

Carnegie Mellon University
Software Engineering Institute



SEI Bulletin — October 3, 2018

Threat Modeling for Cyber-Physical System-of-Systems: Methods Evaluation

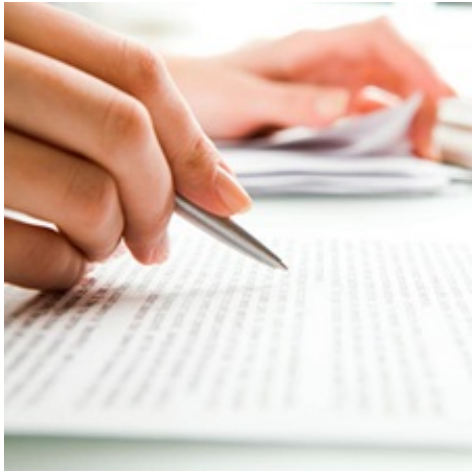
The nature of a cyber-physical system (CPS) implies a diversity of potential threats that can compromise the integrity of the system, targeting different aspects ranging from purely cyber-related vulnerabilities to the safety of the system as a whole. The traditional approach used to tackle this matter is to employ one or more threat modeling methods (TMMs) early in the development cycle. Choosing a TMM can be a challenging process by itself. The TMM you choose should be applicable to your system and to the needs of your organization. Therefore, when preparing for the task, it makes sense to answer two questions. First, what kind of TMMs exist and what are they? And second, what criteria should a good TMM satisfy? SEI researchers Nataliya Shevchenko, Brent Frye, and Carol Woody explored answers to the first question in [Threat Modeling: A Summary of Available Methods](#). In a new white paper, the researchers address the second question and evaluate TMMs against the chosen criteria.

[Read the White Paper.](#)

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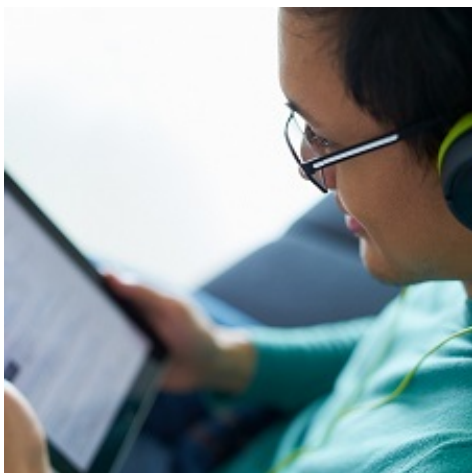
- [Prioritizing Alerts from Multiple Static Analysis Tools Using Classification Models](#)
- [Navigating the Insider Threat Tool Landscape: Low-Cost Technical Solutions to Jump-Start an Insider Threat Program](#)



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