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Measurement Challenges in Software Assurance and Supply Chain Risk Management

May 22, 2024—In the rush to field new software, suppliers often neglect to analyze their product's vulnerabilities, a task made harder by knotty software supply chains. “Design decisions tend to lock in weaknesses because there is no means to characterize and measure acceptable risk,” write Nancy Mead, Carol Woody, and Scott Hissam in a new SEI Blog post.

Yet open source software offers a way forward. The blog post [Measurement Challenges in Software Assurance and Supply Chain Risk Management](#) examines the current state of the practice, particularly for open source software, and highlights some promising measurement approaches.

[Read the blog post »](#)



[New SEI Tool Brings Visibility to DevSecOps Pipelines](#)

The Polar tool gives a comprehensive visualization of the complete DevSecOps pipeline.

[Nominations for Humphrey Software Quality Award Open Through September 1](#)

The award recognizes improvement in an organization's ability to create and evolve high-quality software-dependent systems.

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[Measurement Challenges in Software Assurance and Supply Chain Risk Management](#)

Nancy Mead, Carol Woody, and Scott Hissam examine the current state of measurement in software assurance and supply chain management, with a particular focus on open source software, and highlight promising measurement approaches.

[Cost-Effective AI Infrastructure: 5 Lessons Learned](#)

William Nichols and Bryan Brown detail the challenges and state of the art of cost-effective AI infrastructure and five lessons learned for standing up an LLM.

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[My Story in Computing with Sam Procter](#)

Sam Procter discusses influences that shaped his career, the importance of embracing diversity in his research and work, and the value of a work-life balance.

[Developing and Using a Software Bill of Materials Framework](#)

Michael Bandor and Carol Woody discuss a Software Bill of Materials (SBOM) Framework to promote the use of SBOMs and establish a more comprehensive set of practices and processes.

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Latest Videos

[Using a Scenario to Reason About Implementing a Zero Trust Strategy](#)

Tim Morrow, Rhonda Brown, and Elias Miller discuss an approach organizations can use to help develop the contextual awareness needed to apply a zero trust strategy.



Latest Publications

[Explainable Verification: Survey, Situations, and New Ideas](#)

This report focuses on potential changes in software development practice and research that would help tools used for formal methods explain their output, making software practitioners more likely to trust them.

[2023 SEI Year in Review](#)

The 2023 SEI Year in Review highlights the work of the institute undertaken during the fiscal year spanning October 1, 2022, to September 30, 2023.

[See more publications »](#)



Upcoming Events

Webcast - [Can You Rely on Your AI? Applying the AIR Tool to Improve Classifier Performance](#), May 30

SEI researchers will discuss a new AI Robustness (AIR) tool that allows users to gauge AI and ML classifier performance with confidence.

[DevSecOps Days Pittsburgh 2024](#), July 9

Learn from fellow DevSecOps practitioners, discover how to integrate security into your teams, and gain insight on automating security in the developer and production pipeline.

[Secure Software by Design](#), August 6-7

Collaborate on improving software security with two on-site days of panel discussions and presentations plus two optional on-site days of training.

[International Conference on Conceptual Modeling \(ER 2024\)](#), October 28-31

The SEI will host the main international forum for discussing the state of the art, emerging issues, and future challenges in research and practice on conceptual modeling.

[**See more events »**](#)



Upcoming Appearances

[Emerging Technologies for Defense Conference & Exhibition 2024](#), August 7-9

Visit the SEI at booth 316.

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Upcoming Training

[Advanced Topics in Incident Handling](#)

September 24-27 (SEI Live Online)

[Developing a National or Government CSIRT](#)

October 8-9 (SEI Live Online)

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