

CALL FOR PAPERS

4th International Workshop on Quality of Protection (QoP 2008)

October 27, 2008
Alexandria, VA, USA

Co-located with the 15th ACM Computer and Communications Security Conference (CCS 2008)

In the last few decades, Information Security has gained numerous standards, industrial certifications, and risk analysis methodologies. However, the field still lacks the strong, quantitative, measurement-based assurance that we find in other fields. For example, Networking researchers have created and utilize Quality of Service (QoS), Service Level Agreements (SLAs), and performance evaluation measures. Empirical Software Engineering has made similar advances with software measures: processes to measure the quality and reliability of software exist and are appreciated in industry.

Security looks different. Even a fairly sophisticated standard such as ISO17799 has an intrinsically qualitative nature. Notions such as Security Metrics, Quality of Protection (QoP) or Protection Level Agreement (PLA) have surfaced in the literature, but they still have a qualitative flavor. Furthermore, many recorded security incidents have a non-IT cause. As a result, security requires a much wider notion of "system" than do most other fields in computer science. In addition to the IT infrastructure, the "system" in security includes users, work processes, and organizational structures.

The goal of the QoP Workshop is to help security research progress towards a notion of Quality of Protection in Security comparable to the notion of Quality of Service in Networking, Software Reliability, or measures in Empirical Software Engineering.

Submission topics

Original submissions are solicited from industry and academic experts to presents their work, plans and views related to Quality of Protection. The topics of interest include but are not limited to:

- Industrial experience
- Security risk analysis
- Security measures
- Reliability analysis
- Security quality assurance
- Measurement-based decision making and risk management
- Empirical assessment of security architectures and solutions
- Mining data from attack and vulnerability repositories
- Measurement theory
- Formal theories of security measures
- Security measurement and monitoring
- Experimental validation of models
- Simulation and statistical analysis
- Stochastic modeling

Program Chairs

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Important dates

Paper submission due: May 15
Acceptance notification: July 11
Camera-ready papers due: August 10

Additional information about the workshop can be found online at <http://qop-workshop.org>

Paper submission

Original *research papers* are solicited in any of the above mentioned topics describing significant research results. Preliminary research results can be submitted in the form of *short papers*. We also *solicit industry experience reports* about the use of security measures in industrial environments. Industry papers should have at least one author from industry or government, and will be considered for their industrial relevance.

Authors should use the ACM SIG proceedings template when preparing their submission. The page limit for the final proceedings version will be 6 pages in double-column ACM format; short papers are limited to 3 pages. The instructions about the electronic submission are available at the workshop web site. Only PDF or PS files are accepted. Authors of accepted papers will be expected to give full presentations at the workshop.

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