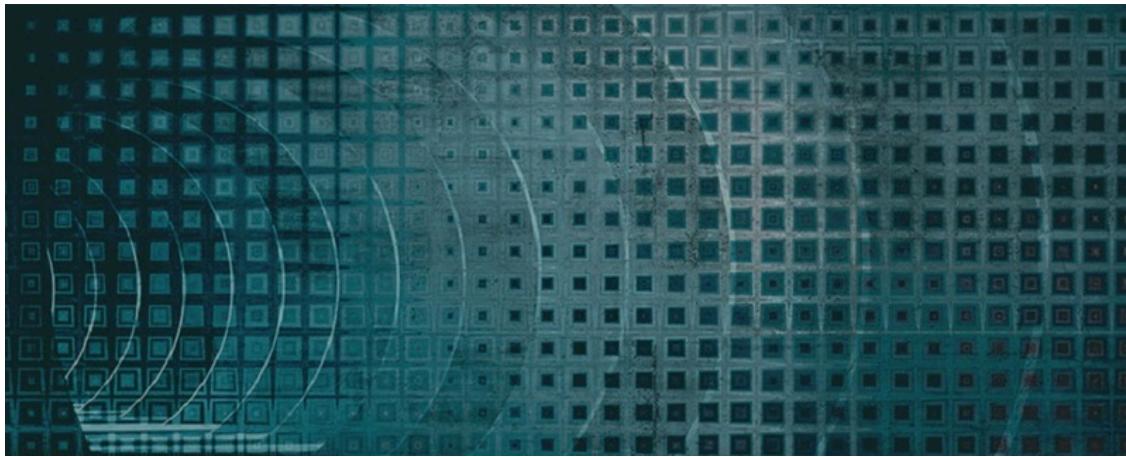


SEI Bulletin

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Secure Software by Design 2024 Presentations Available

November 20, 2024—The presentations and videos from the Secure Software by Design 2024 conference are now available. SEI security researchers and industry software practitioners gathered in Pittsburgh in August to share ways to address, prevent, or eliminate security weaknesses earlier in the software development cycle. The presentations are available for download from the SEI Digital Library, and the presentation videos are on the SEI's YouTube channel.

This year's presentations delved into a range of secure-by-design topics:

- the Cybersecurity and Infrastructure Security Agency's Secure by Design initiative
- application programming interface (API) security
- quantum computing and security
- security and infrastructure as code
- open source and supply chain risk management
- automated repair of static analysis alerts
- improving software assurance using artificial intelligence (AI)
- writing secure and fault tolerant applications

- DevSecOps, genetic algorithms, AI, and machine learning

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SEI News

[Workshop Explores Challenges and Progress on Certification of Real-Time Cyber-Physical Systems](#)

A recently released report details the second meeting of the Assurance Evidence for Continuously Evolving Real-Time Systems (ASERT) workshop.

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Latest Blogs

[GenAI for Code Review of C++ and Java](#)

Would ChatGPT-3.5 and ChatGPT-4o correctly identify errors in noncompliant code and correctly recognize compliant code as error-free?

[An Introduction to Hardening Docker Images](#)

Through our work, we have seen stakeholders encountering difficulty with hardening open source container images for vulnerability mitigation.

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Scoping down objectives and determining what kinds of data to gather are persistent challenges in cybersecurity. Bill Nichols explores cyber metrics in our latest podcast.

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To make secure software by design a reality, engineers must intentionally build security throughout the software development lifecycle. Timothy A. Chick discusses building, designing, and operating secure systems.

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Latest Videos

Cyber Challenges in Health Care: Managing for Operational Resilience

Matthew Butkovic and Darrell Keeling explore approaches to maximize return on cybersecurity investment in the health-care context.

Independent Verification and Validation for Agile Projects

Justin Smith highlights a novel approach to providing independent verification and validation (IV&V) for projects that are using an Agile or iterative software development.

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Latest Publications

Dangers of AI for Insider Risk Evaluation (DARE)

Austin Whisnant describes the challenges of using artificial intelligence for insider risk analysis and how to thoughtfully and efficiently use AI to find insider threats.

Assurance Evidence of Continuously Evolving Real-Time Systems (ASERT) Workshop 2024

This report summarizes the analysis of the Taiwanese flight CI202 incident as well as ideas for future work for ASERT presented at its 2024 workshop.

Secure Software by Design 2024 Presentations

SEI security researchers and industry software practitioners share ways to address, prevent, or eliminate security weaknesses earlier in the software development cycle.

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Upcoming Events

[FloCon 2025](#), March 4, 2025

FloCon is the SEI's annual conference on data-driven security.

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Upcoming Training

[Cybersecurity Oversight for the Business Executive](#)

January 15-16, 2025 (SEI Live Online)

[Software Architecture Design and Analysis](#)

February 11-14, 2025 (SEI Live Online)

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