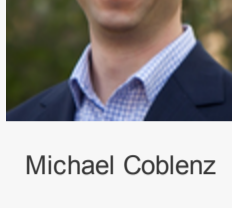
As we reach the end of a long and rewarding 2022, I want to wish you a restful and Happy Holidays, and we will see you in 2023!

**Sorin Lerner, CSE Department Chair**

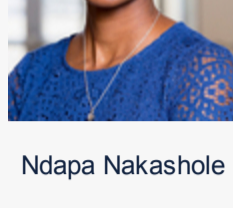
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**CSE NEWS**

Tajana Rosing



Michael Coblenz



Ndapa Nakashole

**CSE's Tajana Rosing Honored for Excellence in Semiconductor Design Research**

Tajana Šimunić Rosing, a leading researcher in accelerating big data in hardware using both novel machine learning techniques, such as hyperdimensional computing, and in- and near-memory and storage processing, received the 2022 University Research Award from the [Semiconductor Industry Association](#) (SIA) and the [Semiconductor Research Corporation](#) (SRC). [Read More](#)

**Two CSE Researchers Among Most Highly Cited in the World**

Two researchers affiliated with the CSE department – Professors Rob Knight and Pavel Pevzner – are among the world's most influential researchers in their fields, according to the 2022 Clarivate listing of Most Highly Cited Researchers in the World. [Read More](#)

**CSE Will Support Schmidt Future \$148M Initiative Accelerating AI Use in Science**

UC San Diego has been selected to join the [Eric and Wendy Schmidt AI in Science Postdoctoral Fellowship, a program of Schmidt Futures](#), to accelerate the next scientific revolution by applying AI to research in science, technology, engineering and mathematics (STEM). [Read More](#)

**Leading the Way to Health Equity**

Researchers from a broad range of fields at UC San Diego are making waves as they push the boundaries of science and medicine to develop groundbreaking, real-world solutions to longstanding health inequities. CSE Assistant Professor Ndapa Nakashole is among them, working to develop a 3D virtual human avatar as a medical resource. [Read More](#)

**CSE Expands Faculty with Experienced Software Engineer, Michael Coblenz**

What would prompt a senior software engineer with Apple, Inc. to exchange a high-performance career for academia? That's precisely the path new CSE Assistant Professor Michael Coblenz took when he left the tech giant to earn his Ph.D. [Read More](#)

**CSE Teams Earn Qualcomm Innovation Fellowship Award**

Two teams from CSE have received Qualcomm Innovation Fellowship (QIF) awards for 2022. The CSE teams, along with four teams from ECE, earned six out of 19 awards – making UC San Diego the top recognized university. [Read More](#)

**NOTEWORTHY**

CSE Assistant Professor **Niema Moshiri** has been named on the [Forbes 30 under 30: Healthcare](#) list. The recognition is for Moshiri's bioinformatics tools developed to help researchers process SARS-CoV-2 sequencing data in rapid time.

A team of students from CSE and the San Diego Supercomputer Center (SDSC) has won the [2022 Student Cluster Competition HPL Benchmark Contest](#), placing third overall in the competition at the recent 2022 Supercomputing Conference in Dallas, Texas. The team, [2MuchCache](#), was mentored by **Bryan Chin** and **Mary Thomas**.

CSE bachelor's student **Arjun Sampath** has been awarded a Lawrence Livermore National Laboratory Scholarship. The scholarship recognizes students who demonstrate academic excellence and a commitment to their field.

A cohort of four CSE students – **Alex Bellon**, **Hayden McTavish**, **Mohana Seelan** and **Anshul Shah** – have been accepted into the [Cultural Competence in Computing \(3C\) Fellows Program](#) to learn more about social science topics related to identity and race and to develop computing deliverables that foster more inclusive and equitable cultures.

Professor **Aaron Schulman** received the CSE Award for Outstanding Graduate Student Mentoring in the Jacobs School of Engineering, and Professor **Manmohan Chandraker** was selected as CSE's Best Undergraduate Teacher of the Year in the Jacobs School of Engineering.

CSE Professors **Manmohan Chandraker** and **Ravi Ramamoorthi** along with Ph.D. student **Ishit Mehta** received Best Paper Honorable Mention at the [2022 European Conference on Computer Vision](#) for their research on "[A Level Set Theory for Neural Implicit Evolution under Explicit Flows](#)."

**CSE INCLUSION****King-Chavez Students Welcomed by CSE**

*Students from underrepresented populations toured UC San Diego's CSE campus.*

CSE welcomed students from King-Chavez Community High School for a campus tour, introducing the class – predominantly comprised of Latinx and low-income students – to education and employment opportunities in computer science.

For many of the students, it was their first time at UC San Diego. The field trip, which included an undergraduate student panel and a student project showcase, was arranged by Mayumi Otsuki, a computer science teacher at King-Chavez in the San Diego Unified School District. The students also enjoyed lunch at the Price Center.

Otsuki, a former participant in CS Principles Code.org Professional Learning Program, reached out to Dr. Minh Mai from CREATE (Center For Research On Educational Equity, Assessment & Teaching Excellence) who collaborated with Christine Alvarado, CSE professor and Associate Dean of the Division of Undergraduate Education, to coordinate the event. The tour was the latest of many CSE community endeavors in support of [diversity, equity and inclusion](#).

**CENTER FOR NETWORKED SYSTEMS****Five CNS Faculty Papers Presented at IMC**

UC San Diego's [Center for Networked Systems](#) (CNS) was well-represented at the 2022 ACM Internet Measurement Conference (IMC) with an impressive five faculty papers presented. The three-day event, held in Nice, France, was sponsored by ACM Special Interest Group on Data Communication (SIGCOMM) and provided a professional forum for scientists, engineers, educators and students to discuss Internet measurement and analysis.

CNS's conference papers included:

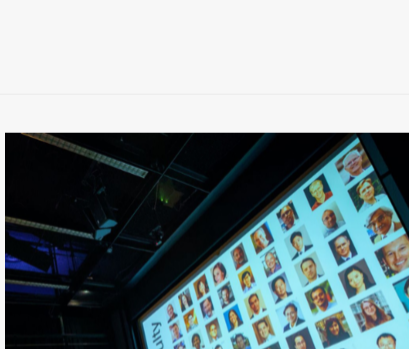
[Where .ru? Assessing the Impact of Conflict on Russian Domain Infrastructure](#) by Mattijs Jonker, Gautam Akiwate, Antonia Affinito, KC Claffy, Alessio Botta, Geoffrey Voelker, Roland Van Rijswijk-Deij and Stefan Savage.

[Investigating the impact of DDoS attacks on DNS infrastructure](#) by Raffaele Sommese, KC Claffy, Roland Van Rijswijk-Deij, Arnab Chattopadhyay, Alberto Dainotti, Anna Sperotto and Mattijs Jonker.

[Mind Your MANRS: Measuring the MANRS Ecosystem](#) by Ben Du, Cecilia Testart, Romain Fontugne, Gautam Akiwate, Alex C. Snoeren and KC Claffy.

[Retroactive Identification of Targeted DNS Infrastructure Hijacking](#) by Gautam Akiwate, Raffaele Sommese, Mattijs Jonker, Zakir Durumeric, KC Claffy, Geoffrey M. Voelker and Stefan Savage.

[Measuring UID Smuggling in the Wild](#) by Audrey Randall, Peter Snyder, Alisha Ukani, Alex C. Snoeren, Geoffrey M. Voelker, Stefan Savage and Aaron Schulman

**CONTEXTUAL ROBOTICS INSTITUTE**

Director Henrik Christensen discusses the future of CRI.

**CRI Introduces Impressive New Research and Lab**

Researchers from UC San Diego's [Contextual Robotics Institute](#) (CRI) presented an impressive 16 papers at IROS 2022, an international forum exploring the frontier of science and technology in intelligent robots and smart machines. CSE's Assistant Professor Sean Gao was among the presenters, sharing his paper, [Quantifying Safety of Learning-based Self-Driving Control Using Almost-Barrier Functions](#). Gao's study quantitatively analyzes the safety of deep neural controllers for path-tracking of self-driving vehicles.

Led by CRI Director and CSE Professor Henrik Christensen, CRI is a collaborative of university researchers working to solve pressing robotics challenges in three areas: autonomously systems, cyber-physical technologies, and medical robotics. The institute recently moved into UC San Diego's new Franklin Antonio Hall, a state-of-the-art research facility.

**CSE COMMUNITY & EVENTS****CSE Carves Out Time for Halloween Fun**

Who knew pumpkin carving was a team sport? At CSE's Halloween party, sponsored by the CSE Staff Social Committee, students enjoyed holiday treats while competing in teams for best carved pumpkin. Students were also recognized for best costume.

**Let us know what's newsworthy.** We want to hear from you about the projects and people (including students) we should include in newsletters, articles and the CSE website. Let us know what's up at [cse-communications@eng.ucsd.edu](mailto:cse-communications@eng.ucsd.edu).

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