

# SEI Bulletin

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## Architecting the Future of Software Engineering

**November 10, 2021** — Software engineering may soon look like a technical conversation between humans and computers, and the software ecosystem must prepare. That is a conclusion of a new study titled [\*Architecting the Future of Software Engineering: A National Agenda for Software Engineering Research & Development\*](#) that the SEI released last week.

The study identifies areas of research that are critical for enabling future systems, provides a roadmap to guide the research efforts of the software engineering community, and makes a call to action for continual investment in software engineering research to achieve the vision described by the research roadmap.

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[Download the study »](#)

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### [CMU Software Engineering Institute Asserts Bold Vision for Engineering Future Software Systems](#)

Software engineering may soon look more like a technical conversation between humans and computers and the software ecosystem must prepare for that future.

### [FloCon 2022 Opens Registration](#)

The conference on using data to defend returns virtually in January.

### [Siegers Named Recipient of 2021 Linda M. Northrop Software Architecture Award](#)

The pioneering software architect delivered a webcast on October 26.

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### [11 Leading Practices When Implementing a Container Strategy](#)

Andrew Mellinger, William Nichols, and Jay Palat outline 11 leading practices for organizations looking to adopt and use containers.

### [Two Tools for Malware Analysis and Reverse Engineering in Ghidra](#)

Jeffrey Gennari presents two tools for malware analysis and reverse engineering in Ghidra, the National Security Agency's software reverse engineering tool suite.

### [Release of SCAIFE System Version 2.0.0 Provides Support for Continuous-Integration \(CI\) Systems](#)

Lori Flynn describes the new release of the Source Code Analysis Integrated Framework Environment (SCAIFE) and the status of SEI work on SCAIFE.

[\*\*See more blogs »\*\*](#)

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## Latest Podcasts

### [The Silver Thread of Cyber in the Global Supply Chain](#)

Matt Butkovic discusses with Suzanne Miller the importance of cyber in the global supply chain and his team's work with the World Economic Forum.

### [Measuring DevSecOps: The Way Forward](#)

Bill Nichols and Hasan Yasar discuss how DevSecOps practices yield software performance information that could innovate software engineering metrics.

### [Bias in AI: Impact, Challenges, and Opportunities](#)

Carol Smith and Jonathan Spring discuss the hidden sources of bias in AI systems and how developers can raise their awareness of bias, mitigate consequences, and reduce risks.

**[See more podcasts »](#)**

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## Latest Publications

### [A Prototype Set of Cloud Adoption Risk Factors](#)

This white paper discusses the results of a study to identify a prototype set of risk factors for adopting cloud technologies.

### [Computing at the Edge: Challenges and Priorities for Software Engineering and AI](#)

This brochure describes eight software and AI engineering challenges in moving compute to the edge.

### [ICSSP 2022 Call for Papers](#)

The SEI is now accepting papers for the International Conference on Software and System Processes (ICSSP), May 20-22, 2022.

**[See more publications »](#)**

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## Latest Videos

Webcast - [A Cybersecurity Engineering Strategy for DevSecOps](#)

Carol Woody presents a strategy for cybersecurity engineering in DevSecOps environments.

Webcast - [CRO Success Factors in the Age of COVID](#)

Brett Tucker, Ryan Zanin, and Abid Adam discuss factors for risk executives to be successful to protect critical assets and leverage new opportunities created by the pandemic.

Webcast - [Zero Trust Journey](#)

Geoffrey Sanders and Tim Morrow discuss the purpose of and how to think about Zero Trust Architecture transition.

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## Upcoming Events

[FloCon 2022](#), January 11-13, 2022

This virtual event focuses on applying any and all collected data to defend enterprise networks.

[International Conference on Software and Systems Processes 2022](#), May 20-22, 2022

This conference gathers researchers and practitioners to share about software and system processes and global software engineering.

**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 »](#)

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## Upcoming Training

## [Foundations of Incident Management](#)

December 6-9, 2021 (SEI, Live Online)

## [Cybersecurity Oversight for the Business Executive](#)

January 19-20, 2022 (SEI, Live Online)

## [Software Architecture: Principles and Practices](#)

January 24-27, 2022 (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](mailto:courseregistration@sei.cmu.edu) or +1-412-268-7388.

**[See more courses, including live-online and eLearning offerings »](#)**



## [Employment Opportunities](#)

[Principal Network Design Engineer](#)

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**Carnegie Mellon University**  
Software Engineering Institute



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