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 »

Latest Blogs

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.

See more blogs »
**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**

---
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 »

Employment Opportunities

Machine Learning Research Scientist
Associate Software Engineer
DevOps Engineer

All current opportunities »

Copyright © 2021 Carnegie Mellon University Software Engineering Institute, All rights reserved.
Want to subscribe or change how you receive these emails? You can subscribe, update your preferences, or unsubscribe from this list.