

CSE NEWSLETTER: A LOOK INSIDE THE DEPARTMENT

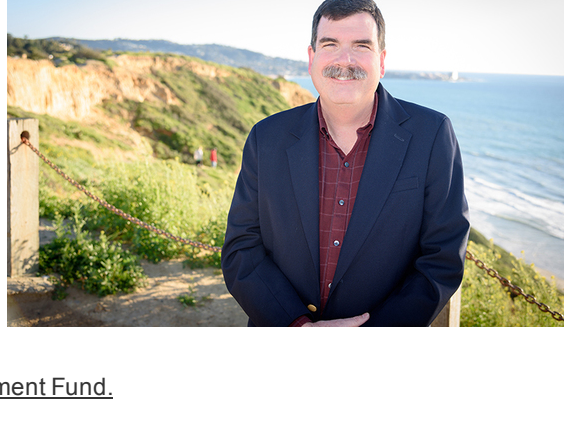
Message from the Chair

We don't have much seasonal change in San Diego, but we do get new beginnings. That's what makes the unfolding school year so exciting – the renewed opportunities.

As students and faculty reengage in their academic pursuits, we can look forward to another fruitful year. But before we go there, we still have a little summer unpacking to do. There were alumni reunion/Rick Ord farewell parties along the West Coast. Also, see more below on the [Rick Ord Educational Excellence Endowment Fund](#).

We also welcomed new faculty, celebrated grant support and extended our academic horizons with one of the most popular massive open online courses (MOOCs).

For more news, in real time, you can follow our [Twitter](#), [Facebook](#) and [LinkedIn](#) and [Instagram](#) feeds . If you have news to share, story ideas or comments for our CSE Communications Team, please send them to newsworthy@cs.ucsd.edu.



NEWS FROM CSE

Kicking Off a New School Year

More than 6,000 new UC San Diego students gathered at RIMAC Field on September 24 for the 2019 New Student Welcome Convocation. Check out scenes from the event below.



Welcoming New Faculty

Introducing new faculty to CSE is an important rite of fall. It signals an upcoming school year and new ideas and research recirculating through the department. Welcome to CSE, we're excited to see you!



Albert Chern



Nadia Heninger



Rob Knight



Niema Moshiri



Pat Pannuto



Jingbo Shang



Gerald Soosai Raj



Yiying Zhang

NIH Grant for Neuromodulation Device

Associate professor **Hadi Esmailzadeh** and Babak Mahmoudi, an assistant professor at Emory University, have received a \$ 1.6 million NIH grant to design medical devices, armed with artificial intelligence, to optimize neuromodulation. The goal is to enhance memory, as memory loss is one of the major effects of Alzheimer's and other neurodegenerative conditions .

Claffy Enters the Internet Hall of Fame

Congratulations to **KC Claffy**, who was recently inducted into the [Internet Hall of Fame](#) for her work on Internet analysis and measurement. Claffy founded and directs the Center for Applied Internet Data Analysis, conducts research at the San Diego Supercomputer Center and is an adjunct professor with CSE.



CSE Community in Action

The Rick Ord Educational Excellence Fund

In May, **Taner Halicioglu '96**, announced he would create a giving challenge for the [Rick Ord Educational Excellence Endowment Fund](#), which supports lecturers and undergraduates. Taner will match the first \$50,000 donated to the fund to create scholarships for CSE students. To make the giving challenge even more exciting, Rick has offered to mail swag he's accumulated through his 36 years on campus to anyone who makes a significant gift (while supplies last).

Rick's Fantastic Farewell Tour

After a four-stop tour, Rick Ord's retirement roadshow finally came to an official end earlier this month. Events started in May on campus before making stops in Seattle, the Bay Area and back to San Diego. CSE sent Rick off with tie-dyed t-shirts, frisbees, photo books and words of encouragement. The events gave more than 400 former students, colleagues and friends an opportunity to thank Rick for his teaching, mentorship and 36+ years of service at UC San Diego and CSE. Here are some images from the September 7th, UCSD event.



MOOC Milestone

CSE's [Algorithmic Toolbox](#) is one of Coursera's top massive open online courses (MOOCs). With more than 150,000 enrollees, and a 4.7 rating (out of 5), Algorithmic Toolbox is in the top ten. The class is the first of six in the [Data Structures and Algorithms Specialization](#), which culminates with students programming a genome assembler.

Adding Code to High School STEM Classes

[Bootstrap](#) gives high school teachers better tools to integrate computing into their classrooms. The Computer Science and Engineering (CSE) Department at UC San Diego's Jacobs School of Engineering has been part of the program for nearly a decade. In early August, CSE assistant teaching professor Joseph Politz led a group of San Diego Unified School District math and science teachers through a three-day seminar.

CENTER FOR NETWORKED SYSTEMS



Research Highlights and Scholarship News

Testing Cybersecurity

Nadia Heninger has found hundreds of vulnerable Bitcoin private encryption keys, and dozens of vulnerable Ethereum, Ripple, SSH and HTTPS keys, by carrying out cryptanalytic attacks. The Elliptic Curve Digital Signature Algorithm (ECDSA) requires a random number (nonce) for each message. The nonce must be generated perfectly uniformly to defend against attackers. In this [work](#), she and collaborators used a lattice-based algorithm to find vulnerabilities.

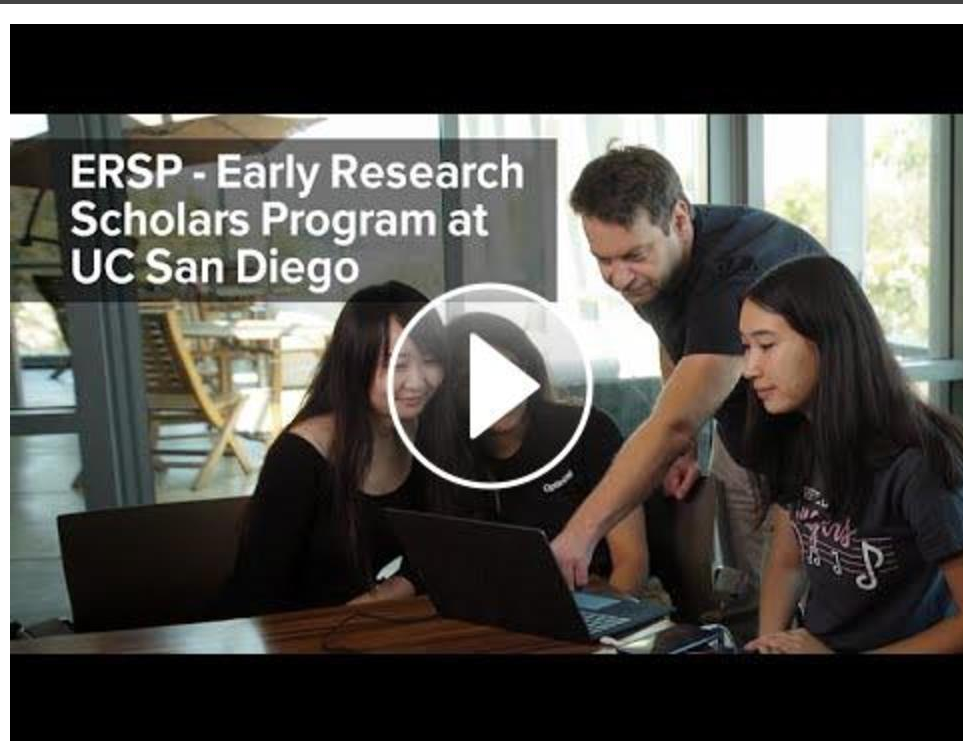
Assessing Weather Threats to Internet Infrastructure

Weather is a major threat to vital infrastructure; however, the weather's effects on last-mile Internet outages are poorly understood. **Aaron Schulman's** group, collaborating with **Ramakrishna Padmanabhan**, is attempting to quantify weather's impact on residential outages. The lab performs large-scale studies, looking at eight years of active outage measurements across the bulk of U.S. last-mile Internet infrastructure.

The Alan Turing Memorial Scholarship

The Center for Networked Systems is now accepting applications for the [Alan Turing Memorial Scholarship](#). UCSD undergraduates majoring in computer science or computer engineering, public policy, communications or other disciplines who actively support the LGBTQ community are eligible. Students must demonstrate academic merit and financial need and have a strong interest in research. Applications for the 2020-2021 academic year are due by the end of January 2020.

CSE TV HIGHLIGHT



SAVE THE DATE

Apple Info Session + Resume Review – October 8

WIC ProDev Workshop; Undergraduate Internship Search – October 9

Honey Recruiting Info Session – October 15

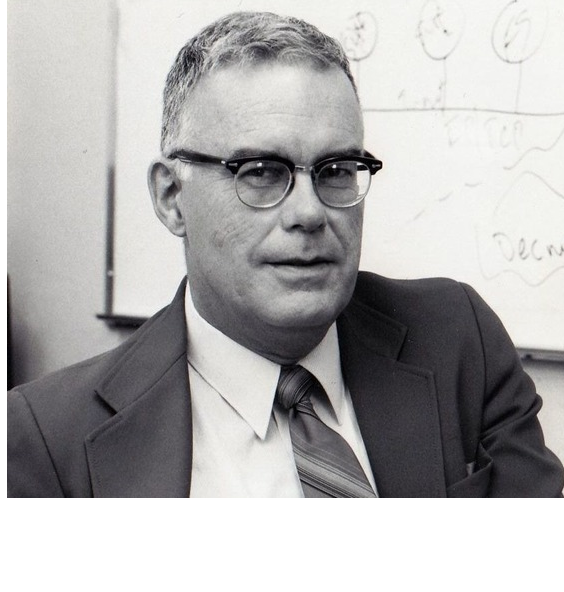
UC San Diego Homecoming Weekend – October 18

Pascal Group Reunion honoring Kenneth Bowles (right) – October 19

Twilio AMA: Early in Career Programs & Info Session – October 22

CSE Alumni Reception at SD Hacks – October 25

Sixth Annual Contextual Robotics Forum – November 7



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 newsworthy@cs.ucsd.edu.

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