

CALL FOR PAPERS

The web has been emerging as the primary access point to an increasing number of security-sensitive services, which are actively used by millions of people from around the world. Unfortunately, the web was not designed with security in mind and is typically hard to patch, given its complexity and massive user base. Ensuring the security of the web platform without negatively affecting the existing web ecosystem is a key challenge in computer security research and a central prerequisite to a more widespread and trustworthy adoption of online services in security-critical areas, like e-voting and e-government.

This special issue aims to attract novel scientific contributions to the area of web application security. Given the complexity of the web platform, many components need to be secured to guarantee a strong level of protection for web applications, including web browsers, web servers, and their communication protocols: all these components are in the scope of the special issue. At the same time, however, changes to the web platform must be thoroughly evaluated in terms of backward compatibility, usability, and ease of deployment: these aspects are critical to the real-world adoption of web security solutions and, inherently, part of the research problem: submissions specifically dealing with these challenges for new and existing web security solutions thus fit the scope of the special issue. Contributions extending previously published conference papers in a significant way are welcome, as well as work systematizing research on web application security from a novel perspective.

Potential topics include but are not limited to the following:

- ▶ Browser security
- ▶ Formal methods for web security
- ▶ Machine learning for web security
- ▶ Program analysis for web security
- ▶ Security policies for the web
- ▶ Usable web security
- ▶ Web application firewalls
- ▶ Web attacks and defenses
- ▶ Web authentication and authorization
- ▶ Web protocol security
- ▶ Web security architectures
- ▶ Web security measurements
- ▶ Web tracking and online advertisement

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Papers are published upon acceptance, regardless of the Special Issue publication date.

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