Newsletter #17:
November - December 2017

INTERDISCIPLINARY
CONSORTIUM
for IMPROVING
CRITICAL
INFRASTRUCTURE
CYBERSECURITY
(IC)³

Newsletter

Save the date:

Cybersecurity at MIT Sloan's Spring Workshop will be held on April 4, 2018

*Our consortium is offering an **MIT IAP** non-credit course for students and the community in January. Learn more on our website:*

https://ic3.mit.edu/events

Happy New Year and Our Gifts to You

First, we want to extend our best wishes to you for a Happy and Healthy New Year 2018! Second, as you know, we recently launched our new web site. The URL is still https://ic3.mit.edu/ and it is (mostly) working!

We had been waiting for this launch to start uploading our recent working papers. If you have not visited the Members Only section recently, please do so. You will find materials from our workshops, such as the Fall workshop in October. In addition, you will find 14 new working papers such as:

- "Cybercrime-as-a-Service: Identifying Control Points to Disrupt"
- "The Internet of Things (IoT) Promises New Benefits — And Risks: A Systematic Analysis of Adoption Dynamics of IoT Products"
- "Identifying and Mitigating Cyber Attacks that could cause Physical Damage to Industrial Control Systems"
- "Cybersecurity Information Sharing Incentives and Barriers"
- "Striking a balance between usability and cyber-security in IoT devices"
- "Cyber Warfare Conflict Analysis and Case Studies"
- "Cybersafety Analysis of the Maroochy Shire Sewage Spill"
- "Preparing for the Cyberattack That Will Knock Out U.S. Power Grids"
- "Institutions for Cyber Security: International Responses and Data Sharing Initiatives"
- "Studying the Tension Between Digital Innovation and Cybersecurity"
- "Ukraine Power Grid Cyberattack and US Susceptibility: Cybersecurity Implications of Smart Grid Advancements in the US"

Professor Madnick Presents Webinar for MIT Sloan Alumni

On December 13, 2017, Professor Stuart Madnick gave a presentation with MIT Sloan Alumni Online entitled "What Every Manager Should Know About Cybersecurity". It addressed the essential elements for preparing for cyberattacks from the perspective of business leaders and managers. Nearly 200 people joined Professor Madnick's live webinar, in which he debunked common myths about cybersecurity, outlined the White House / NIST cybersecurity framework, and described what Cybersecurity at MIT Sloan is doing to address cybersecurity issues. The Q&A session addressed air-gapped networks, information sharing, and cyber secure behavior. A preview and instructions for viewing the full webinar can be found at: http://bit.ly/MITSAOnline2017 or go directly to the video at https://www.youtube.com/watch?v=vpmTN-Oxesc

Consortium Researchers Attend CREDC workshop at the PNNL

Keri Pearlson at PNIW in Washington state.

Members of Cybersecurity at MIT Sloan, including researcher Weilian Chu and Executive Director Keri Pearlson, flew to the Pacific Northwest National Labs (PNNL) in Richland, Washington to attend CREDC's Pacific Northwest Industry Workshop (PNIW) – Cyber Grid Research for Industry. The Consortium, funded by the Department of Energy, invited members from industry and academia to participate in this event to discuss unmet cybersecurity needs in the energy sector.

About Cybersecurity at MIT Sloan: (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 Interdisciplinary Consortium for Improving Critical Infrastructure Cybersecurity, (IC)³. The Consortium is focused on the managerial, organizational, and strategic aspects of cybersecurity. More information can be found at https://ic3.mit.edu or by contacting us:

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*(IC)³ research meetings, open to members, are held every **Friday 11:30am – 1:00pm** at MIT's Sloan School*

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

Kaspersky Academic Partner Summit Includes Keynote by Dr. Pearlson

Featuring a diverse agenda of panels, speakers, workshops and an interactive simulation game, Kaspersky Lab's Academic Partner Summit was held in Prague in December. The two-day program included members of academic institutions, cyber industries, and public/governments including cyber police. Dr. Keri Pearlson, Cybersecurity at MIT Sloan's Executive Director, led a workshop, joined panels, and judged student projects. She was also a keynote speaker sharing snapshots of Consortium research, including the study with colleague Dr. Keman Huang on building a cybersecurity culture.

Keri Pearlson (left) on the Future Skills and Education Approaches in Cybersecurity panel of the Kaspersky Academic Partner

Dr. Jalali Chairs Session at 2017 INFORMS Annual Meeting

INFORMS, The Institute for Operations Research and Management Science, had its Annual Meeting in Houston this past November, at which academics and professionals from around the world gathered to share research and new ideas. Cybersecurity at MIT Sloan researcher Dr. Mohammad Jalali attended this conference as a session chair and a presenter. He was the chair for the Behavioral Operations Session of the conference and presented research on both his cybersecurity capability development simulation game and screening for PTSD in the presence of social stigma.

Dr. Siegel is a panelist at the ACSC Annual Conference 2017

At the Advanced Cyber Security Center's annual conference, The Business of Cyber Security: Strategies for Success, featured an impressive list of speakers and panelists, including one of Cybersecurity at MIT Sloan's Directors, Dr. Michael Siegel. At the Federal Reserve Bank of Boston, conference attendees listened to presentations about cybersecurity strategies for long-term success, promising start-ups presented new technologies, panels addressed topics ranging from the gender gap in the industry to cyber metrics and the issue of privacy for those utilizing advanced surveillance techniques. Dr. Siegel was on the panel on Collaborative Defense with representatives from Facebook and Massachusetts Department of Homeland Security.

In the News

Época NEGOCIOS "Why worry about the recent leak of 1.4 billion passwords in the "dark web" – Business Season | Tecneira" included quotes from Stuart Madnick.
See full article here: http://bit.ly/Época_NEGOCIOS_Dec2017

Computer Business Review "Nearly 80% of young women would NEVER consider career in IT" included comments from Stuart Madnick:

Many individuals have the mistaken belief that cyber security is strictly a technical job requiring strong coding skills. Although that is true for some jobs, having 'soft skills' can be as, and sometimes even more important, as technical skills in making a difference in the organization.

See full article here: http://bit.ly/CBR_Nov2017

Forbes "30 Under 30 in Enterprise Technology" list included Cybersecurity at MIT Sloan researcher Greg Falco. See Greg's profile here: http://bit.ly/Forbes_Falco

Greg Falco

Healthcare IT News "Equifax hack: What cybersecurity pros are saying about the breach" mentioned Stuart Madnick's appearance at the Healthcare Security Forum in September. See full article here: http://bit.ly/HIMSS_Madnick2017

Wall Street Journal "Banks Build Line of Defense for Doomsday Cyberattack" quoted Stuart Madnick about cybersecurity in banking. See full article here: http://bit.ly/MadnickWSJ2017