

The 8th IEEE International Workshop on Security, Trust, and Privacy for Software Applications (STPSA 2013)

Held in conjunction with COMPSAC, the IEEE Signature Conference on Computers, Software, and Applications

Website: <http://compsac.cs.iastate.edu/mainconference.php>

July 22-26, 2013

Kyoto, Japan

GOAL OF THE WORKSHOP

This workshop will bring together researchers from both academia and industry to discuss methods and tools to achieve security, trust, and privacy (STP) goals of both traditional and emerging Web-based software applications. The workshop will focus on techniques, experiences, and lessons learned with respect to the STP aspects of software specification, design, implementation, testing, and deployment.

THEME AND SCOPE OF THE WORKSHOP

The Internet has become an indispensable global platform that glues together daily communication, sharing, trading, collaboration, and service delivery using software applications. This is a witness that our society is increasingly dependant on software applications. Internet users often store and manage critical information that can attract cyber-criminals who misuse web-based programs and the Internet to exploit vulnerabilities for illegitimate benefits (such as for underground economy, violating privacy, etc.). Malicious programs are taking an alarmingly significant share of web-based attacks to evade the Security, Privacy, and Trust (STP) of software applications, and hence end-users. As noted also in several security incidents, this situation has been amplified by recent technological developments such as cloud computing, pervasive computing, mobile devices, by making the distrusted Internet an integral component of software applications. As such, the traditional host-based approaches (e.g., antivirus, firewall) to securing a software application alone are no longer sufficient to address the STP issues of such emerging software applications. The STP issues must be addressed throughout the lifecycle of a software application, including its design, implementation, testing, and deployment. The principal challenge of existing approaches in developing STP-aware software is the lack of consideration, methods, and tools for addressing STP issues during the software development processes and runtime operations.

Topics of interest include, but are not limited to, the following:

- STP specific software development practices
- STP requirements elicitation and specification

- Models and languages for STP-aware software specification and design
- Architecture for STP-aware software development
- Testing STP properties of software applications
- Formal analysis of STP properties in emerging software applications
- Runtime monitoring of STP properties
- STP configuration, management and usability issues in software applications
- Security, trust, and privacy (STP) challenges and solutions in Web-based applications
- STP challenges and solutions in Cloud computing applications
- STP challenges and solutions in pervasive applications
- STP challenges and solutions in mobile applications
- STP challenges and solutions in e-services such as e-health, e-government, e-banking, etc
- STP challenges and solutions in distributed or sensor-based software applications
- STP-aware service discovery mechanisms for pervasive computing environments
- Experience reports on developing STP-aware software
- Teaching STP-aware software development

This year, we also solicit papers that focus on systematization of knowledge with respect to STP. The goal of this call is to encourage work that evaluates, systematizes, and contextualizes existing practices and knowledge with respect to STP.

IMPORTANT DATES

TBD, 2013: Workshop paper submission

TBD, 2013: Workshop paper author notification

TBD, 2013: Camera-ready & author registration

SUBMISSION

Papers **MUST** be submitted electronically via the workshop submission page (<http://myreview.cs.iastate.edu/STPSA2013>) and **MUST** follow the IEEE Computer Society Press Proceedings Author Guidelines (<http://www.computer.org/portal/web/cscps/submission>). All papers will be carefully reviewed by at least three reviewers. Papers can be submitted as regular papers (six pages), and the acceptance will depend on reviewer feedback. All accepted papers will be published in the workshop proceedings of the IEEE Computer Software and Applications Conference (COMPSAC 2013) by the IEEE CS Press. At least one of the authors of each accepted paper or fast abstract must register as a full participant of the workshop to have the paper or fast abstract published in the proceedings. Each accepted paper must be presented in person by an author.

WORKSHOP ORGANIZERS

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For COMPSAC' 13, please visit <http://compsac.cs.iastate.edu/mainconference.php>