Announcements

McKelvey School of Engineering Honors Ceremony

The McKelvey School of Engineering will be hosting their annual honors ceremony on Wednesday, April 17, 2019. The ceremony will begin at 4:00 p.m. in the Whitaker Auditorium, and a reception will follow in the Whitaker Atrium. Department Chairs will present department awards to their top students, as well to a faculty member, who will receive the “Department Chair Awards for Outstanding Teaching”.

The 8th Midwest Workshop of Control Game Theory

The Electrical and Systems Engineering department is proud to announce that Drs. Jr-Shin Li, Shen Zeng, ShiNung Ching, and Bruno Sinopoli will be participating in The 8th Midwest Workshop of Control Game Theory. The workshop is to be held April 27-28 2019 in Whitaker Hall, Room 100 Whitaker Auditorium.

Huifeng Zhu from Prof. Xuan ‘Silvia’ Zhang’s research group won the Best Paper Award of 2019 DATE Conference

A recently accepted paper from Prof. Xuan ‘Silvia’ Zhang’s research group (XZ Group), titled “When Capacitors Attack: Formal Method Driven Design and Detection of Charge-Domain Trojans”, distinguished out of a total of 834 paper submissions and won the Best Paper Award in 2019 Design, Automation & Test in Europe (DATE) conference, one of the top conferences on electronic design automation (EDA). This paper focuses on addressing the emerging threats of analog-domain hardware Trojans in modern integrated circuit systems. Compared to traditional digital Trojans, analog-domain Trojans utilize the analog properties of the underlying circuits to perform attacks, hitting the blind point of existing defense techniques. The formal-method driven approach proposed in the paper represents a first step towards systemically mitigating such vulnerabilities. This came out of collaborative work between Washington University and University of Florida. First-year graduate student Huifeng Zhu from Prof. Xuan ‘Silvia’ Zhang’s group is the co-first author of the paper, and other lead authors include Dr. Xiaolong Guo and Prof. Yier Jin from University of Florida. The authors will receive this prestigious award at DATE 2019 Conference held in Florence on Wednesday March 27.

Chakrabartty Featured in IEEE SSCS Chip Chat

ESE Faculty Member, Dr. Shantanu Chakrabartty was recently featured in a recent IEEE SSCS Chip Chat. The IEEE SSCS Chip Chat is a series of interviews with people behind the magic to integrated circuits. Click here to listen to the ITunes podcast.
Villa Awarded 50,000 Computer Hours by Extreme Science and Engineering Discovery Environment

Dr. Umberto Villa was awarded 50,000 computer hours by the Extreme Science and Engineering Discovery Environment (XSEDE, [https://www.xsede.org/](https://www.xsede.org/)) to seamlessly embrace the learning by doing philosophy in the “Computational Methods for Imaging Science” course he is teaching this semester. To expedite learning and students’ hands-on experience with the theory and algorithms presented in class, Dr. Villa is employing hIPPYlib ([https://github.io](https://github.io)), a software framework for the solution of deterministic and Bayesian inverse problems he developed at UT Austin. hIPPYlib is implemented in a mixture of C++ and Python and offers interactive tutorials that mix instruction and theory with editable and runnable code. Thanks to this software framework, students are exposed to many of the mathematical and computational issues underlying the numerical solution of inverse problems without significant coding effort. Thanks to the resources (whose estimated value is $7,445.00) awarded by NSF, Dr. Villa was able to deploy the hIPPYlib software framework via Docker containers on the Jetstream cloud computing resources, thus allowing students to experiment with it and solve homework assignments directly from their web browsers without the nuisance of installing the software.

Reminders
Upcoming Dates to Remember

April 1-12- Engineering Advising Period for Fall 2019 registration
April 2- Career Services: Tailoring CVs and Resumes, Farrell Learning and Teaching Center, Room 402 * Graduate Student Series
April 5- Career Services: General Motors Assembly Plant Visit, For details please see [Career Link](#)
April 5- Career Services: Tailoring CVs and Resumes, Danforth University Center, Room 233 * Graduate Student Series
April 5 - Last day for Spring 2019 course withdraws (unless Health Services recommendation). Last day to change Spring 2019 course grade option from Pass/Fail status to “C” option (i.e. “Credit/letter grade”) via WebSTAC until 9 p.m.
April 9- Career Services: Interviewing and Acing Questions, Farrell Learning and Teaching Center Room 402 * Graduate Student Series
April 9- Career Services: Making the Most of Summer Internships, Click [here](#) for details
April 12- Interviewing and Acing Questions, Danforth University Center, Room 233 * Graduate Student Series
April 15- Last day to add students to the SP19 degree list
April 16- Online registration begins, check to see when your class can start registering
April 16- Evaluating & Negotiating Job Offers, Farrell Learning Center, Room 402 * Graduate Student Services
April 19- Evaluating & Negotiating Job Offers, Danforth University Center, Room 233 * Graduate Student Series
April 22- Deadline for ALL Graduate students to submit theses/dissertations in final form for Spring 2019 (including PhD students)

Seminars

April 4- [ESE Seminar](#): Konstantinos Gatsis PhD, Green Hall, Room 0120 Rodin Auditorium, 10:00 a.m.
April 11- [ESE Seminar](#): Nelson Tansu PhD, Green Hall, Room 0120 Rodin Auditorium, 10:00 a.m.
April 18- [ESE Seminar](#): Steve Brunton PhD, Green Hall, Room 0120 Rodin Auditorium, 10:00 a.m.
April 25- [ESE Seminar](#): Chuan Wang PhD, Green Hall, Room 0120 Rodin Auditorium, 10:00 a.m.