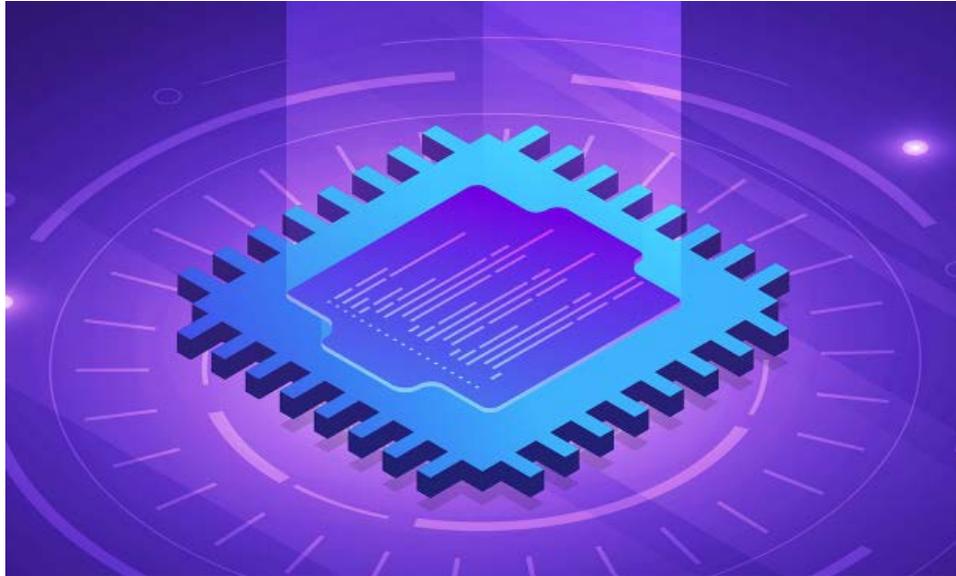


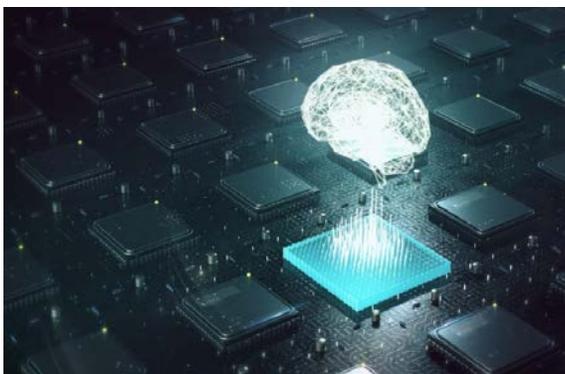
**New Optimization Chip Tackles Machine Learning, 5G Routing.** [Read More »](#)



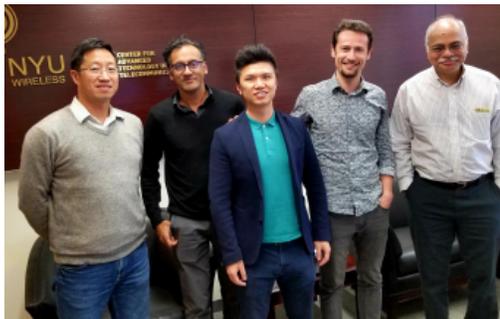
**ADA Director Bertacco recognized with Harold R. Johnson Diversity Award**

Congratulations to ADA Director, Prof. Valeria Bertacco, whose service has contributed to the development of a culturally and ethnically diverse University of Michigan community. She was recognized by the Office of the Provost with a 2019 Harold R. Johnson Diversity Service Award, given in honor of Harold Johnson, dean emeritus of the Univ. of Michigan School of Social Work. [Read More »](#)

**Magnets can help AI get closer to the efficiency of the human brain.**

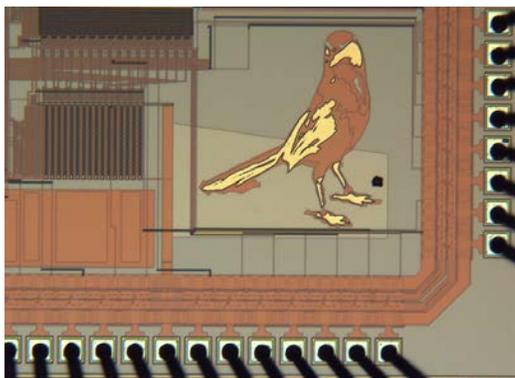


Researchers in the Center for Brain-inspired Computing (or C-BRIC) have developed a process using magnetic tunnel junctions and brain-like networks that may improve the generalization of objects. A new training algorithm uses spike timing dependent plasticity (STDP), or Stochastic-STDP, which has been experimentally observed in a rat hippocampus. The inherent stochastic behavior of MTJs are used to switch states with the proposed algorithm to learn object representations. The work aligns well with Purdue's Giant Leaps celebration, acknowledging the university's global advancements in AI as part of the school's 150th anniversary. [Read More »](#)



## ComSenTer's first doctoral graduate explores TCP improvements for Low Latency Networks.

Menglei Zhang became ComSenTer's very first doctoral graduate after defending his Ph.D. thesis at New York University on April 18th in front of an audience of his thesis committee and invited students. In his thesis "*Will TCP work in Low Latency Networks*," Zhang evaluated the performance of traditional TCP and new congestion control algorithms in low latency networks. See Zhang, et al. "[Will TCP Work in mmWave 5G Cellular Networks?](#)" in IEEE Communications Magazine 57.1 (2019): 65-71 for a small taste of his larger thesis work.



## nCORE team wins GLSVLSI 2019 Best Paper Award.

Prof. Deliang Fan, Univ. of Central Florida and his PhD student, Shaahin Angizi received a best paper award at the 29<sup>th</sup> edition of the ACM Great Lakes Symposium ([GLSVLSI](#)) in Washington, DC earlier this month for their paper "*GraphiDe: A Graph Processing Accelerator leveraging In-DRAM-Computing*". [Read More](#) »



## CONIX Ph.D. Students from UCLA Win Best Demo Award at ACM's IoTDI 2019

Graduate students Sandeep Singh Sandha, Joseph Noor, and Luis Garcia, led by faculty advisor Mani Srivastava, won the [IoTDI](#) Best Demo Award for *DDFlow - Visualized Declarative Programming for Heterogeneous IoT Networks*. DDFlow is a macro-programming abstraction and accompanying runtime that provides an efficient means to program high-quality distributed applications that span a diverse and dynamic IoT network. Using DDFlow leads to portable, visualizable, and intuitive applications. [Read More](#) »



## C-BRIC Prof. Naveen Verma presenting ideas to shape future cities via City-Scale Sensing.

Emphasizing the New York-Philadelphia corridor's strong innovation ecosystem, a Princeton-led conference, "*Building the Future: New Technological Frontiers in Cities*", brought together representatives from academia, industry, and government to discuss research and policies about future cities. The conference highlighted Princeton's new metropolis project, which supports research into systems and technologies that will shape sustainable, resilient, livable and equitable cities. Speakers and panelists, such as Prof. Verma, indicated that the ways cities cope with urban growth and planning will be one of the most critical decisions facing global leaders. [Read More](#) »

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