



SEI BULLETIN - DECEMBER 14, 2016

Note: The SEI Bulletin will be on holiday December 28. It will resume on January 11, 2017.

Why Did the Robot Do That?

The growth and change in the field of robotics in the last 15 years is tremendous, due in large part to improvements in sensors and computational power. These sensors give robots an awareness of their environment, including various conditions such as light, touch, navigation, location, distance, proximity, sound, temperature, and humidity. The increasing ability of robots to sense their environments makes them an invaluable resource in a growing number of situations, from underwater explorations to hospital and airport assistants to space walks. One challenge, however, is that uncertainty persists among users about what the robot senses; what it predicts about its state and the states of other objects and people in the environment; and what it believes its outcomes will be from the actions it takes. In an SEI blog post, research scientist Stephanie Rosenthal of the SEI Emerging Technology Center describes research that aims to help robots explain their behaviors in plain English and offer greater insights into their decision making.

[Read the post.](#)

SEI NEWS

- [FloCon 2017 Announces Conference Program and Keynote](#)
- [SEI to Hold Cyber Intelligence Research Consortium Info Sessions in Chicago, Pittsburgh, and New York](#)
- [Video Highlights Recent SEI STEM Efforts](#)
- [SEI's Robert Binder Honored for Software Testing Excellence](#)
- [High School Students Get Crash Course in Cyber-Kinetic Tactical Operations](#)

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SEI BLOG

Recent posts:

[Why Did the Robot Do That?](#)

[Verifying Software with Timers and Clocks \(STAC\)](#)



SEI PODCAST SERIES

Available in audio and video formats.

[Improving Security through Cyber Intelligence](#)

[A Requirement Specification Language for AADL](#)



SEI EVENTS

This week's featured events:

[Software Solutions Symposium 2017](#)

[FloCon 2017](#)



SEI CYBER MINUTE

SEI experts deliver weekly snapshots of our latest research on the changing world of all things cyber. This week:

[Machine Learning](#)



SEI TRAINING

Upcoming classes:

[Design Guidelines and Patterns for Modern SOA](#)

January 24 - 25, 2017 (Pittsburgh, Pa.)

[Software Architecture Design and Analysis](#)



SEI CAREERS

This week's featured opportunities:

[IT Systems Engineer and System Administrator](#)

[Cybersecurity Engineer - Insider Threat](#)

February 8 - 9, 2017 (Pittsburgh, Pa.)

ABOUT THE SEI BULLETIN

TheSEI 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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