

ECE 2024 SPRING NEWSLETTER

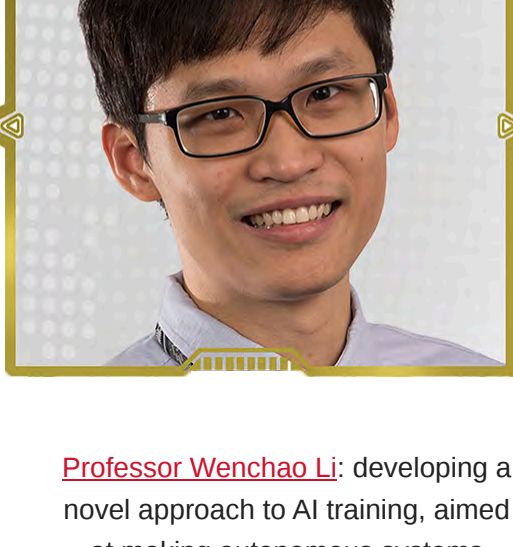
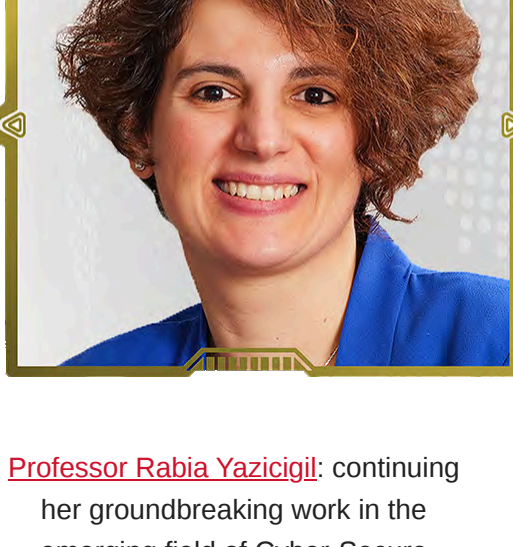
SAVE THE DATE

ECE DAY 2024

Friday, May 3



NSF CAREER AWARDS



Professor Rabia Yazicigil: continuing her groundbreaking work in the emerging field of Cyber-Secure Biological Systems (CSBS).

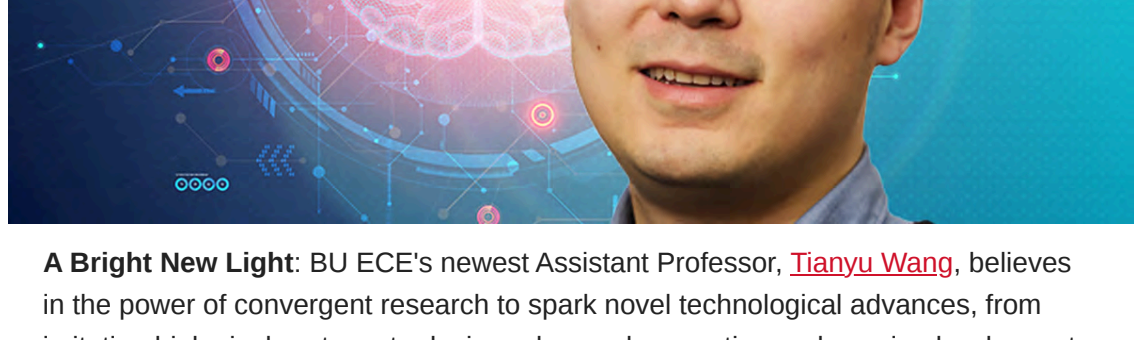
Professor Wenchao Li: developing a novel approach to AI training, aimed at making autonomous systems more trustworthy and accurate.

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INTRODUCING NEW FACULTY



A Bright New Light: BU ECE's newest Assistant Professor, **Tianyu Wang**, believes in the power of convergent research to spark novel technological advances, from imitating biological systems to design advanced computing and sensing hardware, to exploring the use of AI for physical science research.

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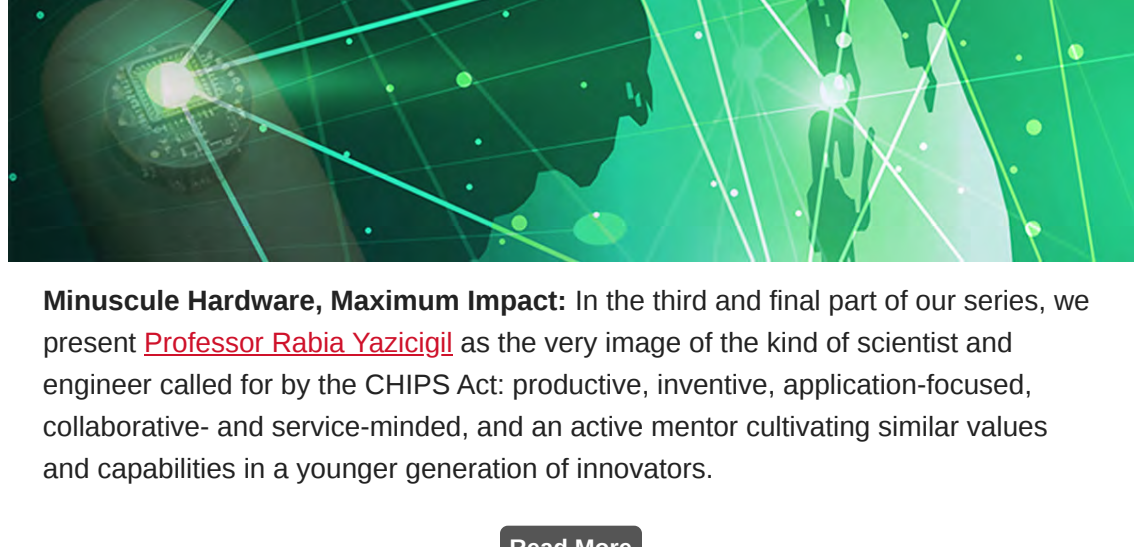


CHIPPING IN



The Computing Power of Light: In Part Two of our series highlighting BU ECE's contributions to research and education under the umbrella of the CHIPS and Science Act of 2022, **Professor Miloš Popović** builds on more than a decade of pioneering work to drive semiconductor technology into the opto-electronic future alongside a new generation of leaders- and innovators-in-training.

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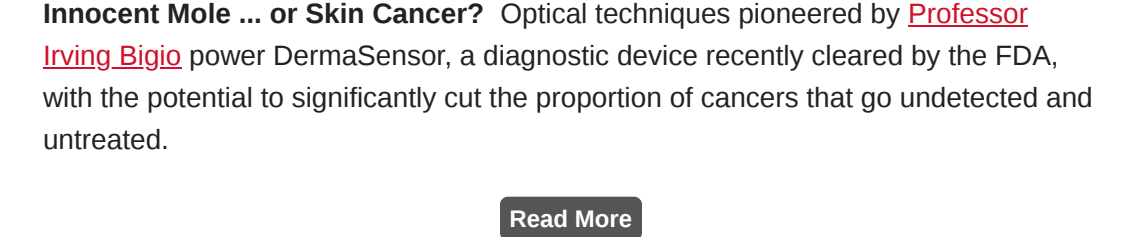


Minuscule Hardware, Maximum Impact: In the third and final part of our series, we present **Professor Rabia Yazicigil** as the very image of the kind of scientist and engineer called for by the CHIPS Act: productive, inventive, application-focused, collaborative- and service-minded, and an active mentor cultivating similar values and capabilities in a younger generation of innovators.

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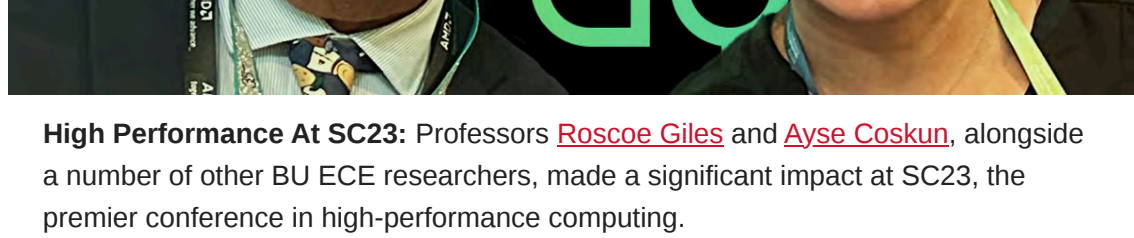


IMPACTFUL INNOVATION



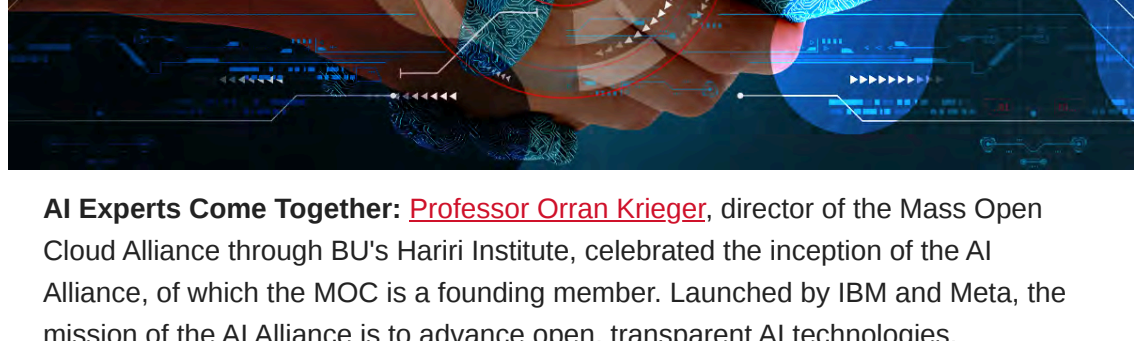
Innocent Mole ... or Skin Cancer? Optical techniques pioneered by **Professor Irving Bigio** power DermaSensor, a diagnostic device recently cleared by the FDA, with the potential to significantly cut the proportion of cancers that go undetected and untreated.

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High Performance At SC23: Professors **Roscoe Giles** and **Ayse Coskun**, alongside a number of other BU ECE researchers, made a significant impact at SC23, the premier conference in high-performance computing.

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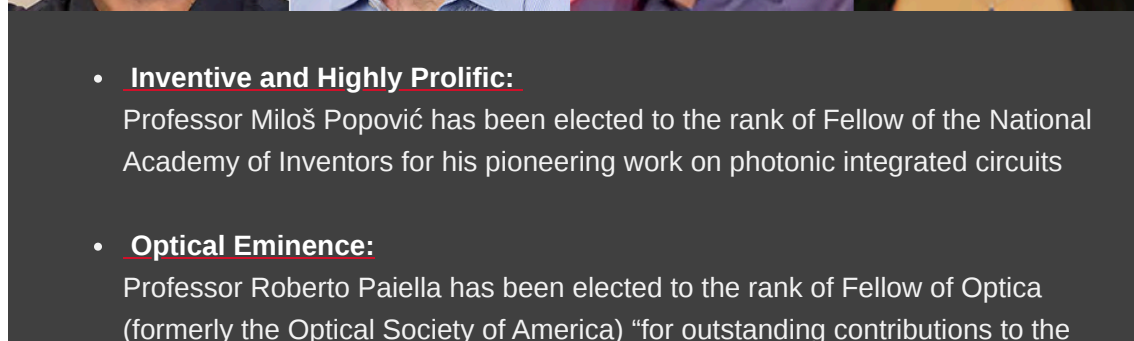


AI Experts Come Together: **Professor Orran Krieger**, director of the Mass Open Cloud Alliance through BU's Hariri Institute, celebrated the inception of the AI Alliance, of which the MOC is a founding member. Launched by IBM and Meta, the mission of the AI Alliance is to advance open, transparent AI technologies.

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ACHIEVEMENTS



- Inventive and Highly Prolific:** Professor Miloš Popović has been elected to the rank of Fellow of the National Academy of Inventors for his pioneering work on photonic integrated circuits
- Optical Eminence:** Professor Roberto Paiella has been elected to the rank of Fellow of Optica (formerly the Optical Society of America) "for outstanding contributions to the development of novel optoelectronic devices based on quantum-confined systems and photonic nanostructures."
- A Noted Innovator:** Professor Ji-Xin Cheng has been honored with a 2024 Biophotonics Technology Innovator Award by SPIE, in recognition of his innovative and commercially viable work with mid-infrared photothermal microscopy.
- Data Science Fellow:** Professor Archana Venkataraman has been selected by BU's Faculty of Computing & Data Sciences to their 2023-24 cohort of Faculty Fellows, a program geared in large part towards supporting recent recruits to the BU faculty whose research shows significant promise.

Distinguished Faculty

- 4 National Academy Members
- 3 Current/Former IEEE Society Presidents
- 50 Society Fellows
- 30 NSF, DOE and DOD Early Career Awards
- 40 Average H-Index per Faculty
- 8,500 Average Number of Citations per Faculty
- 51 Tenure-Track Faculty

RESEARCH FUNDING



See the Impact Report for more!

Upcoming BU ECE Events