

SEI Bulletin

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2022 Year in Review Showcases Work in Machine Learning, Software Assurance, DevSecOps, and More

April 26, 2023—The SEI recently published the *2022 SEI Year in Review*, a report spotlighting some of the SEI's notable projects from the 2022 fiscal year. This year's edition shows how SEI experts advanced the state of the art in AI engineering, cybersecurity engineering, and software architecture practices, among other areas.

"For our nation's defense and national security organizations, disruptive technology events and circumstances abound, such as technology advancements and new regulatory mandates," wrote SEI Director and CEO Paul Nielsen in the *Year in Review*. "The mission of the Carnegie Mellon University Software Engineering Institute is to spur transformational impact for our sponsor, the Department of Defense, in the midst of those disruptions."

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[2022 Year in Review Showcases Accomplishments in Machine Learning, Software Assurance, DevSecOps, and More](#)

The Year in Review captures some of the SEI's most significant work performed in fiscal year 2022.

[DevSecOps Days 2023 Opens Registration, Call for Speakers](#)

The conference on integrating security into DevOps practices will be held virtually May 11.

[**See more news »**](#)



[8 Areas of Future Research in Zero Trust](#)

Matthew Nicolai, Trista Polaski, and Timothy Morrow highlight potential research areas in zero trust architecture (ZTA) that could help organizations develop solutions for a ZTA transformation.

[Designing Great Challenges for Cybersecurity Competitions](#)

Jarrett Booz, Josh Hammerstein, and Matthew Kaar highlight the development of cybersecurity challenges for the President's Cup Cybersecurity Competition and guidelines and best practices for developing effective challenges.

[**See more blogs »**](#)



[An Exploration of Enterprise Technical Debt](#)

Stephany Bellomo talks about identifying and remediating enterprise

technical debt.

[The Messy Middle of Large Language Models](#)

Jay Palat and Rachel Dzombak discuss the current landscape of large language models (LLMs) and how to leverage tools built on top of them.

[See more podcasts »](#)



[Latest Publications](#)

[Program Managers—The DevSecOps Pipeline Can Provide Actionable Data](#)

This paper describes the Automated Continuous Estimation for a Pipeline of Pipelines research project, which automates data collection to track program progress.

[2022 SEI Year in Review](#)

The 2022 SEI Year in Review highlights the work of the institute undertaken during the fiscal year spanning October 1, 2021, to September 30, 2022.

[See more publications »](#)



[Latest Videos](#)

[Improving Analytics Using Enriched Network Flow Data](#)

Tim Shimeall and Katherine Prevost discuss how to use IPFIX-formatted data with detail derived from deep packet inspection (DPI) to provide increased confidence in identifying behavior.

[Agree on a Generally Accepted Set of Basic ZT Definitions](#)

Matthew Nicolai speaks to the need for a generally accepted set of basic zero trust definitions.



[Upcoming Events](#)

Webcast - [Top 5 Challenges to Overcome on Your DevSecOps Journey](#), May 2

Hasan Yasar and Joe Yankel discuss the top five challenges and barriers to implementing DevSecOps practices in this free webcast.

[DevSecOps Days Pittsburgh 2023](#), May 11

This free event on integrating security into DevOps practices will be held virtually by the SEI.

[Secure Software by Design](#), June 12-13

This in-person event in the SEI's Arlington, Va., location promotes making security an integral aspect of the entire software lifecycle.

[See more events »](#)



Upcoming Appearances

[RSA Conference 2023](#), April 24-27

Meet with CERT Division staff at the SEI booth #1643.

[See more opportunities to engage with us »](#)



Upcoming Training

[Software Architecture Design and Analysis](#)

June 5-8 (SEI Live Online)

[Foundations of Incident Handling](#)

August 22-25 (SEI Pittsburgh, Pa.)

[See more courses »](#)



Employment Opportunities

[Senior Space Systems Agile Champion](#)

[Embedded Software Engineer](#)

[Cybersecurity Operations Researcher](#)

[**All current opportunities »**](#)

Carnegie Mellon University
Software Engineering Institute



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