

2ND ANNUAL CYBER-SECURITY RESEARCH ETHICS DIALOGUE & STRATEGY

Erin Kenneally
CAIDA/UC San Diego
erin@caida.org

Michael Bailey
University of Michigan
mibailey@eecs.umich.edu

IEEE Security
& Privacy
Symposium
San Jose, CA
17 May, 2014

REVIEW CREDITS I

■ Purpose

- Educate participants about underlying ethics principles and applications;
- Discuss ethical frameworks and how they are applied across the various stakeholders and respective communities who are involved;
- Impart recommendations about how ethical frameworks can be used to inform policymakers in evaluating the ethical underpinning of critical policy decisions;
- Explore cybersecurity research ethics techniques, tools, standards and practices so researchers can apply ethical principles within their research methodologies; and
- Discuss specific case vignettes and explore the ethical implications of common research acts and omissions.

CREDS I → CREDS II

- The shifting roles, responsibilities, and relationships between Researchers, Ethics Review Boards (ERB), Government, Professional Societies, and Program Committees in incentivizing and overseeing ethical research

- 1. What leadership should be engaged (i.e., institutional, government, peer groups), and what should their respective roles and responsibilities be?
- 2. What education and awareness is needed?
- 3. What information sharing/coordination needs to be improved between and among researchers & overseers?
- 4. What knowledge and technology-transfer mechanisms can meet stated needs?

AGENDA

09:00 - 09:15 - Why are we spending a sunny Saturday afternoon in a conference room talking about ethics???

- Expectation setting for the Day
- Brief intros

09:15 - 10:00 - Exploring the Pillars of a More Effective Research Ethics Culture

- What education and awareness is needed?
 - "Case Study in Developing Malware Ethics Education," John Sullins
- What information sharing/coordination, and knowledge and technology transfer mechanisms need to be developed or improved to meet ethical needs?
 - Ethics in Data Sharing - Developing a Model for Best Practice," Sven Dietrich, et al.

10:00 - 10:30 - Nerve Juice

10:30 - 12:00 - Exploring the Pillars - Community and Leadership

- Ethics and Big Data
- What leadership should be engaged (i.e., institutional, government, peer groups), and what should their respective roles and responsibilities be?
- What is the role of Program Committees in ensuring published papers meet standards of ethics?
- What might the focus and structure of a community-informed "best practices" look like?
 - "Position Paper and Proposal: Four Ethical Issues in Online Trust," Robin Wilton
 - Maritza Johnson, Facebook

12:00 - 13:00 - Vittles

13:00 - 14:30 - Exploring the Pillars in Practice: the growing market of practical controversies where both industry and researchers have a stake/co-dependency in the outcomes

- Botnet takedown (e.g. proxying consent & safeguarding privacy for vulnerable users, account suspension/blocking thresholds and criteria), Paul Vixie, Farsight
- Group Discussion

14:30 - 14:45 - Closing Remarks

(PSEUDO) BERNOULLI COMMENTARY

- Ethical norms are (still) green (eg, in light of dilution/distance)
- Notions of “harm” need to be developed
 - Algorithm harms? what values are implicit; what subtle influences are exerted (eg, Retro-future Time Travel, Correlating PREDICT data and Twitter); how is accountability applied
 - Is collection limitation principle relevant when the harm stems from the statistical/computational/algorithmic applications?
- Multi-stakeholder tensions rise (eg, rt to be forgotten v. rt to know; notice & consent v. use based approach)

POST-OP

- Publish workshop report
 - CREDS: Kenneally, E., Bailey, M., <http://dx.doi.org/10.1145/2602204.2602217>)
- Reminder: Face-lift: Menlo:
http://www.caida.org/publications/papers/2012/menlo_report_actual_formatted/
Companion:
<http://ssrn.com/abstract=2342036>
- Follow-on collaboration
 - Internet Society (ISOC)
- Presentation & Paper- "How to Throw the Race to the Bottom – Toward a Code of Conduct for Ethical & Legal Risks with the Collection and Disclosure of Internet Data for ICT Research” Human Aspects of Security Workshop, HCI International 2014, June '14
- Re-assess the need space and force multiply
 - Community Review Board?
 - Virtual Case Study Library and Vetting Forum?
 - Hitch a new wagon?