

# SEI Bulletin

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## SEI Coauthors Responsible AI Guidelines

**December 8, 2021** — The Department of Defense's Defense Innovation Unit (DIU) recently released a report on responsible artificial intelligence (AI), coauthored by DIU and the SEI. *Responsible AI Guidelines in Practice* offers a framework for how AI systems developed as part of DIU programs can be built in a way that aligns with the DoD AI Ethical Principles.

"Guidance is needed for how to implement AI systems that are responsible and ethical," said Carol Smith, an SEI senior research scientist in human-machine interaction and one of the report's authors. "Our work developing the DIU *Responsible AI Guidelines* is providing actionable guidance to do this important work."

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### [SEI Coauthors Responsible AI Guidelines](#)

The new report from the Defense Innovation Unit makes progress towards operationalizing the Department of Defense's Ethical Principles for AI.

### [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.

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### [Technical Issues in Navigating the Transition from Sustainment to Engineering Software-Reliant Systems](#)

This post explores technical issues that must be addressed as sustainment teams transition to organic software engineering responsibilities.

### [Operating at the Edge](#)

Marc Novakouski and Grace Lewis explore concepts and challenges of operating at the edge: remote locations away from central computing resources where resources are constrained.

### [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.

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## Latest Podcasts

### [A Discussion on Automation with Watts Humphrey Award Winner Rajendra Prasad](#)

2020 IEEE Computer Society SEI Watts Humphrey Software Quality Award winner Rajendra Prasad of Accenture talks with Mike Konrad of the SEI talks about automation.

### [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.

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## Latest Publications

### [Using Machine Learning to Increase NPC Fidelity](#)

This technical report describes how the authors used machine learning modeling to create decision-making preferences for non-player characters (NPCs).

### [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.

**[See more publications »](#)**

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## 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.

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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

[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](mailto:courseregistration@sei.cmu.edu) or +1-412-268-7388.

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



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