



BOSTON
UNIVERSITY

2025-2026



CENTER FOR INFORMATION
& SYSTEMS ENGINEERING

**Center for Information
& Systems Engineering
(CISE)**

Annual Impact Report

*Transforming Tomorrow:
Forging Interdisciplinary
Research and Building
Convergent Alliances*

**This report provides an overview of CISE
activities and notable initiatives during
the past fiscal year (2025-2026).**

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EXECUTIVE SUMMARY

The Center for Information & Systems Engineering (CISE) is a dynamic research hub for the Boston University College of Engineering (ENG), promoting convergent research through an interdisciplinary community of faculty affiliates. The CISE community includes members from BU's College of Engineering (ENG), College of Arts and Sciences (CAS), and Questrom School of Business (Questrom), spanning **14 academic disciplines**. CISE further benefits from cross-disciplinary collaboration opportunities as part of the Hariri Institute's federation of centers and initiatives.

CISE's mission is to advance interdisciplinary research centered on the study and design of intelligent systems. The Center drives innovation across data science, artificial intelligence, machine learning, control systems, networks, and automation, tackling major challenges in industries such as healthcare, communications, energy, and national security.

FY25-26 was a year of sustained growth and impact. CISE currently manages **40 high-profile grants** and its grant portfolio resulted in over **\$16.9 million in research expenditures**. CISE faculty affiliates secured new awards for their research in artificial intelligence, high-performance computing, biosensing, and infrastructure optimization, while the Center's support for collaborative proposals helped generate millions of dollars in new grants and sub-awards this year. Together, these efforts reinforced the University's leadership in intelligent systems research and expanded the Center's role in translating convergent research into real-world impact.

Beyond research funding, CISE convened its community through **23 events** reaching more than **1,600 attendees**, including its signature Fall Workshop and the 12th annual Graduate Student Workshop, which brought together students, faculty, and industry leaders to share original research and build connections. The Center also continued to invest directly in its people through PhD scholar awards and mentorship programs, while its faculty earned national recognition through prestigious awards and over **200 publications** in leading journals.

"CISE continues to serve as a catalyst for research on intelligent systems, bringing together researchers with diverse expertise to build impactful collaborations that span disciplines. This mission reflects CISE's foundation as a convergent research center and aligns closely with Boston University's university-wide convergence initiative. This year, we hosted the third annual CISE Fall Workshop, focused on power grids—an increasingly important area that highlights synergies across AI, systems, optimization, and energy research. We also completed the third year of the CISE PhD Scholars Program, further strengthening student engagement, while expanding industry partnerships and participation across our activities. Together, these efforts continue to grow our community, spark new collaborations, and advance high-impact research, and we look forward to building on this momentum in the years ahead."

- Ayşe Coşkun, CISE Director

OUR YEAR IN NUMBERS

200+

Faculty Publications

\$16.9M

Annual Research Expenditure

40+

Grants Managed

11

Major Faculty
Accolades

56

Faculty Affiliates

14

Academic Units

23

Events

18

CISE-Authored News Articles

GRANTS AND FUNDING MANAGEMENT

CISE submits proposals and manages awards from affiliated faculty in the College of Engineering (ECE, ME, BME, SE), the College of Arts and Sciences, and the Questrom School of Business. CISE staff manage pre- and post-award processes with the Office of Research and Office of Special Programs, allowing faculty to focus on research.

The Center also awards seed grants to affiliated faculty to spark new collaborations and emerging research directions. The program supports faculty by funding graduate student researchers on projects that show strong potential for future external funding and are designed to generate initial results, proof of concept, or significant preliminary data collection.

In FY25-26, CISE's grant portfolio (administered or in conjunction) resulted in over **\$16.9 million** in research expenditures. CISE currently manages **40 active, high-profile grants** spanning **8 federal agencies and 11 industry and foundational organizations**.

For FY25-26 proposals, 57% of CISE affiliates applied (as PI or co-PI) for **\$138,754,350.77** in total project funding. CISE also submits collaborative proposals with other BU departments and centers to leverage divergent faculty expertise across critical research areas. This fiscal year, CISE faculty affiliate collaborations yielded **11 new grants totaling \$4,333,564 and 8 sub-award grants totaling \$1,378,573**.

Faculty research areas include: Automation and Control, Computational Biology & Medicine, Computational Imaging, Computer Architecture, Cyber-Physical Systems, Data Science, AI & Machine Learning, Energy Efficiency, High Performance Computing, Information Sciences, Networks, Robotics & Multi-Agent Systems, Security, and Theory & Algorithms.

Grant Highlights



AI-Powered Performance Analytics for Heterogeneous HPC Systems - a \$195,651 grant continuing a \$863,777 project (\$1,059,428 total). This project develops AI-driven frameworks and human-in-the-loop methods to diagnose and mitigate performance anomalies in complex HPC systems (CPUs, GPUs, diverse memory/storage), improving efficiency, resilience, and security.

PI: Ayşe Coşkun; **Co-PIs:** Manuel Egele, Brian Kulis

CIF: Small: Atmospheric Absorption-Based Computational Sensing - a \$600,000 grant to expand long-wave infrared (LWIR) light sensing, such as 3D imaging and remote air composition/temperature sensing, with applications in security, navigation, pollution monitoring, and aeronautical safety. This project combines physics-based modeling with learning-based methods to improve passive ranging and enable remote measurement of air temperature and gas concentrations. **PI:** Vivek Goyal



Biomade: In-Fermenter Cell Datastreams: Wireless Networks of Free-Floating Microbial Electronic Sensors - a \$449,999 grant to develop wireless, free-floating biosensors that track microbial health inside fermentation tanks in real time — critical for producing medicines, biofuels, and food ingredients. The sensors pair engineered microbes that emit light under cellular stress with embedded electronics, enabling non-invasive monitoring and improved biomanufacturing control. The project also trains students across synthetic biology, semiconductors, and biomanufacturing. **PI:** Rabia Yazicigil; **Co-PI:** Miguel Jimenez

Contribution of Microvascular Alterations to Tau Pathology in AD and CTE

- a \$449,657 grant studying how microvascular dysfunction contributes to tau tangle development in Alzheimer's and CTE. The researchers will use an advanced sequencing technique called spatial transcriptomics (the study of where in the brain certain genes are turned "on" or "off") to study gene activity differences in brain cells in the hippocampus and frontal lobe of individuals affected by Alzheimer's or CTE. The team will also use machine learning to investigate their digital library of brain tissue images for subtle microvascular changes imperceptible to the human eye. **PI:** Ann McKee;

Co-PI: Lei Tian, Jesse Mez





Collaborative Research: Ascent: Heterogeneously Integrated Electronic Photonic AI Accelerators (HIEPAA) - a \$436,708 grant exploring the use of light to perform neural network computations, enabling the development of energy-efficient AI hardware. The project integrates thin-film lithium niobate (TFLN) with silicon photonic chip platforms to build faster, lower-loss optical modulators. Additionally, by training students in photonic and advanced electronic chip design, this project will help build a pipeline of students to pursue engineering degrees focusing on semiconductors and AI. **PI:** Ajay Joshi

Online Optimization of Networked Systems Under Uncertain User Decisions and Responses - a \$388,847 grant focused on critical infrastructures such as power systems, transportation networks, and emerging computing platforms. In response to changing dynamics and volatility, this project seeks to develop and validate mathematical and algorithmic innovations for modeling and optimizing complex, networked infrastructures operating in environments with uncertainty. The project integrates classical feedback control and incentive design with modern online optimization and stochastic modeling that accounts for decision-dependent uncertainty. **PI:** Emiliano Dall'Anese



NSF CAREER Award

The prestigious Faculty Early Career Development Program (CAREER) award from the National Science Foundation (NSF) supports early-career faculty with five years of research funding.



CAREER: Advancing AI for Accessibility With User Feedback - a \$375,587 grant addressing a critical gap in AI by embedding comprehensive knowledge of accessibility, including user preferences, into interactive, goal-oriented AI agents. The project aims to create the first publicly available, large-scale multimodal dataset with labeled preferences from low-vision users. The project also aims to create pre-trained and fine-tuned multimodal large language models (MLLMs), known as AccessAgent, which will result in a feedback-based framework for instilling usability knowledge into MLLMs, facilitating diverse downstream HCI and usability tasks for various users and contexts. The outcome will be an open-source project for the community to use. **PI:** Eshed Ohn-Bar.

SEMINARS, WORKSHOPS, AND OTHER PROGRAMS

CISE's workshops, seminars, and events give academics, students, and professionals from diverse disciplines opportunities to connect, collaborate, and build networks, while also supporting graduate students' career development

SEMINARS

CISE Seminars give renowned faculty and leaders in Information Systems a platform to share their research and advancements in their fields. These seminars draw strong attendance from BU faculty and students, industry professionals, Boston-area academics, and local government officials. CISE hosted 23 seminars over the 2025-2026 academic year.



The poster is for a CISE/Hariri Institute Distinguished Seminar. It features a portrait of Francesco Bullo, a man with grey hair and glasses, wearing a dark jacket over a blue shirt. The text on the poster includes the title 'Contraction Theory for Optimization, Control, and Neural Networks', the speaker's name 'Francesco Bullo', his title 'Distinguished Professor' and affiliation 'University of California, Santa Barbara', the date and time 'Tuesday, April 14th 1PM-2PM', and the location '665 Commonwealth Ave., CDS 1101'. The Boston University logo is in the top right corner, and the CISE and Hariri Institute names are in the bottom left corner.

CISE/Hariri Institute Distinguished Seminar

Contraction Theory for Optimization, Control, and Neural Networks

Francesco Bullo
Distinguished Professor
University of California, Santa Barbara

Tuesday, April 14th
1PM-2PM
665 Commonwealth Ave., CDS 1101

Boston University Center for Information & Systems Engineering
and Rafik B. Hariri Institute for Computing and Computational Science & Engineering

Distinguished and Joint Seminars bring research and thought leaders from academia, industry, non-profits, and government to BU for interdisciplinary talks in engineering, computing, and computational science. These seminars are coordinated with partners including the Hariri Institute, Department of Biomedical Engineering, Division of Systems Engineering, and Center for Systems Neuroscience. The Center's most recent Distinguished Seminar, "Contraction Theory for Optimization, Control, and Neural Networks," featured Francesco Bullo, Distinguished Professor of Mechanical Engineering at the University of California, Santa Barbara. It was held jointly with the Hariri Institute on April 14, 2026.

FACULTY-ORIENTED EVENTS AND PROGRAMS

The **CISE Fall Workshop** is an annual event highlighting a specific area of faculty research and collaboration. The 3rd workshop, "A Roadmap for Intelligence and Resilience in Power Grids", held in November 2025, convened leaders from academia, industry, national labs, and government to identify concrete strategies for modernizing power grids to meet current and future demands.

Guests identified technological gaps and potential solutions for low-inertia systems, reliability amid emerging loads, resilience to severe weather, efficiency, and resource adequacy. Discussions also examined new energy and service markets suited to the unpredictable nature of renewable resources, empowering active participation from energy users and producers to strengthen system resilience.



Since 2014, the **Resident Scholar Program** has given CISE faculty the opportunity to invite eminent scholars from universities around the world to share their research with the BU community. Resident scholars have come from prominent institutions including École Polytechnique de Louvain, Imperial College London, Technion Israel Institute of Technology, Shanghai Jiao Tong University, the Indian Institute of Technology Bombay, Bar-Ilan University, the University of Cyprus, Texas A&M, University of California, San Diego, and University of Michigan. Many resident scholars have gone on to participate in CISE Seminars, engaging with the BU community through research presentations and networking.

International collaboration is central to CISE's global partnerships. The Center routinely hosts events and speakers from renowned international institutions, facilitating cross-institutional collaboration and dialogue. Recently, the Center welcomed the NECST Lab, from Politecnico di Milano's Department of Electronics Information and Bioengineering, in both 2023 and 2025.

The **CISE Affiliates & Hariri Institute Focused Research Programs** provide seed funding for faculty-driven, multi-disciplinary teams, advancing research in computing and AI that leads to future funding and broad impact. CISE Affiliates, **Venkatesh Saligrama** and **Mark Howe**, organized the presentation "Multi-Scale Neuro-AI for Striatal Learning: Machine Learning, Voltage Imaging, and Safe Perturbation Design", which uses machine learning, voltage imaging, and computational neuroscience to study how the striatum learns from dopamine and acetylcholine signals, aiming to understand brain function and design safe neural interventions.



The **CISE Affiliates & Research on Tap** series brings together BU faculty to deliver lightning talks on critical topics. "Research on Tap: Climate Change and Clean Energy" drew faculty from multiple disciplines to explore fossil fuel dependence from diverse angles. CISE faculty affiliates **Ayşe Coşkun** ("Data Center Demand Response and How It Can Help with Clean Energy Transition") and **Emiliano Dall'Anese** ("Advancing Optimization and Control of Substantial Power and Energy Infrastructures") were featured speakers.

STUDENT-ORIENTED EVENTS AND PROGRAMS

Throughout FY25-26, CISE organized student-focused networking events and programs to build a tight-knit research community and prepare students for success after graduation.

CISE Industry Roundtables bring together graduate students and local alumni for informal discussions and Q&A, giving students direct insight into post-graduation career paths. Previous speakers have come from Amazon, MIT Lincoln Lab, Philips, and robotics startup Jibo, Inc. This year's Industry Roundtable featured four CISE alumni speakers: **Charles Saunders**, PhD (ENG), MathWorks (advisor: Vivek Goyal); **Qijun Liu**, PhD (ENG), Philips (advisor Rabia Tugce Yazicigil); **Samuel C. Pinto**, PhD (ENG), Magna Electronics, (advisor: Sean Anderson); **Zach Serlin**, PhD (ENG), HavocAI, (advisors: Calin Belta and Roberto Tron).

The **CISE Graduate Student Workshop (CGSW)** is an annual day-long symposium where doctoral students from the College of Engineering, College of Arts and Sciences, and Questrom School of Business present original research to faculty, peers, and industry guests. This year's plenary speakers were **Rania Khalaf**, Chief AI Officer, WSO2 ("From Hubris to Hope When It's Agents All the Way Down"), and **Rahul Chandan**, Research Scientist, Mobile Robotics Team at Amazon Robotics ("Multi-Agent Coordination in Extremely Dense Environments").



A panel of CISE alumni and BU faculty gave students the chance to connect with both academic and industry: **Burak Aksar**, Co-founder/CTO, Spiky.AI; Mela Coffey, Senior Member of Technical Staff, Draper; **Ajay Joshi**, BU Professor (ECE) & Co-founder/CEO, CipherSonic Labs Inc; **Alyssa Pierson**, BU Assistant Professor (ME) & Chief Scientist, Ava Robotics; and **Jimmy Queeney**, Research Scientist, Amazon Robotics.



Best Presenter Award Winners:

1st Place: FNU Syed Mohammad Qasim (Advisor: Ayşe Coşkun), "LLM Limitations in Cloud Latency Diagnosis"

2nd Place: Nicholas Sacco (Advisor: Bobak Nazer), "The Power Method with Row Erasures"

3rd Place: Akua Kodie Dickson (Advisor: Andrew Sabelhaus), "Safe Autonomous Environmental Contact for Soft Robotics using Control Barrier Functions"

CISE students also compete for the **Graduate Student Best Paper Competition**, submitting original, first-author accepted publications. Papers are evaluated first by a student review committee, then by a faculty committee. This year, 16 papers were submitted.

1st Place: Olawale Akanji (Advisors: Manuel Egele and Gianluca Stringhini), *"The Cost of Convenience: Identifying, Analyzing, and Mitigating Predatory Loan Applications on Android"*

2nd Place: Patrick Lutz (Advisors: Aditya Gangrade and Venkatesh Saligrama), *"Linear Transformers Implicitly Discover Unified Numerical Algorithms"*



The **PhD Student Scholar Award** gives 3 to 4 matriculating PhD students a one-time endowment, on top of their fellowship stipends, for research-related expenses. Students are nominated by CISE-affiliated faculty based on merit and potential for cross-disciplinary research. The 2025-2026 Awardees were **Ilker Isik** (Advisor: Wenchao Li), **Lizzy (Qian) Yue** (Advisor: Ayşe Coşkun), and **Jiatong Guo** (Advisor: Eshed Ohn-Bar).

Now in its fifth year, the College of Engineering's **Convergent PhD Fellowship** supports PhD applicants whose research aligns with one of the College's convergent themes. For each theme, a faculty committee selects 2-3 top nominees, who receive a stipend.



The Hariri Institute **Graduate Student Fellowship Program** recognizes outstanding PhD students pursuing computing and data-driven research at Boston University. First and/or second year students are eligible for nomination, with the honor awarded at the start of their second or third year. Fellows receive \$5,000, along with collaboration opportunities across Hariri Institute's network of academic, government, and industry partners.



Among the awardees are CISE PhD students who have demonstrated exceptional promise. **Fatih Acun** (Advisor: Ayşe Coşkun) was awarded an ongoing fellowship in 2024 for his research on intelligent methods for sustainable and energy-efficient high-performance computing. In 2025, two additional CISE students earned fellowships: **Zijian Guo** (Advisor: Wenchao Li), whose work integrates symbolic reasoning and formal specifications into data-driven prediction and decision pipelines; and **Ilker Isik** (Advisor: Wenchao Li), whose research centers on neuro-symbolic AI systems that combine machine learning and symbolic reasoning to create robust, data-efficient, and interpretable models.



CISE, with the Division of Systems Engineering, co-sponsors students to attend the annual **Grace Hopper Celebration of Women in Computing** - an opportunity for CISE students to network, increase their visibility, and engage with prominent professionals across science, research, and technology.

CISE provides mentorship and funding for student-organized **Hackathons**. The Hackathon themes vary each year, covering topics such as exploring hardware and software engineering principles, and helping bridge the gap between these two disciplines. Students work with CISE to organize a seamless event, with the Center supporting their vision.

The Center also co-hosts **Community Events**, such as cultural celebrations, holiday events, and fitness challenges, to foster a sense of belonging for CISE faculty and students, while deepening the Center's connection with the wider BU ecosystem. The events create networking opportunities where faculty can discuss ongoing research and identify areas of synergy, and are often co-hosted with partners including the Hariri Institute, Division of Systems Engineering (SE), and Division of Materials Systems Engineering (MSE).



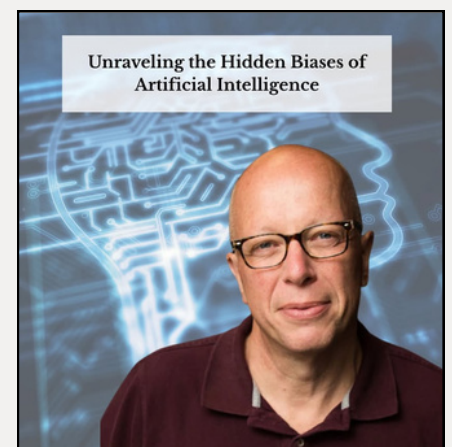
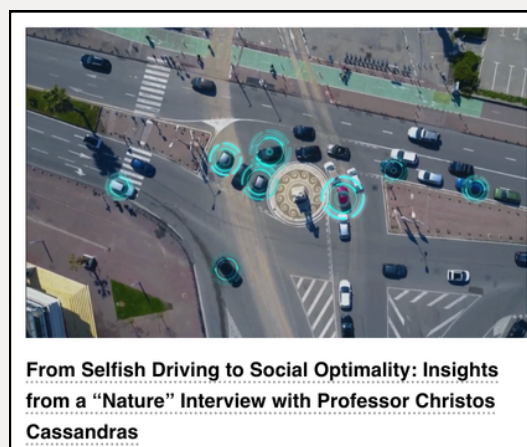
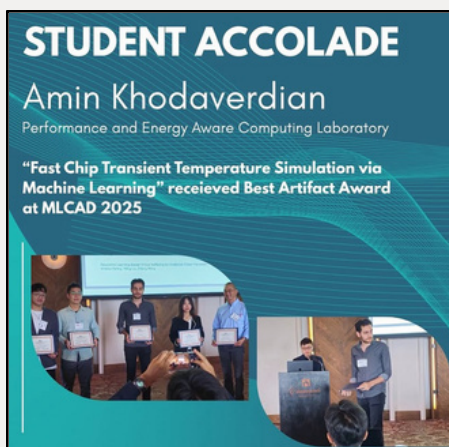
MARKETING, COMMUNICATIONS, AND ENGAGEMENT

CISE keeps its community connected to the people, research, and opportunities that matter most, so stakeholders never miss a chance to collaborate, fund, or get involved.

The **CISE Monthly Newsletter**, a go-to resource for the community, highlights new grant opportunities, upcoming events, and faculty news. The Center's social channels and website give faculty, students, and partners a real-time window into CISE by sharing new research, event recaps, and insights into the work shaping intelligent systems.

The marketing team **spotlights faculty and student research** across diverse fields, from industrial fermentation to digital lending privacy. These spotlights give researchers greater visibility, make technical work accessible to general audiences, and offer readers a glimpse into the innovation happening at CISE. The team also builds media lists and pitches to promote the Center's research and news to outlets beyond the BU community.

CISE regularly invites the community to **share accolades and achievements**, which the team amplifies across newsletters, articles, and social channels. CISE also offers opportunities for **industry partners** to plug into the Center's work, whether that means speaking at events, recruiting talent, or contributing to the Center's programs.



NEWS, ACCOLADES, AND PUBLICATIONS

NEW CISE FACULTY



Vassilis Digalakis Jr joined CISE in 2025. He is an Assistant Professor of Operations & Technology Management (OTM) at the Questrom School of Business. Vassilis works on trustworthy AI: how to design AI systems that behave reliably, transparently, and appropriately for their context of use. He combines machine learning, optimization, and operations research to study how AI deployment and governance shapes real-world outcomes in healthcare and sustainability.



Yigong Hu joined CISE in 2025. He is an Assistant Professor in the Department of Electrical and Computer Engineering (ECE). His research builds reliable, efficient large-scale computing systems, combining systems design, program analysis, and machine learning to diagnose performance issues in cloud and machine learning infrastructure.

APPOINTMENTS, ACCOLADES, AND PROMOTIONS



SEAN ANDERSSON

ASME Fellow



NALIN KULATILAKA

Wing Tat Lee Family
Professor of Management



AZER BESTAVROS

Warren Distinguished Professor
of Computer Sciences



BRIAN KULIS

Professor of Electrical &
Computer Engineering



LUIS CARVALHO

Director of MSSP
(M.S. in Statistical Practice)



IOANNIS PASCHALIDIS

Top 10% Most-Viewed Paper
on Alzheimer's and Dementia



CHRISTOS CASSANDRAS

2026 ITSS Outstanding Research
Award



TOMMASO RANZANI

Associate Professor with
Tenure

**AYŞE COŞKUN**

2025 BU Ignition Award

**ANDREW SABELHAUS**

BU Teaching Excellence in the Core Curriculum Award

**MARK CROVELLA**

Chair of Academic Affairs, Computing & Data Sciences

**DAVID STAROBINSKI**

Runner Up, Best Technical Paper, IEEE DySPAN 2026

**EMILIANO DALL'ANESE**

2025 Outstanding Associate Editor Award, IEEE Control Systems Letters

**GIANLUCA STRINGHINI**

Distinguished Paper Award, NDSS 2026

**MANUEL EGELE**

1st place, 2025 Cybersecurity Artifacts Impact Competition

**LEI TIAN**

Provost's Scholar-Teacher of the Year Award

**VIVEK GOYAL**

CISE Deputy Director, Effective July 1, 2026

**ROBERTO TRON**

Director of Robotics and Autonomous Systems

**LUCY HUTYRA**

Department Chair, Earth & Environment Director, BU Biogeosciences Program

**SANDOR VAJDA**

Top Honors, Global CASP16 Competition

**BU ROBOTICS CLUB**

First Place and Audience Choice Award, Form & Function Robotics Challenge, 2026 Robotics Summit

The team based its projects in the Robotics & Autonomous Systems Teaching and Innovation Center (RASTIC),

a “build-teach-learn” workspace that opened in March 2024 and has since become a hub for robotics innovation among students.

PUBLICATIONS

Of the 200+ faculty publications in FY25-26, a representative selection is highlighted below.



Nature Energy, “AI data centres as grid-interactive assets”

Authors: Philip Colangelo, **Ayşe Coşkun**, Jack Megrue, Ciaran Roberts, Shayan Sengupta, Varun Sivaram, Ethan Tiao, Aroon Vikaykar, Chris Williams, Daniel C. Wilson, Brandon Records, Zack MacFarland, Daniel Dreiling, Nathan Morey, Anuja Ratnayake, Baskar Vairamohan



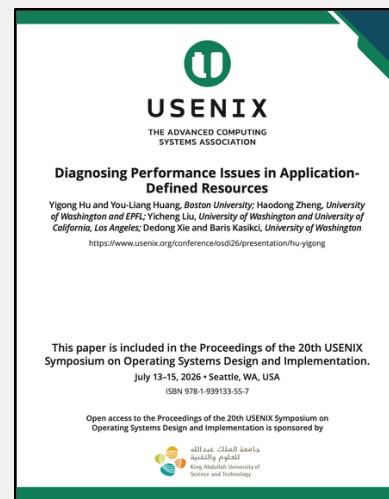
Nature Biotechnology, “Improving engineered biological systems with electronics and microfluidics”

Authors: Rabia Tugce Yazicigil, Akshaya Bali, Dilara Caygara, Douglas Densmore



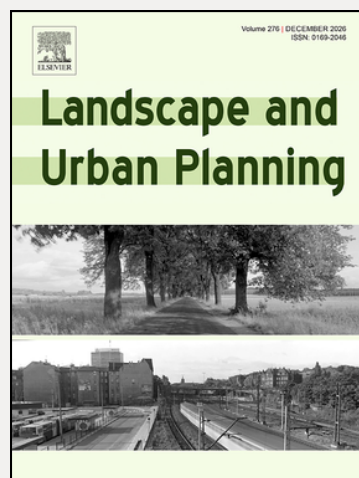
Journal of Alzheimer's Disease, “Developing an accessible dementia assessment tool: Leveraging a residual network, the trail making test, and demographic data”

Authors: Jingmei Yang, Samad Amini, Boran Hao, Seho Park, Cody Karjadi, Lance San Souci, Vijaya B Kolachalama, Stephanie Cosentino, Stacy L Andersen, Rhoda Au, **Ioannis Paschalidis**



USENIX, “Diagnosing Performance Issues in Application-Defined Resources”

Authors: **Yigong Hu**, You-Liang Huang, Haodong Zheng, Yicheng Liu, Dedeng Xie, Baris Kasikci



Landscape and Urban Planning, “Effects of urbanization on the dynamics of carbon, nitrogen, and water cycling in hardwood forests of the northeastern US”

Authors: Linghui Meng, Afshin Pourmokhtarian, Pamela H Templer, **Lucy R Hutya**, Charles T Driscoll



Advanced Robotics Research, “Enabling Real-Time Shape-Sensing in Soft Robotics via a Miniaturized, Single-Signal, Color-Tuned Soft Optical Sensor”

Authors: Frank Julia Wise, Yitong Lu, Daniel Van Lewen, Riley Applebaum, Bianca Andrada, Jonathan Reamer, **Sheila Russo**

PUBLICITY & SPEAKING ENGAGEMENTS**CHRISTOS CASSANDRAS****nature**

Data Drives City Transportation Forward

KONSTANTINOS SPILIOPOULOS

Could Artificial Intelligence
be More Powerful and Use a
Fraction of the Energy?

AYŞE COŞKUN**THE BRINK**

Is AI Slowing Climate
Progress? It's Complicated



TEDAI San Francisco

**MIT
Technology
Review**

Want to get a
data center
online quickly?
Give it some flex



TEDx Boston

BU

College of Engineering

Smart Management for AI
Power Consumption



PBS Energy Switch

EMILIANO DALL'ANESE**BU**

College of Engineering

Controlling for Uncertainty



Panel on "America's Energy Future",
BU College of Engineering Catalyst
Summit

MICHAEL GEVELBER**THE BRINK**

Squid-Inspired Lab Technology Wins
Student Team a Boston University
Climate Award

VIVEK GOYAL**BU**

College of Engineering

Professor Goyal Receives Funding for
Long-Distance 3D Imaging and
Atmospheric Sensing

LUCY HUTYRA

Panel on Urban Cooling, Boston
Globe Media Sustainability Summit

WENCHAO LI

Presented two papers on multi-agent reinforcement learning with control barrier functions and temporal logic requirements

AJAY JOSHI

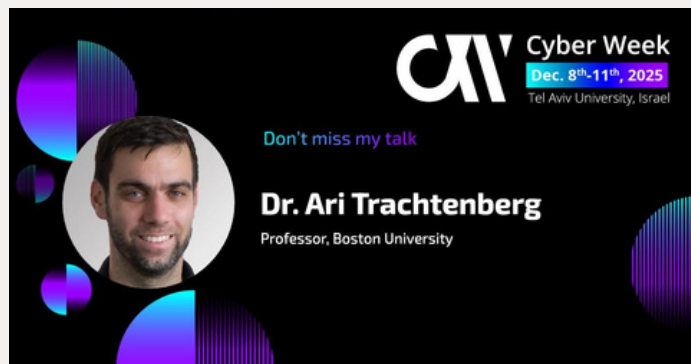
Video interview on fully
homomorphic encryption as a
future AI security standard



New England Venture Summit,
on CipherSonic Labs' encrypted-inference approach to safer GenAI for healthcare, finance, and defense

ABRAHAM MATTA

NSF CISE Research Expansion
(RE) Aspiring PI Workshop

ARI TRACHTENBERG

CyberWeek Tel Aviv's Research and Innovation in
Cybersecurity Track, on AI-enhanced side-channel attacks

IOANNIS PASCHALIDIS



Human-AI Collaboration for Early Outbreak Detection



Panelist, European Scientific Conference on Applied Infectious Disease Epidemiology (ESCAIDE 2025)

TOMMASO RANZANI



How a Low-Cost Soft Robot Is Learning to Perform Surgery Inside a Beating Heart

VENKATESH SALIGRAMA

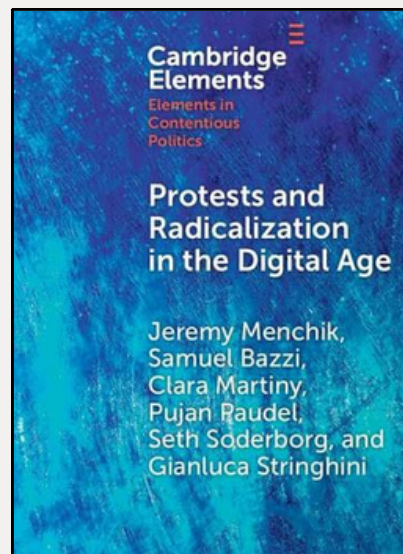


Presented "Linear Transformers Implicitly Discover Unified Numerical Algorithms" at NeurIPS 2025, on in-context learning as a driver of automated algorithmic discovery

GIANLUCA STRINGHINI

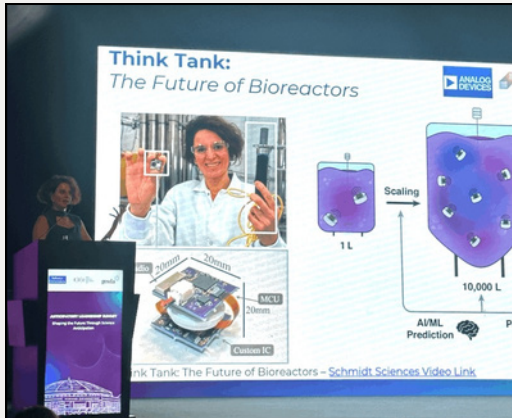


Stringhini's Open-Source Tool Helps Peer Reviewers Catch Hallucinated Citations



From Protest to Polarization: A Collaborative Study of the Reopen Movement

RABIA TUGCE YAZICIGIL



GESDA - Geneva Science
and Diplomacy Anticipator



Distinguished Lecture,
IEEE Solid-State Circuits Society



Schmidt Sciences Video



Keynote Speaker, IEEE Women in CAS Forum,
BioCAS25

CISE Affiliated Faculty & Team CISE

CISE AFFILIATED FACULTY

College of Engineering

Sean Andersson, Professor (ME, SE), ME Department Chair, Director of BU Robotics Lab

John Baillieul, Distinguished Professor (ME, ECE, SE)

Calin Belta, Research Professor (ME, ECE, SE)

Michael Caramanis, Professor (ME, SE)

Christos Cassandras, Distinguished Professor (ECE, SE), Head of the Division of Systems Engineering

David Castañón, Professor (ECE, SE)

Ayşe Coşkun, Professor (ECE, SE), Director of CISE, Head of PEAC Lab, Associate Dean for Research and Faculty Development (ENG)

Ashok Cutkosky, Assistant Professor (ECE, SE, CDS)

Emiliano Dall'Anese, Associate Professor (ECE, SE), Interim Head of the Division of Systems Engineering (as of FY27), Associate Division Head of the Division of Systems Engineering

Manuel Egele, Associate Professor (ECE), Associate Chair of Doctoral Programs (ECE)

Michael Gevelber, Research Associate Professor (MSE, ME, SE)

Vivek Goyal, Professor (ECE), CISE Deputy Director

Yigong Hu, Assistant Professor (ECE)

Prakash Ishwar, Professor (ECE, SE, CS)

Ajay Joshi, Professor (ECE)

W. Clement Karl, Professor (ECE, BME, SE), Department Chair of Electrical and Computer Engineering

Janusz Konrad, Professor (ECE)

Brian Kulis, Professor (ECE, CS, SE), Faculty (CDS)

Lev Levitin, Distinguished Professor of Engineering Science (ECE)

Wenchao Li, Associate Professor (ECE, SE, CS)

Thomas Little, Professor (ECE, SE)

Bobak Nazer, Distinguished Faculty Fellow, Associate Professor (ECE, SE), ECE Associate Chair for Undergraduate Programs

Eshed Ohn-Bar, Assistant Professor (ECE)

Alexander Olshevsky, Professor (ECE, SE)

Ioannis (Yannis) Paschalidis, Director of Rafik B. Hariri Institute for Computing and Computation Science & Engineering, Distinguished Professor of Engineering (ECE, SE, BME), Founding Member and Faculty (CDS)

James Perkins, Associate Professor (ME, SE)

Alyssa Pierson, Assistant Professor (ME, SE)

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Lei Tian, Associate Professor (ECE, BME)

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Sandor Vajda, Professor (BME, SE, CHEM)

Pirooz Vakili, Associate Professor (SE, ME)

Hua Wang, Associate Professor (ME, SE Appointed)

Tianyu Wang, Assistant Professor (ECE)

Rabia Tugce Yazicigil, Associate Professor (ECE, BME)

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Mark Kon, Professor (Math/Stat)

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Sabrina Neuman, Assistant Professor (CS)

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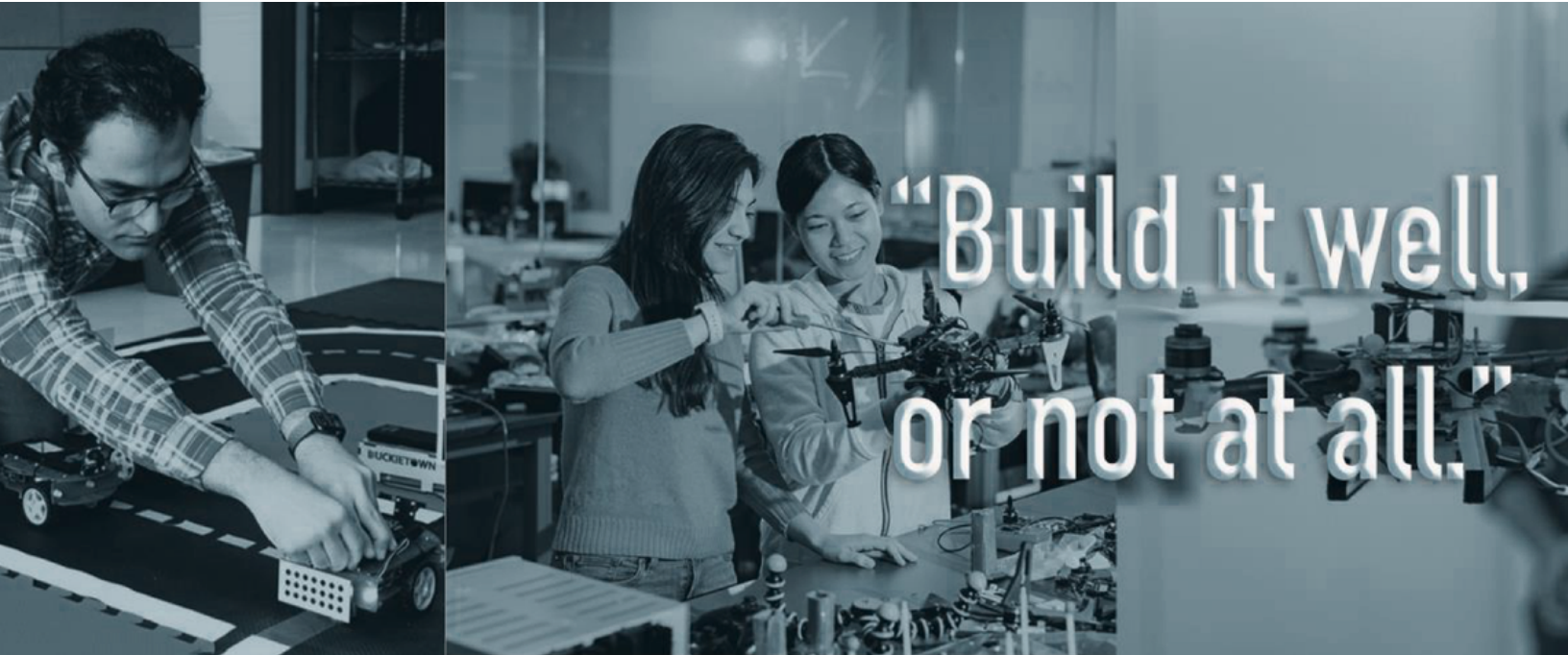
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