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Explorations in Cyber International Relations:  
A Research Collaboration of MIT and Harvard University

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# Explorations in Cyber International Relations

Massachusetts Institute of Technology Harvard University

## APPENDIX A-1

### ECIR PUBLICATIONS and SCHOLARLY PRODUCTS

#### BOOKS

- Choucri, Nazli. 2012. *Cyberpolitics in International Relations*. Cambridge, MA: MIT Press.
- Choucri, Nazli, David Clark, Stuart Madnick eds. *ECIR Studies on Explorations in Cyberspace and International Relations*.
- Choucri, Nazli and David D. Clark. *The Co-Evolution Dilemma: International Relations in the Cyber Age*, under consideration by MIT Press, in preparation.
- Ellis, Ryan. *The Politics of Critical Infrastructure Protection*, book ms submitted for review. Summer.

#### PUBLISHED CHAPTERS AND ARTICLES

- Chen, Jing and Silvio Micali. "Collusive Dominant-Strategy Truthfulness." *Journal of Economic Theory*. 147 (3) (2012): 1300-1312.
- Chen, Jing and Silvio Micali. "The Order Independence of Iterated Dominance in Extensive Games." *Theoretical Economics*: 8 (2013), 125–163.
- Chen, Jing, Silvio Micali, and Rafael Pass. "Tight Revenue Bounds with Possibilistic Beliefs and Level-k Rationality." *Econometrica* 0 (2015): 1-21.
- Choucri, Nazli and David Clark. "Who Controls Cyberspace?" *Bulletin of the Atomic Scientists*, September 1, 2013.

- Choucri, Nazli. "The Convergence of Cyberspace and Sustainability." *e-International Relations*. April 20, 2012. <http://www.e-ir.info/2012/04/20/the-convergence-of-cyberspace-and-sustainability/>.
- Choucri, Nazli. "Cyberpolitics in International Relations," in *The Oxford Companion to Theoretical Economics* (TE), ed. Joel Krieger, 2012: 267-271. New York: Oxford University Press.
- Choucri, Nazli, Stuart Madnick & Jeremy Ferwerda, *Information Technology for Development* (2013): Institutions for Cyber Security: International Responses and Global Imperatives, Information Technology for Development.
- Clark, David D. and Landau, Susan. "Untangling Attribution." *Proceedings of a Workshop on Deterring Cyberattacks: Informing Strategies and Developing Options for U.S. Policy*, Washington, DC: The National Academies Press, 2010: 25-40 and *Harvard National Security Journal*, 2011. <http://harvardnsj.org/2011/06/untangling-attribution/>.
- Finlayson, Mark. "Report of the AAAI 2010 Fall Symposia: Computational Models of Narrative." *AI Magazine*, 32(1) (2011): 96-97.
- Finlayson, Mark (ed). *The Third Workshop on Computational Models of Narrative*. (CMN'12) May 2012.
- Hathaway, Melissa E. "Leadership and Responsibility for Cybersecurity." *Georgetown Journal of International Affairs* Special Issue (2012): 71-80.
- Hathaway, Melissa E. "Falling Prey to Cybercrime: Implications for Business and the Economy." Chap. 6 in *Securing Cyberspace: A New Domain for National Security*. Queenstown, Md.: Aspen Institute, February 2012.
- Hathaway, Melissa E. and Alexander Klimburg. "Preliminary Considerations: On National Cyber Security." Chap. 1 in *National Cyber Security Framework Manual*. Tallinn, Estonia: NATO Cooperative Cyber Defence Centre of Excellence, December 2012.
- Hathaway, Melissa. "NATO and the EU in Cyberspace: The Power of Both for the Good of All." *Security Europe*, November 2011.

- Henschel, Andreas. Erik Casagrande, Wei Lee Woon, Isam Janajreh, and Stuart Madnick. 2012. "A Unified Approach for Taxonomy-Based Technology Forecasting," in *Business Intelligence Applications and the Web: Models, Systems and Technologies*. eds. Marta E. Zorrilla, Jose-Norberto Mazón, Óscar Ferrández, Irene Garrigós, Florian Daniel and Juan Trujillot. IGI Global: 178-197.
- Hurwitz, Roger. "Depleted Trust in the Cyber Commons." *Strategic Studies Quarterly*, 6 (3) (Fall 2012): 20-45.
- Hurwitz, Roger. "The Disunity of Cyberspace," in J-F. Kremer & B. Muller, eds., *Cyber Space and International Relations: Theory, Prospects and Challenges*. (Springer Verlag, 2013).
- Kello, Lucas. "The Meaning of the Cyber Revolution: Perils to Theory and Statecraft," *International Security*. Vol. 38, No. 2 (Fall 2013).
- Kello, Lucas. "Security," *The Oxford Companion to International Relations* (Oxford University Press, 2013).
- Li, Xitong, Yushun Fan, Stuart Madnick, Quan Z. Sheng. "A pattern-based approach to protocol mediation for web services composition." *Information and Software Technology* 52 (3) (2010): 304–323.
- Madnick, Stuart, Nazli Choucri, Steven Camina and Wei Lee Woon. "Towards Better Understanding Cybersecurity: or are 'Cyberspace' and 'Cyber Space' the same?" (2012) *pre-ICIS Workshop on Information Security and Privacy (SIGSEC)*. Paper 27. <http://aisel.aisnet.org/wisp2012/27/>.
- Mallery, John, Michael R. Nelson (Academic Co-chairs). "A Report from the Commission on the Leadership Opportunity in U.S. Deployment of the Cloud (CLOUD2)." TechAmerica Foundation. July 2011. <http://www.techamericafoundation.org/cloud-commission>.
- Mohan, Vivek and John Villasenor. "Decrypting the Fifth Amendment: The Limits of Self-Incrimination." *University of Pennsylvania Journal of Constitutional Law Heightened Scrutiny* 15 (October 2012): 11-28. <https://www.law.upenn.edu/journals/conlaw/heightened-scrutiny/>.
- Nye, Jr., Joseph S. 2011. "Soft Power," in *The Future of Power*. New York: Public Affairs Press, 81-109.

- Nye, Jr., Joseph S. “Nuclear Lessons for Cyber Security?” *Strategic Studies Quarterly*, 5, no. 4, (Winter 2011): 18-38.
- Nye, Joseph S. Jr. “The Twenty-First Century Will Not Be a 'Post-American' World.” *International Studies Quarterly* 56, no. 1 (March 2012): 215-217.
- Nye, Joseph S. Jr. and Jack Landman Goldsmith. “The Future of Power.” *Bulletin of the American Academy of Arts and Sciences*. Spring 2011.
- Shukla, Aadya. “Stance in Cyberspace: India and China.” Submitted by invitation, *Foreign Policy*. Intended for publication, 2013.
- Vaishnav, Chintan, Nazli Choucri and David D. Clark. “Cyber International Relations as an Integrated System. *Environ Syst Decis* (2013) 33:561–576. Published online: 17 November 2013  
Springer Science Business Media New York, 2013.
- Winston, Patrick. “The Next 50 Years: A Personal View.” *Biologically Inspired Cognitive Architectures*. 1 (July 2012): 92–99.
- Winston, Patrick H. “The Strong Story Hypothesis and the Directed Perception Hypothesis.” In Pat Langely, ed., in *Technical Report FS-11-01, Papers from the AAAI Fall Symposium*, Menlo Park, CA (2011): 345-352.
- Winston, Patrick. “The Strong Story Hypothesis and the Directed Perception Hypothesis.” *AAAI Fall Symposium Series* (2011): December 15, 2011 © 2011 Association for the Advancement of Artificial Intelligence.
- Winston, Patrick. “The Right Way.” *Advances in Cognitive Systems* 1 (2012): 23–36.
- Woon, Wei Lee and Stuart Madnick. “Semantic distances for Technology Landscape Visualization.” *Journal of Intelligent Information Systems* 39 (1) (2012): 29-58.

## **SCHEDULED PUBLICATIONS**

- Basuchoudhary, Atin and Nazli Choucri, “The Evolution of Network Based Security Norms: An Analytical Narrative”, IEEE IRI, 2014.

- Chen, Jing and Silvio Micali. “Mechanism Design with Set-Theoretic Beliefs.” *Proceedings of the IEEE 52nd Annual Symposium on Foundations of Computer Science (FOCS) 2011*, 87–96. *Journal of Economic Theory*, 2013 (in press).
- Choucri, Nazli. “Emerging Trends in Cyberspace: Dimensions & Dilemmas. Prepared for the conference on Cyberspace: Malevolent Actors, Criminal Opportunities and Strategic Competition.” The Matthew B. Ridgway Center for International Security Studies. University of Pittsburg. November 1-2, 2012. Chapter to appear in an edited volume by the *Strategic Studies Institute*.
- Hurwitz, Roger. “A New Normal? The Cultivation of Global Norms as Part of a Cyber Security Strategy,” in *Cyber Power: The Quest for a Common Ground*, ed., P. Yannakogeorgos (Air University Press, forthcoming).
- Ellis, Ryan. “Regulating Cybersecurity: Institutional Learning or a Lesson in Futility?” A review of the first set of mandatory cybersecurity regulations for the electric power industry. Forthcoming, 2014.
- Ellis, Ryan. “Threat Signatures, Intrusion Detection, and Intrusion Prevention: Risks and Opportunities,” forthcoming, 2014.
- Ellis, Ryan. *Letters, Power Lines, and Other Dangerous Things: The Politics of Infrastructure Security*. Book manuscript to be submitted for review. (in progress).
- Kello, Lucas. “The State of European Cybersecurity: Shared Risks & Fragmented Defenses,” in *Explorations in Cyber Politics for the Cyber Age*, edited volume.
- Mohan, Vivek and Jack Goldsmith. Botnet Remediation: “Legal Strategies and Options.” (*Brookings Institute*, forthcoming 2013).

### **WORKING PAPERS in PROGRESS**

- Ellis, Ryan. “Regulating Cybersecurity: A Review,” forthcoming, 2013. A review of the first set of mandatory cybersecurity regulations for the electric power industry.
- Ellis, Ryan. “National Security, Telecommunications, and Regulation,” forthcoming 2013. A consideration current cybersecurity efforts within the context of the long and well-documented intersection of national security, telecommunications, and regulatory policy.

- Ellis, Ryan. “A Public Service or a Commodity? Models of Vulnerability Disclosure.” Harvard Kennedy School Case Study Program, forthcoming 2014. A teaching case devoted to vulnerability disclosure and zero-days.
- Mohan, Vivek. “Data and Information Security: Consent Decrees and the Private Sector,” forthcoming, 2013.

## RESEARCH PAPERS on ECIR WEBSITE

- Abbassi, Puji, Martin Kaul, Vivek Mohan, Yi Shen, Zev Winkelman. Securing the Net: Global Governance in the Digital Domain. Berlin, Beijing, and Washington, D.C.: Report for Global Governance 2022, September 2013.
- Belk, Robert and Matthew Noyes. “On the Use of Offensive Cyber Capabilities: A Policy Analysis on Offensive US Cyber Policy.” Paper, Science, Technology, and Public Policy Program, Belfer Center for Science and International Affairs, Harvard Kennedy School, March 2012.
- Camiña, Steven, Stuart Madnick, Nazli Choucri and Wei Lee Woon. “Exploring Terms and Taxonomies Relating to the Cyber International Research Field: or are ‘Cyberspace’ and Cyber Space’ the same?” ECIR Working Paper, August 2011.
- Chiesa, Alessandro, Silvio Micali and Zeyuan Allen Zhu. “Knightian Auctions.” ECIR Working Paper, January 10, 2012.
- Cho, Yiseul. “Lessons for Cyber security international cooperation.” ECIR Working Paper, July 2012.
- Choucri, Nazli. “Cyberpolitics in International Relations.” *precis*, MIT Center for International Studies. Spring 2013.  
[http://web.mit.edu/cis/precis/2013spring/cyberpolitics.html#Ue\\_4ddLijh4](http://web.mit.edu/cis/precis/2013spring/cyberpolitics.html#Ue_4ddLijh4).
- Clark, David D. “Three Views of Cyberspace.” Version 3.1. ECIR Working Paper, January 5, 2011.
- Clark, David D. “Characterizing Cyberspace: Past, Present, and Future.” ECIR Working Paper, March 12, 2010.
- Goldsmith, Daniel and Michael Siegel. “Systematic Approaches to Cyber Insecurity.” ECIR Working Paper, January 2012.

- Goldsmith, Daniel and Michael Siegel. "Understanding Cyber Complexity: Systems Modeling and the Financial Services Sector." ECIR Working Paper, February, 2010.
- Hill, Jonah Force. "Internet Fragmentation: Highlighting the Major Technical, Governance and Diplomatic Challenges for U.S. Policy Makers." Paper, Science, Technology, and Public Policy Program, Belfer Center for Science and International Affairs, Harvard Kennedy School, May 2012.
- Hung, Shirley. "The Chinese Internet: Control Through the Layers." ECIR Working Paper, October 2012.
- Hurwitz, Roger and Patrick Winston. "Computational Representations of High Profile International Cyber Incidents." Paper presented to the panel Multi-Disciplinary Methods for Cyberspace Research at the Annual Meeting of the International Studies Association. Montreal, Quebec, Canada, March 2011.
- Hurwitz, Roger. "Taking Care: Four Takes on the Cyber Steward." Paper presented to CyberDialogue 2012: What is Stewardship in Cyberspace? Canada Centre for Global Security Studies at the Munk School of Global Affairs, Toronto, Ontario, Canada, March 2012.
- Hurwitz, Roger. "Trip report: The Budapest Cyberspace Conference on Cyberspace 2012," October 3 – 5, 2012.
- Madnick, Stuart, Nazli Choucri, Steven Camiña, Erik Fogg and Xitong Li. "Explorations in Cyber International Relations (ECIR) – Data Dashboard Report #1: CERT Data Sources and Prototype Dashboard System." ECIR Working Paper, August 2009.
- Madnick, Stuart, Wei Lee Woon, Andreas Henschel, Erik Casagrande, Ayse Firat, *et al.* "Technology Forecasting Using Data Mining and Semantics: Third & Final Annual Report." ECIR Working Paper CISL# 2011-01. May 2011.
- Mallery, John. "Trustworthy Cloud Computing: Risks, Challenges And Recommendations." Paper presented at the 2011 Workshop on Cyber Security and Global Affairs, Budapest, Hungary, May 31 – June 2, 2011.
- Maurer, Tim. "Cyber Norm Emergence at the United Nations—An Analysis of the UN's Activities Regarding Cyber-security." Discussion Paper 2011-11, Science, Technology, and Public Policy Program, Belfer Center for Science and International Affairs, Harvard Kennedy School. September 2011.



- Maurer, Tim. "WikiLeaks 2010: A Glimpse of the Future? Discussion Paper 2011-12," Science, Technology, and Public Policy Program, Belfer Center for Science and International Affairs, Harvard Kennedy School. August 2011.
- Micali, Silvio, Jing Chen, and Avinatan Hassidim. "Resilient and Virtually Perfect Revenue from Perfectly Informed Players." ECIR Working Paper. January 13, 2010.
- Mohan, Vivek. "The Electronic Communications Privacy Act (ECPA) & Need for Reform." 2012.
- Mohan, Vivek. "Specialized Services Research and Summaries." Briefing document prepared for the FCC's Open Internet Advisory Committee (Jonathan Zittrain, Chair) 2012.
- Narayanamurti, Venkatesh, Tolu Odumosu, and Lee Vinsel. "The Discovery-Invention Cycle: Bridging the Basic/Applied Dichotomy." Discussion Paper 2013-02, Science, Technology, and Public Policy Program, Belfer Center for Science and International Affairs, Harvard Kennedy School, February 2013.
- Nye, Joseph S. "Cyber Power." Paper, Belfer Center for Science and International Affairs, Harvard Kennedy School, May 2010.
- Ramtin, Amin. "Moving Forward on an International Convention for Cyberspace." Project Minerva Working Paper Series. September 2010.
- Reardon, Robert and Nazli Choucri. "The Role of Cyberspace in International Relations: A View of the Literature." Paper prepared for the 2012 ISA Annual Convention. San Diego, CA. April 1, 2012.
- Sechrist, Michael and Aki Peritz. "Protecting Cyberspace and the U.S. National Interest." ECIR Working Paper. 2010.
- Sechrist, Michael. "Cyberspace in Deep Water: Protecting Undersea Communication Cables by Creating an International Public-Private Partnership." ECIR Working Paper. March 23, 2010.
- Sechrist, Michael. "New Threats, Old Technology: Vulnerabilities in Undersea Communication Cable Network Management Systems." Discussion Paper 2012-03, Science, Technology, and Public Policy Program, Belfer Center for Science and International Affairs, Harvard Kennedy School. February 2012.

- Shukla, Aadya and Roger Hurwitz. "A Framework for Organizing National Security Strategies." Paper presented to the panel on Comparative Security Strategies at the International Studies Association Annual Meeting, San Diego, CA. April 4, 2012.
- Smith, James F. "Confronting Complex Cybersecurity Challenges." *Belfer Center Newsletter*, Belfer Center for Science and International Affairs, Harvard Kennedy School, Summer 2013
- Siegel, Michael and Daniel Goldsmith. "Simulation Modeling for Cyber Resilience." ECIR Working Paper. October 2010.
- Sowell, Jesse H. "A View of Top-Down Governance." Paper presented to NANOG 55, Vancouver BC, June 4, 2012; Global Peering Forum (GPF7.0), New Orleans, LA, March 21, 2012; UKNOF23, London, UK, October 9, 2012 and UKNOF24, London, UK, January 17, 2013.
- Sowell, Jesse H. "Mixed Context and Privacy." ECIR Working Paper. November 2010.
- Williams, Cindy. "Applications of ECIR Modeling Work to Cyber Policy Problems." ECIR Working Paper. March 10, 2010.
- Woon, Wei Lee, Andreas Henschel and Stuart Madnick. "A Framework for Technology Forecasting and Visualization." Working Paper CISL# 2009-11. September 2009.
- Young, William. "A System Safety Approach to Assuring Air Operations Against Cyberspace Disruptions." ECIR Working Paper, February 2013.

### **POSTED on SSRN**

- Clark, David D. "Control Point Analysis." ECIR Working Paper, Version 2.2. September 10, 2012. 2012 TRPC Conference  
[http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=203212](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=203212).
- Choucri, Nazli and David D. Clark. "Integrating Cyberspace and International Relations: The Co-Evolution Dilemma." November 2012. MIT Political Science Department Research Paper No. 2012-29  
[http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2178586](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2178586).

- Choucri, Nazli, Gihan Daw Elbait, and Stuart Madnick. “What is Cybersecurity? Explorations in Automated Knowledge Generation.” November 2012. MIT Political Science Department Research Paper No. 2012-30, November 2012.  
[http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2178616](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2178616).
- Madnick, Stuart, Xitong Li and Nazli Choucri. “Experiences and Challenges with using CERT Data to Analyze International Cyber Security.” *Proceedings of the AIS SIGSEC Workshop on Information Security & Privacy (WISP 2009)* Phoenix, Arizona, December 2009: 6-16. [SWP #4759-09, CISL 2009-13,  
<http://ssrn.com/abstract=1478206> ].
- Madnick, Stuart, Nazli Choucri, Steven Camiña, Erik Fogg, Xitong Li and Wei Fan. “Explorations in Cyber International Relations (ECIR) - Data Dashboard Report #1: CERT Data Sources and Prototype Dashboard System.” September 2009. MIT Sloan Research Paper No. 4754-0  
[http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=1477618](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1477618).
- Micali, Silvio, Nazli Choucri, Jing Chen, Cindy Williams. “Resilient Mechanism Design Foundations for Governance of Cyberspace: Exploration in Theory, Strategy, and Policy.” MIT Political Science Department Research Paper No. 2013-30. August 2013  
[http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2317524](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2317524).
- Rady, Mina. “Anonymity Networks: New Platforms for Conflict and Contention.” MIT Political Science Department Research Paper No. 2013-5. March 2013  
[http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2241536](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2241536).
- Woon, Wei Lee, Andreas Henschel and Stuart Madnick. “A Framework for Technology Forecasting and Visualization.” September 2009. MIT Sloan Research Paper No. 4757-09. [http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=1478054](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1478054).

## WORKSHOP AND CONFERENCE PROCEEDINGS

- Azar, Pablo, Jing Chen, and Silvio Micali. “Crowdsourced Bayesian auctions.” In *Proceedings of the 3rd Innovations in Theoretical Computer Science Conference (ITCS 2012)*. ACM, New York, NY, USA, 236-248. DOI=10.1145/2090236.2090257  
<http://doi.acm.org/10.1145/2090236.2090257>.
- Azar, Pablo and Silvio Micali. Rational proofs. In *Proceedings of the forty-fourth annual ACM symposium on Theory of computing (STOC 2012)*. ACM, New York, NY,

USA, 1017-1028. DOI=10.1145/2213977.2214069  
<http://doi.acm.org/10.1145/2213977.2214069>.

- Clark, David D. and Landau, Susan. "The Problem Isn't Attribution; It's Multi-stage Attacks." *ReARCH '10 Proceedings of the Re-Architecting the Internet Workshop*. ACM New York, NY ©2010.
- Finlayson, Mark and Raquel Hervás. "The Prevalence of Descriptive Referring Expressions." *Proceedings of the ACL 2010 Conference Short Papers*. Uppsala, Sweden. July 11-16, 2010: 49-54.
- Finlayson, Mark and Nidhi Kulkarni. "jMWE: A Java Toolkit for Detecting Multi-Word Expressions." *Proceedings of the 8th Workshop on Multiword Expressions: from Parsing and Generation to the Real World*, (MWE 2011) Portland, OR. June 23, 2011: 122-124.
- Finlayson, Mark. "Sets of Signals, Information Flow, and Folktales." *Proceedings of the Centennial Turing Conference, Special Session on Open Problems in the Philosophy of Information*. Cambridge, England. 2012.
- Finlayson, Mark. "The Story Workbench: An Extensible Semi-Automatic Text Annotation Tool." *Proceedings of the 4th Workshop on Intelligent Narrative Technologies*. Stanford, CA. November 2011: 21-24.
- Finlayson, Mark. "Corpus Annotation in Service of Intelligent Narrative Technologies." *Proceedings of the 4th Workshop on Intelligent Narrative Technologies*. Stanford, CA. November 2011: 17-20.
- Friedman, Allan, Tyler Moore, and Ariel D. Procaccia. "Would a 'Cyber Warrior' Protect Us? Exploring Trade-offs Between Attack and Defense of Information Systems." *Proceedings of the 2010 New Security Paradigms Workshop*. Concord, MA. September 2010: 85-94.
- Goldsmith, Daniel and Michael Siegel. "Cyber Politics: Understanding the use of Social Media for Dissident Movements in an Integrated State Stability Framework." *IEEE Proceedings of the 2012 International Conference on Advances in Social Network Analysis and Mining*. (ASONAM 2012). Istanbul, Turkey. August 2012.
- Houghton, James, Michael Siegel and Daniel Goldsmith. "Modeling the Influence of Narratives on Collective Behavior Case Study: Using social media to predict the

outbreak of violence in the 2011 London Riots.” *Proceedings of The 31st International Conference of the System Dynamics Society*, Cambridge, MA. July 21 – July 25, 2013.

- Houghton, J., Siegel, M., Wirsch, A., Moulton, A., Madnick, S. , Goldsmith, D. “A Survey of Methods for Data Inclusion in System Dynamics Models.” In the *Proceedings of the 32nd International Conference of the System Dynamics Society*. Delft, Netherlands, 2014.
- Houghton, J. Siegel, M. Vukovic, M. Towards a Model for Resource Allocation in API Value Networks. Paper presented at the *Intelligent Service Clouds Workshop 2014*.
- Krakauer, Caryn and Patrick Henry Winston. “Story Retrieval and Comparison using Concept Patterns.” In Mark A. Finlayson, Pablo Gervas, Deniz Yuret, and Floris Bex, eds., in *Proceedings of the 3<sup>rd</sup> workshop on Computational Models of Narrative*, ELRA 3 (2012): 119-124.
- Madnick, Stuart, Nazli Choucri, Xitong Li and Jeremy Ferwerda. “Comparative Analysis of Cybersecurity Metrics to Develop New Hypotheses.” *Proceedings of the Workshop on Information Security & Privacy (WISP2011)* (Jointly hosted by AIS SIGSEC and IFIP TC11.1) Shanghai, China. December 2011.
- Mallery, John. “International Data Exchange and A Trustworthy Host: Focal Areas For International Collaboration In Research And Education.” *Proceedings of the BIC Annual Forum*, Brussels, Belgium. November 29, 2011.
- Micali, Silvio, Pablo Azar, and Jing Chen. “Crowdsourced Bayesian auctions.” *Proceedings of the 3rd Innovations in Theoretical Computer Science (ITCS 2012)* Cambridge, MA. January 2012: 236-248.
- Raja, Anita, Catriona Kennedy and Roger Hurwitz. “Socially Intelligent Agents to support Ethical Decision-making.” *Proceedings of AAMAS 2012 First International Workshop on Human-Agent Interaction Design and Models*. Valencia, Spain. June 2012: 123-130.
- Sechrist, Michael, Chintan Vaishnav, Daniel Goldsmith, and Nazli Choucri. “The Dynamics of Undersea Cables: Can the Old Modes of Governance Cope with New Demands of the Cyberspace?” *Proceedings of the 30th International Conference of the System Dynamics Society*, eds., Elke Husemann and David Lane. St. Gallen, Switzerland. July 22 – 26, 2012 .

- Sowell, Jesse H. "Mixed Context and Privacy." *Proceedings of the 38th Research Conference on Communication, Information and Internet Policy*, Telecommunications Policy Research Consortium, Farnham, VA. October 2010.
- Sowell, Jesse H. "Empirical Studies of Bottom-up Internet Governance." *Proceedings of the 40th Research Conference on Communication, Information and Internet Policy*. Telecommunications Policy Research Consortium, Arlington, VA. September 21–23, 2012.

## ONLINE EDITORIALS

- Branscomb, Lewis and Ryan Ellis. "Dangerous Cargo: Action Needed on Hazardous Materials." *Power & Policy Blog*, June 13, 2013.  
<http://www.powerandpolicy.com/2013/06/13/dangerous-cargo-action-needed-on-hazardous-materials/#more-2413>.
- Ellis, Ryan. "Protecting US Critical Infrastructure: One Step Forward for Cybersecurity, One Back?" *Technology+Policy | Innovation@Work*, July 24, 2013  
<http://www.technologyandpolicy.org/2013/07/24/protecting-us-critical-infrastructure-one-step-forward-for-cybersecurity-one-back/#.Uflkx9Lijh6>.
- Ellis, Ryan. "Cyber Security." Defense and Intelligence Projects Podcast. Science, Technology, and Public Policy Program, Belfer Center for Science and International Affairs, Harvard Kennedy School, March 5, 2013.  
<http://belfercenter.ksg.harvard.edu/files/uploads/audio/Defense/Ellis.mp3>.
- Kello, Lucas. "The Skeptics Misconstrue the Cyber Revolution: A Response to Commentators on ISSF/H-Diplo and Elsewhere." *H-Diplo/ISSF*, October 28, 2013  
<http://www.h-net.org/~diplo/ISSF/PDF/RE17.pdf>.
- Mohan, Vivek. "Privacy Consciousness in the Big Data Era." *Hive*, May 15, 2013  
<http://hivedata.com/privacy-consciousness-in-the-big-data-era/>.
- Mohan, Vivek. "Why the Government Matters: A Primer for Data-Minded Entrepreneurs." *Hive*, April 12, 2013  
<http://hivedata.com/why-the-government-matters-a-primer-for-data-minded-entrepreneurs/>.
- Mohan, Vivek. "Scaling the Great Firewall." *The Indian Express*, March 2013  
<http://www.indianexpress.com/news/scaling-the-great-firewall/1084749/0>.

- Mohan, Vivek. "Nothing to See Here." *The Indian Express*, December 2012  
<http://www.indianexpress.com/news/nothing-to-see-here/1041463/0>.
- Odumosu, Tolu. "Technological Somnambulism Revisited: Sleeping through the New Invisible Surveillance Technologies." *Vignettes@STS.Next.20*, December 31, 2012  
<http://stsnext20.org/vignettes/2012/12/31/technological-somnambulism-revisited-sleeping-through-the-new-invisible-surveillance-technologies/>.
- Tumin, Zachary and William Bratton. "Viral By Design: Teams in the Networked World." *Harvard Business Review*, April 2, 2012. <http://blogs.hbr.org/2012/04/viral-by-design-teams-in-the-n/>.
- Tumin, Zachary. "Running Al Qaeda." *Reuters Magazine*, June 2012  
<http://blogs.reuters.com/great-debate/2012/06/27/running-al-qaeda/>.

## THESES AND DISSERTATIONS

- Capen Low, Harold W. *Story Understanding in Genesis: Exploring Automatic Plot Construction through Commonsense Reasoning*. MS thesis, MIT (2011): Cambridge, MA.
- Fay, Matthew P. *Enabling Imagination through Story Alignment*. MS Thesis, MIT (2012): Cambridge, MA.
- Krakauer, Caryn. *Story Retrieval and Comparison Using Concept Patterns*. MS thesis (2012): Cambridge, MA.
- Nackoul, David. *Text to Text: Plot Unit Searches Generated from English*. MS thesis, MIT(2010): Cambridge, MA
- Sewell, Jesse Horton. *Finding Order in a Contentious Internet* PhD thesis MIT, 2015