SEI BULLETIN

Software Engineering Institute | Carnegie Mellon University

In This Issue

News: Poort Named Winner of 2016 Linda N. Northrop Software Architecture Award

The SEI has named Eltjo Poort, Distinguished Solution Architect at CGI in The Netherlands, the winner of the 2016 Linda N. Northrop Software Architecture Award. This honor recognizes an individual or team using software architecture to improve organizational practices or software development. Poort will receive the award at the 2016 SEI Software Architecture Technology User Network (SATURN) Conference, which will convene May 2-5, 2016, in San Diego, California.

Eltjo Poort

[Learn more about Poort's work and the Linda N. Northrop Software Architecture Award](#).

Also in the news:

- [SEI Staff Members Named Fellows of ASQ](#)
- [More Than 200 Thought Leaders Convene to Spur Pittsburgh's Role as Center for Cybersecurity Innovation](#)
- [SEI's Kevin Fall Named ACM Fellow](#)
- [SEI Cybersecurity Expert Joins White House Office of Science and Technology Policy](#)

SEI Podcast Series: Toward Efficient and Effective Software Sustainment

The Department of Defense (DoD) must focus on sustaining legacy weapons systems that are no longer in production, but are expected to remain a key component of our defense capability for decades to come. Despite the fact that these legacy systems are no longer in the acquisition phase, software upgrade cycles are needed to refresh their capabilities every 18 to 24 months. In addition, significant modernization can often be made by more extensive, focused software upgrades with relatively modest hardware changes.

In this podcast, the SEI's Mike Phillips discusses effective sustainment engineering efforts in the Army and Air Force, using examples from across its

Mike Phillips

software engineering centers. These examples are tied to SEI research on capability maturity models, agility, and the Architecture Analysis & Design Language (AADL) modeling notation.

Listen to or view the podcast.

SEI Blog: What Ant Colonies Can Teach Us About Securing the Internet

In cyber systems, the identities of devices can easily be spoofed and are frequent targets of cyber-attacks. Once an identity is fabricated, stolen, or spoofed, it may be used as a nexus to systems, thus forming a Sybil Attack. To address these and other problems associated with identity deception, researchers at the Carnegie Mellon University Software Engineering Institute, New York University's Tandon School of Engineering and Courant Institute of Mathematical Sciences, and the University of Göttingen (Germany), collaborated to develop a deception-resistant identity management system inspired by biological systems, namely, ant colonies.

Will Casey

In this blog post, the SEI's Will Casey highlights our research contributions.

Read the post.

Events: SEI Architecture Technology User Network (SATURN) Conference

SATURN is designed for practitioners who are responsible for producing robust software architectures and those who view software architecture as a critical element of achieving their business goals.

As the premier architecture conference for senior engineers, SATURN has traditionally offered keynotes and sessions on both essential skills and cutting-edge methods for software architects. SATURN 2016 will continue this tradition with talks covering topics of strong foundations in software architecture as well as software craftsmanship for those pushing the state of the art in this field. This year's keynote speakers are

- **Grady Booch**, IBM Fellow and Chief Scientist at IBM/Watson
- **Daniel Jackson**, Professor of Computer Science, MacVicar teaching fellow, and Associate Director of the Computer Science and Artificial Intelligence Laboratory at MIT
- **Joe Salvo**, Director of GE Global Research

Registration for SATURN 2016 is now open. To learn more and to register, please visit www.sei.cmu.edu/saturn/2016/index.cfm.

Events: Agile in Government Summit 2016

The SEI is cosponsoring the Association for Enterprise Information Agile in Government Summit 2016, to be held May 10-11, 2016 in Washington, DC. The summit will focus entirely on adoption of Agile principles by government programs, agencies, and teams. Leading industry experts and government officials will address

- what Agile techniques are working best
- where Agile and DevOps are best applied
- why Agile requires discipline, skill and training
- how Agile benefits agency performance and mission

Registration and call for presentations are now open.

Learn how you can participate.

SEI Jobs

The SEI is a great place to pursue your passion. Headquartered in Pittsburgh, Pa., the SEI also has offices in the Washington, DC, and Los Angeles, Calif., metropolitan areas.

Interested in working for the SEI? Below are a few recent employment opportunities. For more job listings and full position descriptions, check out the SEI Careers page.

Malware Reverse Engineer

Senior Cybersecurity Engineer - Insider Threat

Network Security Engineer

Cyber Security Engineer - Penetration Tester

Machine Learning Research Scientist

Information Security Analyst
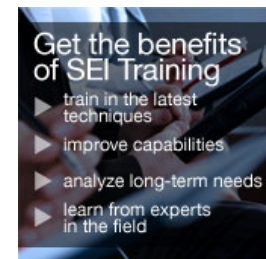
More job listings...

Training Opportunities

Upcoming Classes:

May 25 - 26, 2016 (Pittsburgh, Pa.)
Software Architecture Design and Analysis

June 6 - 10, 2016 (Arlington, Va.)
Applied Cybersecurity, Incident Response and Forensics

2016 Course Schedule
All 2016 Courses

Software Engineering Institute, Carnegie Mellon University
1-888-201-4479

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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.