Security is crucial to the software that we develop and use. With the incredible growth of both Web, Cloud and Grid services, security is becoming even more critical.

Securing your network is not enough! Every service that you deploy is a window into your data centre from the outside world and a window that could be exploited by an attacker.

This workshop is relevant to anyone wanting to learn about minimising security flaws in the software they develop or manage. Our presenters will share their experiences gained from performing vulnerability assessments of critical middleware. You will also learn skills critical for software developers and analysts concerned with security.

Workshop: Secure Coding & Automated Assessment Tools
Continuing Professional Development Course - Full Day Workshop
Presented by: Prof. Barton P. Miller and Prof. Elisa Heymann - University of Wisconsin-Madison

When: Friday 24 May 2019
Venue: Industry Hub - Room 313A
Advanced Engineering Building (#49)
The University of Queensland, St Lucia
Cost: $750 pp
(Group and early-bird discount available)
Registrations: cpd@eait.uq.edu.au
The goals of this workshop are to teach developers to think about security issues, provide specific techniques for writing secure code and provide participants with the tools they need to help improve the security of their code.

**Workshop Overview**

- Focus on programming practices to avoid security vulnerabilities
- Learn about automated tools for finding security weaknesses
- Discover the most common vulnerabilities found in middleware and services and how these occur in code including C, C++, Java Python and Perl
- Find out how to use different commercial and open source tools using the SWAMP (Software Assurance Marketplace)

The University of Queensland is excited to be hosting Professor Barton Miller and Professor Elisa Heymann from the University of Wisconsin to deliver their “Secure Coding and Automated Assessment Tools” workshop for the first time in Australia.

**About the Presenters**

**Barton Miller** is the Vilas Distinguished Achievement Professor, and Amar & Belinder Sohi Professor of Computer Sciences at the University of Wisconsin. He is Chief Scientist for the DHS Software Assurance Marketplace research facility and is Software Assurance Lead on the NSF Cybersecurity Center of Excellence. In addition, he co-directs the MIST software vulnerability assessment project in collaboration with his colleagues at the Autonomous University of Barcelona. He also leads the Paradyn Parallel Performance Tool project, which is investigating performance and instrumentation technologies for parallel and distributed applications and systems. His research interests include systems security, binary and malicious code analysis and instrumentation, extreme scale systems, parallel and distributed program measurement and debugging, and mobile computing.

Miller’s research is supported by the U.S. Department of Homeland Security, U.S. Department of Energy, National Science Foundation, NATO, and various corporations.

In 1988, Miller founded the field of Fuzz random software testing, which is the foundation of many security and software engineering disciplines. In 1992, Miller (working with his then-student, Prof. Jeffrey Hollingsworth), founded the field of dynamic binary code instrumentation and coined the term “dynamic instrumentation”. Dynamic instrumentation forms the basis for his current efforts in malware analysis and instrumentation.

**Elisa Heymann** is a Senior Scientist on the NSF Cybersecurity Center of Excellence at the University of Wisconsin, and an Associate Professor at the Autonomous University of Barcelona. She co-directs the MIST software vulnerability assessment at the Autonomous University of Barcelona, Spain. She was also in charge of the Grid/Cloud security group at the UAB, and participated in two major Grid European Projects: EGI-InSPIRE and European Middleware Initiative (EMI). Heymann’s research interests include security and resource management for Grid and Cloud environments. Her research is supported by the NSF, Spanish government, the European Commission, and NATO.

For further details, please contact:
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Or visit: www.eait.uq.edu.au/secure-coding-workshop