

How security and privacy research engages with law and policy: analysis and recommendations

Abstract:

Security and privacy researchers have increasingly engaged with the law and with policymakers, particularly in light of data privacy regulation such as the General Data Protection Regulation (GDPR) and California Consumer Privacy Act (CCPA). We believe this is a positive development: Security and privacy researchers can and should bring technical evidence that will impact policy in a positive direction. But to ensure that research has that impact, it is first important to understand the particular ways in which security and privacy researchers are engaging with law and policymakers, including the categories of problems being studied, the prevalence of law-and-policy-oriented research, and the general depth of engagement. The accuracy of legal claims in security and privacy papers is also important. Where the validity of a research project turns on the accuracy of legal analysis (e.g., a project studying the impact of a privacy law, but misunderstanding the legal requirements), the impact of incorrect legal claims is quite clear. But even where legal claims are less central, legal misunderstandings can dampen potential policy impact (e.g., if a paper recommends a change to a legal regime, but misunderstands existing law).

Thus, we engage in a systematic analysis of security and privacy research over the past ten years. We study the 5484 papers published at five security and privacy conferences (S&P, CCS, NDSS, USENIX, and PETS/PoPETs) over a ten-year period (2014-2023), by conducting a deep dive into a subset of papers with legal and policy engagement. We present preliminary findings, some of which we sketch here: A significant, and increasing, fraction of papers engage at least minimally with law and policymakers. Of those papers engaging more deeply, three broad categories of papers predominate: large-scale measurement studies of legal compliance, technical papers facilitating legal compliance, and calls for changes to legal requirements. Contrary to our initial expectations, security and privacy researchers are engaging with more than just GDPR/CCPA; papers extend into, for example, election laws, finance, and healthcare. On a cursory, nonrepresentative look, we also find several misstatements about legal requirements. We conclude with actionable recommendations that we believe will facilitate impactful security and privacy research.

Reading list

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3. Thomas Linden, Rishabh Khandelwal, Hamza Harkous, and Kassem Fawaz. The privacy policy landscape after the GDPR. In Proceedings on Privacy Enhancing Technologies (PETS), July 2020.

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11. Ross Anderson, *Security Engineering*, Third Edition (2021)
12. James Grimmelman, *Internet Law: Cases and Problems*, Thirteenth Edition (2023), chapters 5 and 7.