Certifiable Distributed Runtime Assurance in Cyber-Physical Systems

Runtime assurance (RA) has become a promising technique for ensuring the safe behavior of autonomous systems (such as drones or self-driving vehicles) whose behavior cannot be fully determined at design time. The Department of Defense (DoD) is increasingly focusing on the use of complex, non-deterministic systems to address rising software complexity and the use of machine learning techniques. In this environment, assuring software correctness has become a major challenge, especially in uncertain and contested environments. In this SEI Blog post, Dionisio de Niz highlights work by a team of SEI researchers to create tools and techniques that will ensure the safety of distributed cyber-physical systems.

Read the SEI Blog post.
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- ROI Analysis of the System Architecture Virtual Integration Initiative

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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
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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.