SEI Bulletin

Office of the Director of National Intelligence Sponsors SEI to Lead National AI Engineering Initiative

October 14, 2020 — The Software Engineering Institute (SEI), with funding and guidance from the Office of the Director of National Intelligence (ODNI), will lead a national initiative to advance the discipline of artificial intelligence (AI) engineering for defense and national security. As the Department of Defense (DoD) and Intelligence Community increasingly invest in AI, they have prioritized safe, ethical, and secure solutions. Current AI solutions, which are often speedily deployed and difficult to replicate, verify, and validate, could lead to a landscape far from the DoD's vision. With the sponsorship of ODNI, the SEI will establish and lead an AI Engineering Initiative that will guide the development of a multi-year research and development roadmap and develop capabilities based on partners' core competencies.

Read more »

SEI News

CERT Division Research Supports National Cybersecurity Awareness Month
Technical work and events from the SEI's CERT Division aim to raise awareness about the cybersecurity landscape and the latest ways to stay safe online.

Graph Algorithms in the Language of Linear Algebra Approaches C++ Standardization
The recent GraphBLAS Template Library (GBTL) release marks a milestone in the development of a C++ specification for graph analytics.

CMU Software Engineering Institute Adds Aztlán CEO Russell Crockett to Board of Visitors
The Board of Visitors advises the CMU president, vice president for research, and the SEI director on SEI plans and operations.

See more news »

Latest Blogs

Three Places to Start in Defending Against Ransomware
Three initial efforts will make ransomware more difficult for attackers and less costly to organizations.

Ransomware as a Service (RaaS) Threats
Ransomware remains a top tool for cybercrime, and current active ransomware variants utilize ransomware as a service (RaaS).

Insider Threat Incidents: Assets Targeted by Malicious Insiders
A new taxonomy illuminates the assets targeted in insider incidents.

See more blogs »

Latest Podcasts

[Reviewing and Measuring Activities for Effectiveness in CMMC Level 4](#)
Andrew Hoover and Katie Stewart, CMMC model architects, discuss reviewing and communicating CMMC activities and measuring those activities for effectiveness, Level 4 requirements of the model.

[Situational Awareness for Cybersecurity: Beyond the Network](#)
Angela Horneman and Timothy Morrow discuss the importance of looking beyond the network to gain situational awareness for cybersecurity.

[Quantum Computing: The Quantum Advantage](#)
Dr. Jason Larkin discusses the challenges of working in the NISQ era and the work that the SEI is doing in quantum computing.

[See more podcasts »](#)

Latest Publications

[DevSecOps Days DC 2020](#)
Presentations from DevSecOps Days DC 2020, held virtually on October 1.

[Static Analysis Classification Research FY16-20 for Software Assurance Community of Practice](#)
Lori Flynn discusses her research from the past four years.

[Using AI to Find Security Defects in Code / Build More Secure Software](#)
This presentation discusses how to use AI to find defects in code.

[See more publications »](#)

Latest Videos

Webcast - [Threats for Machine Learning](#)
Mark Sherman explains where machine learning applications can be attacked, the means for carrying out the attack, and some mitigations you can use.

Webcast - [Cyber Workforce Development and the Cybersecurity Engineer](#)
Dennis Allen talks about how the SEI's Cyber Workforce Development team

aims to streamline the building of cybersecurity expertise and amplify it to a globally distributed workforce.

Webcast - [Follow the CUI: Setting the Boundaries for Your CMMC Assessment](#)
CMMC architects review several steps for identifying CUI exposure in terms of their critical services and the assets that support them.

📅 Upcoming Events

[FloCon 2021, January 11-14, 2021](#)
The theme of Using Data to Defend is more critical than ever, given the security challenges of moving customers and vendors online and supporting a remote workforce.

[Artificial Intelligence for Humanitarian Assistance and Disaster Response Workshop, December 11](#)
This workshop establishes dialogue between the AI and Humanitarian Assistance and Disaster Response (HADR) communities.

> **Note:** The SEI is evaluating all upcoming courses, conferences, and events case-by-case in light of COVID-19 developments. Check individual event pages for the latest information.

See more events »

🏅 Upcoming Training

[Software Architecture Design and Analysis](#)
December 7-10, 2020 (SEI, Live Online)

[Insider Threat Vulnerability Assessor Training](#)
December 8-10, 2020 (SEI, Live Online)

[Insider Threat Analyst](#)

December 15-17, 2020 (SEI, Live Online)

> **Note:** The SEI is evaluating all upcoming courses, conferences, and events case-by-case in light of COVID-19 developments. Check individual training pages for the latest information. You may also contact us at courseregistration@sei.cmu.edu or +1-412-268-7388.

[See more courses »](#)

 Employment Opportunities

[Data Scientist](#)

[Technical Manager, Malware Analysis](#)

[All current opportunities »](#)