MIT MANAGEMENT SLOAN SCHOOL

Cybersecurity at MIT Sloan

Newsletter

Did you know…

Our CAMS team, in partnership with MIT Sloan Exec Ed, has launched a 2-day cybersecurity management program for your business partners and non-technical executives

Take this Course in Person or over an online system. For more information, Visit https://cams.mit.edu/events
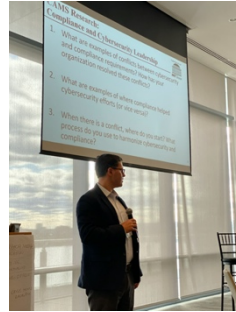
Cybersecurity and Compliance: CAMS Fall Workshop

This October, CAMS 2019 Annual Fall Workshop centered around harmonizing cybersecurity and compliance. This one-day event, held at MIT Sloan's Samberg Center, included research updates, a workshop that invited members to contribute and discuss their experiences with compliance in their industries, and a keynote on third party consumer profiling lead by Professor Catherine Tucker. Beyond networking with other professionals from across the industry and exploring relevant research, this conference covered the ins and outs of compliance and how it meshes with cybersecurity throughout various industries.

Photos: [Top left] A participant gives a report of his small group's workshop results. [Top right] Participants enjoy lunch on the Samberg Patio. [Bottom right] Professor Tucker presented the keynote.

UMass Lowell Seminar Featured CAMS Research

In October, Dr. Keri Pearlson, CAMS Executive Director, led a discussion at the University of Massachusetts Lowell on research, education, and outreach activities at a seminar series hosted by the Manning School of Business Operations and Information Systems Department in conjunction with the Research Advancement Committee. She shared an overview of several CAMS research projects, including her work on developing a cybersecurity culture within a company and the importance of changing values, attitudes and beliefs to increase cybersecurity behaviors.

Keri Pearlson pictured with OIS Chair Harry Zhu at the seminar

Austin Technology Community Invited CAMS to Share Research

Dr. Pearlson spoke to a group of local community leaders in Austin, Texas about building a cybersecurity culture. This in-person presentation highlighted how to apply CAMS concepts about culture to the "organization of the family" as well as business groups. Attendees found it interesting that focusing on changing attitudes might be useful to both their business colleagues and their family members.

CAMS Welcomed our Newest Visiting Scholar: Bo Han

Bo Han, the newest CAMS visiting scholar, joined our research group in September. Bo is a PHD candidate from Tsinghua University in the Media Economics and Management Research Center in Beijing, China. His areas of research are cyber norms in digital trade, global internet governance structure, and media digitalization. He will be at MIT until August 2020.

CAMS Researchers Present to MIT's Industrial Liaison Program

The ILP is dedicated to creating and strengthening mutually beneficial relationships between MIT and corporations worldwide. CAMS researchers Keri Pearlson, Matt Maloney, and Shaharyar Khan engaged with a team of senior executives from Ericsson and Schindler earlier this fall to share ideas from CAMS cutting-edge research. In addition to an overview of CAMS research agenda and 2020 priorities, this included short presentations on cybersecurity culture, the cybersecurity of internet-of-things as well as an overview of a holistic approach being developed to secure complex systems.

FEATURED: CAMS Research Priorities for 2020

The CAMS research team has a number of projects in process that cover significant aspects of cybersecurity leadership and management. Information about the research can be found on the CAMS website research page: https://CAMS.mit.edu/research

For 2020, the team will focus on five research priorities:

Managing Business Impact: Seeks to answer the large question of how do we manage (and minimize) financial and business impact of cyber incidents. How secure are we (and how do we measure this)? How can we measure the impact of various options available to us technologically and organizationally?

Compliance and Cybersecurity: Harmonizing requirements from regulations and rules with needs for cybersecurity. Where do we start? How do we align conflicting requirements? How does compliance aid/detract from cybersecurity?

Cybersecurity Culture: Looks at how we influence and increase positive cybersecurity employee behaviors. The goal of this research is to provide managers and leaders with a roadmap of how to build a culture to increase cybersecurity.

Cyber-Physical Systems: Takes a systems-level view of cybersecurity. This research stream is developing an approach that applies the System-Theoretic Accident Model and Processes (STAMP) to manage the complexity of systems in a structured manner to strategically focus cyber investments.

IOT and End Point Security: What is the best approach to managing cybersecurity of IoT devices, especially those running in plants and complex systems? The vulnerabilities opened up by the increasing number of endpoint devices cannot continue to add to the cybersecurity needs of the system.

Upcoming Events

Cybersecurity for Non-Technical Managers (an In Person Exec Ed program):
Apr 7-8, 2020 | Jun 11-12, 2020 | Oct 27-28, 2020
(Online Program: Feb 19-Apr 7, 2020 | Apr 22-Jun 9, 2020 | Jun 24-Aug 11, 2020**)**

In the Press

September 24, 2019: Stuart Madnick interviewed with Gazeta Do Povo (Brazil) discuss the impact of cyber attacks on businesses
"Ataques Cibernéticos Custam Mais Para es Empresas Brasileieras"
October 24, 2019: Keri Pearlson interviewed with MIT Sloan's Christopher Reichert for a podcast: "Keri Pearlson Executive Director of Cybersecurity at MIT Sloan"
October 17, 2019 : Stuart Madnick wrote an article for The Wall Street Journal: "The Ethics of AI: What Happens When Humans Can't Agree on What is 'Right'?"

Recent Papers: Avaliable to CAMS Members at Cams.mit.edu

" Casting the Dark Web in a New Light" by Keman Huang, Michael Siegel, and Keri Pearlson. Featured in the MIT Sloan Management Review July 2019 edition.
" Analysis of Cross-Border Data Trade Restrictions using Mixture-based Clustering" by Keman Huang, Samuel Chinnery, Stuart Madnick, and Keri Pearlson. Presented at AMCIS August 2019.
" Cyber Physical IoT Device Management" by Matthew Maloney, Elizabeth Reilly, Michael Siegel, and Gregory Falco. July 2019.
" The Internet of Things Promises New Benefits and Risks" by Mohammad S. Jalali, Jessica P. Kaiser, Michael Siegel, and Stuart Madnick. April 2019.

Cybersecurity at MIT Sloan (CAMS) informal research team meetings are open to members and are held most Fridays
11:30am – 1:00pm at MIT's Sloan School

If you would like to attend, please contact one of our Directors

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About Cybersecurity at MIT Sloan:
Formerly The Interdisciplinary Consortium for Improving Critical Infrastructure Cybersecurity, (IC)³

MIT is the natural place to study cybersecurity, given its rich history of technology innovation, and the MIT Sloan School is the perfect environment for the Cybersecurity at MIT Sloan (CAMS) research consortium. The Consortium is focused on the managerial, organizational, and strategic aspects of cybersecurity. More information can be found at https://cams.mit.edu or by contacting us:

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