SEI Bulletin

SEI Releases Software Engineering Measurement and Analysis Course Materials

October 28, 2020 — The Software Engineering Institute (SEI) recently released the materials from its Software Engineering Measurement and Analysis (SEMA) courses under a Creative Commons Attribution 4.0 International License. Anyone can download the course materials for free from the SEI website. The SEMA courses teach software-intensive organizations the techniques to measure and analyze their own performance and processes. With these tools, organizations can control projects, improve processes, evaluate new technologies, and track organizational performance.

Read more »

SEI News

[Office of the Director of National Intelligence Sponsors SEI to Lead National AI Engineering Initiative](#)

The SEI, with funding and guidance from the ODNI, will lead a national initiative to advance the discipline of AI engineering for defense and national security.

[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.

[See more news »](#)

Latest Blogs

[How to Protect Your High Value Assets](#)

The federal High Value Asset Program has lessons for protecting all mission-critical information and technology.

[Adversarial ML Threat Matrix: Adversarial Tactics, Techniques, and Common Knowledge of Machine Learning](#)

Microsoft and MITRE are releasing their Adversarial Machine Learning Threat Matrix.

[Network Segmentation: Concepts and Practices](#)

This post gives steps for segmenting an organization's network as an extra layer of protection.

[See more blogs »](#)

Latest Podcasts

[Optimizing Process Maturity in CMMC Level 5](#)

Andrew Hoover and Katie Stewart, CMMC model architects, discuss the Level 5 process maturity requirements: standardizing and optimizing a documented approach for CMMC.

[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.

[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

[What Is Cybersecurity Engineering and Why Do I Need It? November 17](#)
Cybersecurity engineering consolidates the tools and analyses used in various lifecycle steps to ensure effective operational results.

[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.

[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.

> **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, including live-online and eLearning offerings »](#)

Employment Opportunities

[Data Scientist](#)

[UX Designer](#)

[Associate Software Engineer](#)

[All current opportunities »](#)

Carnegie Mellon University
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