BU ECE NEWSLETTER, FALL 2018

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To develop new, and leverage existing, models at every scale.

Professor Enrico Bellotti establishes a new **Center for Semiconductor Materials and Devices Modeling (CSM)** at Boston University in collaboration with the Army Research Laboratory (ARL). The center brings together government, academia, and industry in a collaborative effort to address research opportunities through its Open Campus initiative.

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National Science Foundation (NSF) awards a $1M grant to study the tools for analyzing public communication in over 100 languages. Because language hurdles currently limit analytic methods for studying textual and visual public information worldwide, Professor Prakash Ishwar, as part of an interdisciplinary team, aims to solve data analytics problems in the domain of international public information flows.

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ECE Professor Ioannis Paschalidis leads a new interdisciplinary project aimed at **predicting heart disease and diabetes using machine learning.** The $900k grant funded by the National Science Foundation (NSF) will allow his team to develop and pilot a health informatics system to predict patients at risk of heart disease or diabetes and enable early intervention and personalized treatment.

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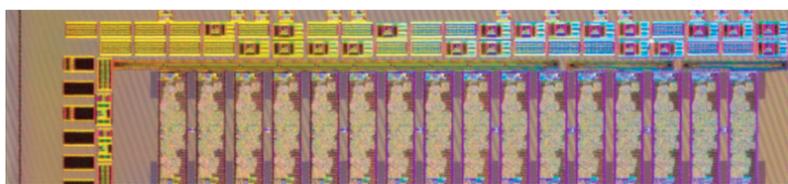
Researchers illuminate the path to a new era of microelectronics. Assistant Professor Milos Popovic, in his contribution to an approach that shows promise for realizing high-speed, low-power optoelectronic technology, says "instead of a single wire carrying around 10 gigabits per second, you can have a single optical fiber carrying 10 to 20 terabits per second—so a thousand times more in the same footprint."
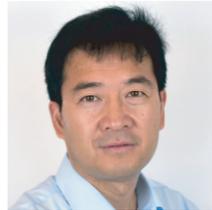
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Scientific American named Assistant Professor Sahar Sharifzadeh one of the 11 Rising Stars of Science. She and her students are developing molecular models of new electronic materials. At the same time, she serves as a role model to young women and girls as a successful scientist in a STEM career—and is the mother of a one-year-old future nanotechnologist.

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The Optical Society Elects Professor Ji-Xin Cheng as Fellow for outstanding contributions to invention and development of label-free optical spectroscopic imaging technologies with groundbreaking applications to biology, medicine and materials science.

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4TH

Ranked 4th Best from early to mid career **Salary Increase**

Source: PayScale.com

Distinguished Faculty

2 National Academy Members
3 Current/Former IEEE Society Presidents
29 Society Fellows
24 Early-Career Awards
30 Average H-Index per Faculty
5,000 Average Number of Citations per Faculty
54 Tenure-Track Faculty

Research Funding Growth

↑**14%**

AVERAGE ANNUAL GROWTH RATE OVER 10 YEARS

$30M
$20M
$10M

$9M $16M $27M
2008   2013   2018

Upcoming BU ECE Events