

SEI Bulletin

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2021 SEI Research Review Materials Available

November 24, 2021 — Videos and presentations from the 2021 SEI Research Review, held November 8-10, are now available. The virtual event highlighted recent, innovative research projects through a mix of technical presentations and conversations among SEI subject matter experts and their collaborators working in sponsor, customer, and academic organizations.

The event featured a keynote address by Under Secretary of Defense for Research and Engineering (OUSD(R&E)) Heidi Shyu. SEI experts gave presentations on artificial intelligence, machine learning, cyber-physical systems, code analysis, quantum advantage, and much more.

[Explore the 2021 SEI Research Review collection »](#)

[Watch the videos on YouTube »](#)



[International Conference on Software and Systems Processes 2022 Opens Call for Submissions](#)

Abstracts and proposals are due in January 2022.

[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.

[**See more news »**](#)



[From Model-Based Systems and Software Engineering to ModDevOps](#)

Jerome Hugues and Joe Yankel introduce ModDevOps, an extension of DevSecOps that embraces model-based systems engineering (MBSE) technology.

[Software Engineering as a Strategic Advantage: A National Roadmap for the Future](#)

Anita Carleton, John Robert, Mark Klein, and Erin Harper describe a multi-year research and development vision and roadmap for engineering next-generation software-reliant systems.

[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.

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Latest Podcasts

[Software Engineering for Machine Learning](#)

Grace Lewis and Ipek Ozkaya discuss their research into software engineering for machine learning (ML) with host Jonathan Spring.

[Enabling Transition from Sustainment to Engineering within the DoD](#)

Thomas Evans and Douglas C. Schmidt discuss challenges sustainment teams face when transitioning from sustainment to engineering in the DoD.

[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.

[**See more podcasts »**](#)



Latest Publications

[SEI Research Review 2021](#)

Videos and presentations from the 2021 SEI Research Review.

[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.

[**See more publications »**](#)



Latest Videos

YouTube - [2021 SEI Research Review](#)

Presentations and talks at the 2021 SEI Research Review.

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.



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 »](#)



Upcoming Training

[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)

[Creating a Computer Security Incident Response Team](#)

February 8, 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 or +1-412-268-7388.

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



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