

Security economics, security modelling, and policy.

- (1) Albesë Demjaha, Tristan Caulfield, M. Angela Sasse, and David Pym. Fast 2 Secure: A Case Study of Post-Breach Security Changes. In: *Proc. 4th European Workshop on Usable Security, EuroUSEC 2019*, IEEE 2019. Stockholm, Sweden, June 20, 2019. To appear: IEEE Xplore. [Manuscript](#).
- (2) J.M. Spring, T. Moore, and D. Pym. Practicing a Science of Security: A Philosophy of Science Perspective. To appear: *Proc. New Security Paradigms Workshop, Islamorada, FL, USA, 2-4 Oct., 2017*. doi: 10.475/xxx-x. [Manuscript](#).
- (3) T. Caulfield, C. Ioannidis, and D. Pym. The U.S. Vulnerabilities Equities Process: An Economic Perspective. *Proc. GameSec 2017*, LNCS 10575:131–150, 2017. [Manuscript](#).
- (4) T. Caulfield, C. Ioannidis, and D. Pym. On the adoption of privacy-enhancing technologies. *Proc. GameSec 2016*, LNCS 9996:175-194, 2016. [Manuscript](#).
- (5) C. Ioannidis, D. Pym, and J. Williams (2016). Is Public Co-Ordination of Investment in Information Security Desirable? *Journal of Information Security* 7, 60-80, 2016. doi: 10.4236/jis.2016.72005.
- (6) A. Baldwin, I. Gheyas, C. Ioannidis, D. Pym, and J. Williams. Contagion in Cybersecurity Attacks. *J. of the Operational Research Society*, 68(7):780–791, 2017. doi: 10.1057/jors.2016.37. [Manuscript](#).
- (7) T. Caulfield, C. Ioannidis, and D. Pym. Discrete Choice, Social Interaction, and Policy in Encryption Technology Adoption. *Proc. Financial Cryptography and Data Security 2016*. [Manuscript](#).
- (8) T. Caulfield and D. Pym. Modelling and Simulating Systems Security Policy. In *Proc. SIMUTools 2015*, ACM Digital Library [SIMUTools 2015](#). The [Julia](#) package used for creating system models may be obtained from GitHub [here](#).
- (9) T. Caulfield and D. Pym. Improving Security Policy Decisions with Models. *IEEE Security and Privacy*, 13(5), 34-41, Sept/Oct 2015. [Manuscript](#). Published article. The [Julia](#) package used for creating system models may be obtained from GitHub [here](#).
- (10) T. Caulfield, D. Pym, and J. Williams. Compositional Security Modelling: Structure, Economics, and Behaviour. LNCS 8533: 233–245, 2014. [Manuscript](#).
- (11) C. Ioannidis, D. Pym, J. Williams, and I. Gheyas. Resilience in Information Stewardship. In *Proc. WEIS 2014*, Pennsylvania State University, June 2014. [Paper](#).
- (12) C. Ioannidis, D. Pym, and J. Williams. Sustainability in Information Stewardship: Time Preferences, Externalities, and Social Co-ordination. In *Proc. WEIS 2013*, Georgetown University, June 2013. [Paper](#).
- (13) G. Anderson, M. Collinson, and D. Pym. Utility-based Decision-making in Distributed Systems Modelling [Extended Abstract]. Proc. TARK 2013, Burkhard C. Schipper (editor), Chennai, 2013. Computing Research Repository (CoRR): <http://arxiv.org/corr/home>. ISBN: 978-0-615-74716-3.
- (14) C. Ioannidis, D. Pym, and J. Williams. Fixed Costs, Investment Rigidities, and Risk Aversion in Information Security: A Utility-theoretic Approach. In *Economics of Security and Privacy III*, Bruce Schneier (editor), Springer 2012. pp. 171–192. [Manuscript](#).
- (15) C. Ioannidis, D. Pym, and J. Williams. Information Security Trade-offs and Optimal Patching Policies. *European Journal of Operational Research*, 216(2):434-444, 2012.
- (16) D. Pym and S. Shiu. Information Stewardship in the Cloud. *IISP Pulse* 7 Winter 2011: 6-8. Available at: http://www0.cs.ucl.ac.uk/staff/D.Pym/PULSE_7_final.pdf.
- (17) Contributor to the ENISA report Economics of Security: Facing the Challenges. Luxembourg: Publications Office of the European Union, 2012. ISBN: 978-92-9204-057-4, doi: 10.2824/23063.
- (18) D. Pym and S. Shiu. Security Analytics: Bringing Science to Security Management. *IISP Pulse* 4 Summer 2010: 12-13. Available at <http://www0.cs.ucl.ac.uk/staff/D.Pym/IISPPulse4final.pdf>.
- (19) A. Baldwin, D. Pym, M. Sadler, and Simon Shiu. Information Stewardship in Cloud Ecosystems: Towards Models, Economics, and Delivery. *Proc. CloudCom 2011*. IEEE Digital Library, 784–791, 2011. doi: 10.1109/CloudCom.2011.121.
- (20) Yolanta Beresnevichiene, David Pym, and Simon Shiu. Decision Support for Systems Security Investment. *Proc. Business-driven IT Management (BDIM) 2010*. IEEE Xplore, 2010. Available [here](#).
- (21) Information Stewardship in the Cloud: A Model-based Approach. David Pym, Martin Sadler, Simon Shiu, and Marco Casassa Mont. *Proc. CloudComp 2010*.
- (22) David Pym and Martin Sadler. Information Stewardship in Cloud Computing. *International Journal of Service Science, Management, Engineering, and Technology* 1(1), 50–67, 2010.
- (23) A. Beaument et al. Modelling the Human and Technological Costs and Benefits of USB Memory Stick Security. In *Managing Information Risk and the Economics of Security*. M. Eric Johnson (editor), Springer, 2009: 141–163.
- (24) C. Ioannidis, D. Pym, and J. Williams. Investments and Trade-offs in the Economics of Information Security. *Proc. Financial Cryptography and Data Security 2009*, LNCS 5628: 148-162, 2009.
- (25) D. Pym. Keynote Presentation at the ESRC Public Policy Seminar on the Economics of Information Security, Hewlett-Packard Laboratories, 2009. Available [here](#).