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Carnegie Mellon University
Software Engineering Institute

SEI Bulletin — June 12, 2019

SEI Experts Show How Artificial Intelligence Can Discover Hidden Flaws in Software Code

Writing secure software is incredibly difficult. There are many techniques available to help developers find bugs hiding in their code, but none are perfect, and an adversary needs only one to cause problems. In a June 4 webcast, the CERT Division's Eliezer Kanal, Nathan VanHoudnos, and Ben Cohen discussed how a branch of artificial intelligence called Natural Language Processing, or NLP, is being applied to computer code.

NLP can help developers better understand what our computers are creating and find bugs that are invisible to existing techniques. While this field is still young, it is advancing rapidly. In the webcast, now available for viewing on demand, the SEI's experts talk about the current state of the art and what is expected in the near future.

Watch the recording.

SEI NEWS

- Cyber Intelligence Report Outlines Best Practices and Biggest Challenges
- New SEI Book on Managing Technical Debt Published
- SEI Announces Winner of 2019 Linda M. Northrop Software Architecture Award

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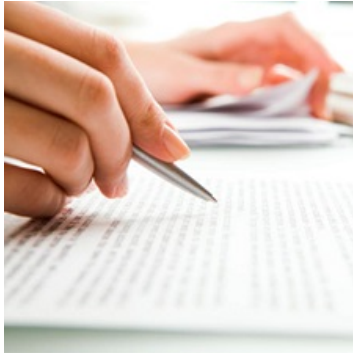
SEI Publications

- [Cyber Intelligence Tradecraft Report: The State of Cyber Intelligence Practices in the United States](#)
- [Artificial Intelligence and Cyber Intelligence: An Implementation Guide](#)
- [Cybersecurity Careers of the Future](#)

SEI Blog
Recent posts

- [The Vectors of Code: On Machine Learning for Software](#)
- [After the Cyber Resilience Review: A Targeted Improvement Plan for Service Continuity](#)
- [High-Level Technique for Insider Threat Program's Data Source Selection](#)
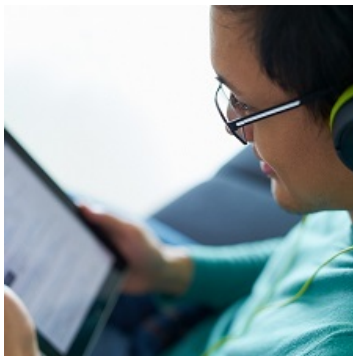
SEI Podcast Series
Available in video and audio formats

- [Defending Your Organization Against Business Email Compromise](#)
- [My Story in Computing with Dr. Eliezer Kanal](#)
- [Women in Software and Cybersecurity: Eileen Wrubel](#)

SEI Events
Featured events

- [NatCSIRT 2019](#)
- [Software Engineering Workshop for Educators](#)
- [Software and Cyber Solutions Symposium 2019](#)

SEI Videos
Short videos of SEI work from our experts

- [Secure Your Code with AI and NLP](#)
- [How to Build a Computer from Scratch](#)
- [SEI Cyber Talk: What's Going on with Near-Term Quantum Computing?](#)

SEI Training

- [DevSecOps Process and Implementation](#)
  September 10-12, 2019 (SEI Arlington, Va.)
- [Foundations of Incident Management](#)
  September 10-13, 2019 (SEI Arlington, Va.)

SEI Careers

Featured opportunities

- [Senior Linux Systems Administrator](#)
- [Associate Solutions Engineer](#)
- [Software Engineer](#)
- [All Current Opportunities](#)

About the SEI Bulletin

The SEI Bulletin is a biweekly newsletter designed to keep you up to date on SEI news, events, research, and other matters of interest to the SEI community. We hope you find the SEI Bulletin useful and informative.

Send Us Your Story

Do you have a story about how an SEI technology has positively affected your team or organization? If so, the SEI would like to hear about it. Send a short summary of your success to info@sei.cmu.edu, and you could be featured in a future issue of the SEI Bulletin.

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