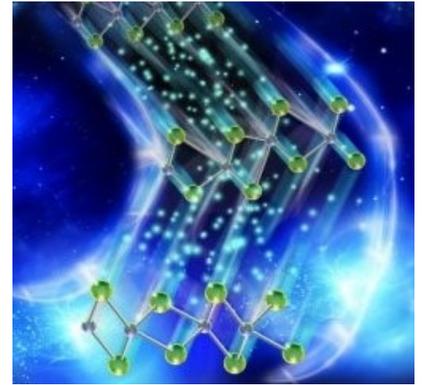


## Data usage draining your battery? This tiny device based on 2-dimensional materials may speed up your memory while also saving power.

A Purdue team led by Prof. Jeorg Appenzeller and Ph.D. candidate [Feng Zhang](#) built a MoTe<sub>2</sub>-based resistive random access memory (RRAM) that operates via an electric field-induced structural transition. With a switching speed of less than 5 ns, the device may also offer improved reliability over conventional RRAMs. Read more about this nCORE NEW LIMITS research [here](#) and [here](#) »



## 2018 ACM Fellows honored for pivotal achievements that underpin the digital age

JUMP PI Prof. Rastislav Bodik of Univ. of Washington was recognized *for transformative contributions to program synthesis*. [Read More](#) » Members can learn about his active SRC research in the CONIX Center [here](#) »



## JUMP PI, Prof. Adve, lectured at TECHfest IITB in Mumbai

[Techfest](#) is Asia's largest science and technology festival, and attracted about 175,000 people in 2017. This year Dalai Lama, a Nobel Peace Prize winner, and Anima Anandkumar, the Director of ML research at NVIDIA, spoke alongside Prof. Adve. Sarita's research interests are at the hardware-software interface and her work has spanned computer architecture, programming languages, operating systems, and applications. Her current SRC research in the ADA Center can be found [here](#) »



## C-BRIC student won the Best Student Paper Award at M2VIP

Aqeel Anwar's contribution to the 25th IEEE Conference on Mechatronics and Machine Vision in Practice (M2VIP) was "*NAVREN-RL: Learning to Fly in Real Environment via End-To-End Deep Reinforcement Learning Using Monocular Images*." It focuses on the challenges posed by the implementation of reinforcement learning for the autonomous navigation of low cost drones with limited computational capability in real environments. [Read More](#) »

## University of Virginia was selected as a JUMP Undergraduate Research Initiative (URI) cohort.



URI is an academic year long program that both exposes undergraduates to career opportunities associated with JUMP sponsors, and illustrates the benefits of obtaining an advanced degree in microelectronics or computer science. It combines a structured undergraduate research experience with PhD student and faculty mentorship. URI cohorts emphasize US citizens, diverse, and gender candidates. Each fall, a subset of URI fellows will be invited to [SRC's TECHCON student showcase](#) to share and enrich their URI experience. Learn more about URI [here](#) »

## JUMP PI, Prof. Gupta elected [AAAS Fellow](#) in Information, Computing & Communication.



The American Association for the Advancement of Science has bestowed upon Prof. Gupta of the Department of Computer Science & Engineering at UC San Diego the lifetime honor of elected Fellow in recognition for his extraordinary achievements and advancement of science. Rajesh is an active SRC researcher in the [CONIX center](#). Members can learn about his active research [here](#) »

## The newly elevated IEEE Fellow class has been announced.



IEEE fellow is a distinction reserved for select members whose extraordinary accomplishments in any IEEE fields of interest are deemed worthy of the prestigious grade elevation. The 2019 class includes several faculty that are active SRC researchers. Kudos to Elad Alon (UC Berkeley), Hossein Hashemi (USC), Sayeef Salahuddin (UC Berkeley), Chris Hyung-II Kim (U Minnesota), Deming Chen (UIUC), Onur Mutlu (CMU and ETH Zurich) and Farinaz Koushanfar (UC San Diego)! Members can learn more about their active research below.

- [Elad Alon](#) (UC/Berkeley) - *for contributions to mixed-signal integrated circuit design and methodology*
- [Hossein Hashemi](#) (USC) - *for development of radio-frequency and optical phased-array integrated circuits*
- [Sayeef Salahuddin](#) (UC/Berkeley) - *for contributions to low power electronic and spintronic devices*
- [Chris Hyung-II Kim](#) (U/Minnesota) - *for contributions to on-chip circuit reliability evaluation and characterization*
- [Deming Chen](#) (UIUC) *for contributions to field-programmable gate array high-level synthesis*
- [Onur Mutlu](#) (CMU & ETH Zürich) *for contributions to computer architecture research and practice*
- [Farinaz Koushanfar](#) (UC/San Diego) *for contributions to hardware and embedded systems security and to privacy-preserving computing*

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