Explorations in Cyber International Relations

Massachusetts Institute of Technology   Harvard University

Results:
Publications, Reports, Theses
Addendum to ECIR Final Report

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Statistical Profile of ECIR Project Results

Summary of scholarly works completed under *Explorations in International Relations* Program listed by lead institution.

Type	Harvard University	MIT	Grand Total
Program Website		1	1
Final Report		1	1
Workshop Reports		7	7
Books	1	3	4
Book Chapters	4	3	7
Theses		11	11
Journal Articles	15	15	30
Working Papers	15	27	42
Online Articles	22	1	23
Conference Proceedings	3	32	35
Poster Sessions	1	14	15
Total	**61**	**115**	**176**

List of Scholarly Work

List of scholarly works by scholars at MIT and Harvard University completed under *Explorations in International Relations* Program (2009–2014). Research for publications dated   2015-2020 done during the project duration.

Program Website (1)

1. Choucri, N. (2020, September 21). Exploration in Cyber International Relations (ECIR) (Website). Massachusetts Institute of Technology. https://ecir.mit.edu

Final Report (1)

1. Choucri, N. (2015). *Explorations in International Relations* (Final Program Report ver. 1.2). MIT Political Science Department. https://hdl.handle.net/1721.1/141624

Workshop Reports (7)

1. Choucri, N. (2014). *Proceedings of the ECIR Workshop on "Cyber Security & the Governance Gap: Complexity, Contention, Cooperation," January 6–7, 2014, MIT, Cambridge, MA*. MIT Political Science Department. https://hdl.handle.net/1721.1/141623

2. Deibert, R., Hurwitz, R. & Nye-Jr., J. S., (2014). *Proceedings of the Cyber Norms Workshop 2014, April 7–8, 2014, MIT, Cambridge, MA*. https://citizenlab.ca/cybernorms2014/

3. Choucri, N. (2012). *Proceedings of the ECIR Workshop on "Who Controls Cyberspace? A Puzzle for National Security and International Relations," November 6–7, 2012, MIT, Cambridge, MA*. MIT Political Science Department. https://hdl.handle.net/1721.1/141622

4. Deibert, R., Hurwitz, R. & Nye-Jr., J. S., (2012). *Proceedings of the Cyber Norms Workshop 2012, September 12–14, 2012, MIT, Cambridge, MA*. https://citizenlab.ca/cybernorms2012/

5. Choucri, N. (2011). *Proceedings of the ECIR Workshop on "People, Power and CyberPolitics," December 7–8, 2011, MIT, Cambridge, MA*. MIT Political Science Department. https://hdl.handle.net/1721.1/141621

6. Hurwitz, R. & Nye-Jr., J. S., (2011). *Proceedings of the Cyber Norms Workshop 2011, October 19–21, 2011, MIT, Cambridge, MA*. https://citizenlab.ca/cybernorms2011/

7. Choucri, N. (2010). *Proceedings of the ECIR Workshop on "Cyber International Relations: Emergent Realities of Conflict and Cooperation," October 13–14, 2010, MIT, Cambridge, MA*. MIT Political Science Department. https://hdl.handle.net/1721.1/141620.2

Books (4)

1. Choucri, N., & Clark, D. D. (2019). *International relations in the cyber age: The co-evolution dilemma*. MIT Press. https://mitpress.mit.edu/books/international-relations-cyber-age

2. Clark, D. D. (2018). *Designing an Internet*. MIT Press. https://mitpress.mit.edu/books/designing-internet

3. Choucri, N. (2012). *Cyberpolitics in international relations*. MIT Press. https://mitpress.mit.edu/books/cyberpolitics-international-relations

4. Clarke, R. A., & Knake, R. (2010). *Cyber war: The next threat to national security and what to do about it*. Harper Collins. https://www.harpercollins.com/products/cyber-war-richard-a-clarkerobert-knake?variant=32123019132962

Book Chapters (7)

1. Choucri, N. (2016). Emerging trends in cyberspace: Dimensions and dilemmas. In P. Williams, & D. Fiddner (Eds.), *Cyberspace: Malevolent actors, criminal opportunities, and strategic competition* (pp. 53–74). U.S. Army War College Press. https://publications.armywarcollege.edu/pubs/2388.pdf

2. Choucri, N. (2014). Cyberpolitics. In J. Krieger (Ed.), *The Oxford companion to international relations* (pp 267–271). Oxford University Press. https://global.oup.com/academic/product/the-oxford-companion-to-international-relations-9780199738878?cc=in&lang=en&

3. Kello, L. (2014). Security. In J. Krieger (Ed.), *The Oxford companion to international relations*. Oxford University Press. https://global.oup.com/academic/product/the-oxford-companion-to-international-relations-9780199738878?cc=in&lang=en&

4. Hurwitz, R. (2013). A new normal? The cultivation of global norms as part of a cyber security strategy. In P. A. Yannakogeorgos, & A. Lowther (Eds.), *Conflict and cooperation in cyberspace: The challenge to national security* (pp. 233–264). CRC Press. https://doi.org/10.1201/b15253

5. Hathaway, M. E. (2012). Falling prey to cybercrime: Implications for business and the economy. In R. N. Burns, J. Price, J. S. Nye Jr., B. Scowcroft (Eds.), *Securing cyberspace: A new domain for national security*. Aspen Institute. https://www.belfercenter.org/publication/falling-prey-cybercrime-implications-business-and-economy

6. Hathaway, M. E., & Klimburg, A. (2012). Preliminary considerations: On national cyber security. In A. Klimburg (Ed.), *National cyber security framework manual* (pp. 1–43). NATO Cooperative Cyber Defense Center of Excellence. https://www.belfercenter.org/publication/preliminary-considerations-national-cyber-security

7. Nye Jr., J. S. (2011). Soft power. In J. S. Nye Jr., *The future of power* (pp. 81–109). PublicAffairs. https://www.publicaffairsbooks.com/titles/joseph-s-nye/the-future-of-power/9781586488925/

Theses (11)

1. Sowell, J. H. (2015). *Finding order in a contentious Internet* [Ph. D thesis, Engineering Systems Division]. Massachusetts Institute of Technology. https://dspace.mit.edu/handle/1721.1/97324

2. Salim, H. M. (2014). *Cyber safety: A systems thinking and systems theory approach to managing cyber security risks* [S.M. thesis, System Design and Management Program]. Massachusetts Institute of Technology. https://dspace.mit.edu/handle/1721.1/90804

3. Cho, Y. (2012). *Strategic philanthropy for cyber security: An extended cost-benefit analysis framework to study cybersecurity* [S.M. thesis, Engineering Systems Division]. Massachusetts Institute of Technology. https://dspace.mit.edu/handle/1721.1/72880

4. Fay, M. P. (2012). *Enabling imagination through story alignment* [S.M. thesis, Dept. of Electrical Engineering and Computer Science]. Massachusetts Institute of Technology. https://dspace.mit.edu/handle/1721.1/71281

5. Finlayson, M. (2012). *Learning narrative structure from annotated folktales* [Ph. D thesis, Dept. of Electrical Engineering and Computer Science]. Massachusetts Institute of Technology. https://dspace.mit.edu/handle/1721.1/71284

6. Krakauer, C. E. (2012). *Story retrieval and comparison using concept patterns* [M. Eng. thesis, Dept. of Electrical Engineering and Computer Science]. Massachusetts Institute of Technology. https://dspace.mit.edu/handle/1721.1/77438

7. Wolff, J. C. P. (2012). *Unraveling internet identities: Accountability & anonymity at the application layer* [Ph. D thesis, Engineering Systems Division]. Massachusetts Institute of Technology. https://dspace.mit.edu/handle/1721.1/72901

8. Low, H. W. C.-IV. (2011). *Story understanding in Genesis: Exploring automatic plot construction through commonsense reasoning* [M. Eng. thesis, Dept. of Electrical Engineering and Computer Science]. Massachusetts Institute of Technology. https://dspace.mit.edu/handle/1721.1/66440

9. Agarwal, G. (2010). *A matrix based integrated framework for multi disciplinary exploration of cyber-international relations* [S.M. thesis, System Design and Management Program]. Massachusetts Institute of Technology. https://dspace.mit.edu/handle/1721.1/63241

10. Camiña, S. (2010). *A comparison of taxonomy generation techniques using bibliometric methods: Applied to research strategy formulation* [M. Eng. thesis, Dept. of Electrical Engineering and Computer Science]. Massachusetts Institute of Technology. https://dspace.mit.edu/handle/1721.1/62632

11. Nackoul, D. D. (2010). *Text to Text: plot unit searches generated from English* [M. Eng. thesis, Dept. of Electrical Engineering and Computer Science]. Massachusetts Institute of Technology. https://dspace.mit.edu/handle/1721.1/61175

Journal Articles (30)

1. Chen, J., & Micali, S. (2016). Leveraging possibilistic beliefs in unrestricted combinatorial auctions. *Games, 7(*4), 32–50. https://doi.org/10.3390/g7040032

2. Choucri, N. (2016). Introduction. *H-Diplo | ISSF Roundtable Reviews, XI*(7), 2–3. https://issforum.org/ISSF/PDF/ISSF-Roundtable-9-7.pdf

3. Ramirez, R., & Choucri, N. (2016). Improving interdisciplinary communication with standardized cyber security terminology: A literature review. *IEEE Access, 4*, 2216–2243. https://doi.org/10.1109/ACCESS.2016.2544381

4. Chen, J., Micali, S., & Pass, R. (2015). Tight revenue bounds with possibilistic beliefs and level-*k* rationality. *Econometrica, 83*(4), 1619–1639. https://doi.org/10.3982/ECTA12563

5. Choucri, N., Madnick, S., & Ferwerda, J. (2014). Institutions for cyber security: International responses and global imperatives. *Information Technology for Development, 20*(2), 96–121. https://doi.org/10.1080/02681102.2013.836699

6. Ellis, R. (2014). Regulating cybersecurity: Institutional learning or a lesson in futility? *IEEE Security & Privacy, 12(*6), 48–54. https://doi.org/10.1109/MSP.2014.124

7. Chen, J., & Micali, S. (2013). The order independence of iterated dominance in extensive games. *Theoretical Economics, 8*(1), 125–163. https://doi.org/10.3982/TE942

8. Choucri, N. (2013). Cyberpolitics in international relations. *précis, Spring 2013*, 6–10, & 28. https://cis.mit.edu/sites/default/files/documents/Precis_spring_2013.pdf

9. Choucri, N., & Clark, D. D. (2013). Who controls cyberspace? *Bulletin of the Atomic Scientists, 69*(5), 21–31. https://journals.sagepub.com/doi/full/10.1177/0096340213501370

10. Kello, L. (2013). The meaning of the cyber revolution: Perils to theory and statecraft. *International Security, 38*(2), 7–40. https://doi.org/10.1162/ISEC_a_00138

11. Kello, L. (2013). The skeptics misconstrue the cyber revolution (response to Essay 17). *H-Diplo/ISSF*. https://issforum.org/ISSF/PDF/RE17-Kello.pdf

12. Vaishnav, C., Choucri, N., & Clark, D. D. (2013). Cyber international relations as an integrated system. *Environment Systems & Decisions, 33*(4), 561–576. http://dx.doi.org/10.1007/s10669-013-9480-3

13. Chen, J., & Micali, S. (2012). Collusive dominant-strategy truthfulness. *Journal of Economic Theory, 147*(3), 1300–1312. https://doi.org/10.1016/j.jet.2012.01.021

14. Choucri, N., & Goldsmith, D. (2012). Lost in cyberspace: Harnessing the Internet, international relations, and global security. *Bulletin of the Atomic Scientists, 68*(2), 70–77. https://journals.sagepub.com/doi/full/10.1177/0096340212438696

15. Hathaway, M. E. (2012). Internet service providers are the front line of cyber-defence. *Europe'sWorld*, 49–50. https://www.belfercenter.org/publication/internet-service-providers-are-front-line-cyber-defence

16. Hathaway, M. E. (2012). Leadership and responsibility for cybersecurity. *Georgetown Journal of International Affairs,* 71–80. https://www.jstor.org/stable/43134340

17. Hill, J. F. (2012). A Balkanized Internet?: The uncertain future of global Internet standards. *Georgetown Journal of International Affairs*, 49–58. http://www.jstor.org/stable/43134338

18. Hurwitz, R. (2012). Depleted trust in the cyber commons. *Strategic Studies Quarterly*, *6*(3), 20–45. https://www.jstor.org/stable/26267260

19. Mohan, V., & Willasenor, J. (2012). Decrypting the fifth amendment: The limits of self-incrimination in the digital era. University of Pennsylvania Journal of Constitutional Law

Heightened Scrutiny, 15, 11–28.
https://scholarship.law.upenn.edu/jcl_online/vol15/iss1/2

20. Nye Jr., J. S. (2012). The twenty-first century will not be a "post-American" world. *International Studies Quarterly, 56(*1), 215–217. http://www.jstor.org/stable/41409833

21. Winston, P. H. (2012). The next 50 years: A personal view. *Biologically Inspired Cognitive Architectures, 1* (July 2012), 92–99. https://doi.org/10.1016/j.bica.2012.03.002

22. Winston, P. H. (2012). The right way. *Advances in Cognitive Systems, 1*, 23–36. http://www.cogsys.org/journal/volume1/article-1-4.pdf

23. Clark, D. D. (2011). Introduction. *Daedalus, 140*(4), 5–16. https://doi.org/10.1162/DAED_a_00111

24. Hathaway, M. E. (2011). Creating the demand curve for cybersecurity. *Georgetown Journal of International Affairs*, 163–170. https://www.jstor.org/stable/43133825

25. Nye Jr., J. S. (2011). Nuclear lessons for cyber security? *Strategic Studies Quarterly, 5*(4), 18–38. http://nrs.harvard.edu/urn-3:HUL.InstRepos:8052146

26. Nye Jr., J. S., & Goldsmith, J. L. (2011). The future of power. *Bulletin of the American Academy of Arts and Sciences, lxiv*(3), 45–52. https://www.amacad.org/sites/default/files/bulletin/downloads/spring11.pdf

27. Odumosu, T., & Narayanamurti, V. (2011). Towards a common wireless market: Why the FCC should promote a single interoperable technological market for mobile devices. *Issues in Science and Technology, 28*(2), 23–25. https://issues.org/p_odumosu/

28. Hathaway, M. E. (2010). Power hackers. *Scientific American, 303*(4), 16–17. https://www.jstor.org/stable/26002191

29. Zittrain, J. (2010). The fourth quadrant. *Fordham Law Review, 78*(6), 2767–2782. https://ir.lawnet.fordham.edu/flr/vol78/iss6/3

30. Clarke, R. (2009). War from cyberspace. *National Interest, 104*, 31–36. https://www.belfercenter.org/publication/war-cyberspace

Working Papers (42)

1. Micali, S. (n.d). *Fair electronic exchange with virtual trusted parties* (ECIR Working Paper No. n.d.-1). MIT Political Science Department. https://hdl.handle.net/1721.1/141697

2. Choucri, N., & Agarwal, G. (2016). *The theory of lateral pressure highlights of quantification & empirical analysis* (ECIR Working Paper No. 2016-2). MIT Political Science Department. https://dspace.mit.edu/handle/1721.1/105890

3. Choucri, N., & Jackson, C. (Eds.). (2015). *Perspectives on cybersecurity: A collaborative study* (ECIR Working Paper No. 2015-1). MIT Political Science Department. https://hdl.handle.net/1721.1/141758

4. Chen, J., Micali, S., & Pass, R. (2014). *Possibilistic beliefs and higher-level rationality* (ECIR Working Paper No. 2014-1). MIT Political Science Department. https://dspace.mit.edu/handle/1721.1/141763

5. Gamero-Garrido, A. (2014). *Cyber conflicts in international relations: Framework and case studies* (ECIR Working Paper No. 2014-2). MIT Political Science Department. https://hdl.handle.net/1721.1/141695

6. Testart, C. (2014). *Understanding ICANN's complexity in a growing and changing Internet* (ECIR Working Paper No. 2014-3). MIT Political Science Department. https://hdl.handle.net/1721.1/141699

7. Micali, S., Choucri, N., Chen, J., & Williams, C. (2013). *Resilient mechanism design foundations for governance of cyberspace: Exploration in theory, strategy, and policy* (ECIR Working Paper No. 2013-2). MIT Political Science Department. https://hdl.handle.net/1721.1/141755

8. Narayanamurti, V., Odumosu, T., & Vinsel, L. (2013). *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. https://www.belfercenter.org/publication/discovery-invention-cycle-bridging-basicapplied-dichotomy

9. Rady, M. (2013). *Anonymity networks: New platforms for conflict and contention* (ECIR Working Paper No. 2013-2). MIT Political Science Department. https://hdl.handle.net/1721.1/141698

10. Belk, R., & Matthew, N. (2012). *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.

https://www.belfercenter.org/publication/use-offensive-cyber-capabilities-policy-analysis-offensive-us-cyber-policy

11. Chiesa, A., Micali, S., & Zhu, Z. A. (2012). *Knightian auctions* (ECIR Working Paper No. 2012-1). MIT Political Science Department. https://hdl.handle.net/1721.1/141764

12. Cho, Y. (2012). *Lessons for cyber security international cooperatio*n (ECIR Working Paper No. 2012-5). MIT Political Science Department.

13. Choucri, N., & Clark, D. D. (2012). *Integrating cyberspace and international relations: The co-evolution dilemma* (ECIR Working Paper No. 2012-3). MIT Political Science Department. https://hdl.handle.net/1721.1/141757

14. Choucri, N., Elbait, G. D., Madnick, S. E. (2012). *What is cybersecurity? Explorations in automated knowledge generation* (ECIR Working Paper No. 2012-4). MIT Political Science Department. https://hdl.handle.net/1721.1/141765

15. Goldsmith, D., & Siegal, M. (2012). *Systematic approaches to cyber insecurity* (ECIR Working Paper No. 2012-5). MIT Political Science Department. https://hdl.handle.net/1721.1/141759

16. Hathaway, M. E., & Savage, J. E. (2012). *Duties for Internet service providers* (Paper). Munk School of Global Affairs, University of Toronto. https://www.belfercenter.org/publication/duties-internet-service-providers

17. Hill, J. F. (2012). *Internet fragmentation: Highlighting the major technical, governance and diplomatic challenges for US policy makers* (Paper). Science, Technology, and Public Policy Program, Belfer Center for Science and International Affairs, Harvard Kennedy School. https://www.belfercenter.org/publication/internet-fragmentation-highlighting-major-technical-governance-and-diplomatic

18. Hung, S. (2012). *The Chinese Internet: Control through the layer*s (ECIR Working Paper No. 2012-2). MIT Political Science Department. https://hdl.handle.net/1721.1/141696

19. Mohan, V. (2012). *Cloud and mobile privacy: The Electronic Communications Privacy Act* (Discussion Paper, 2012-02). Science, Technology, and Public Policy Program, Belfer Center for Science and International Affairs, Harvard Kennedy School. https://www.belfercenter.org/publication/cloud-and-mobile-privacy-electronic-communications-privacy-act

20. Sechrist, M. (2012). *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.

https://www.belfercenter.org/publication/new-threats-old-technology-vulnerabilities-undersea-communication-cable-network

21. Camiña, S., Madnick, S., Choucri, N., & Woon, W. L. (2011). *Exploring terms and taxonomies relating to the cyber international relations research field: Or are "cyberspace" and "cyber space" the same?* (ECIR Working Paper No. 2011-3). MIT Political Science Department. https://hdl.handle.net/1721.1/141754

22. Clark, D. D. (2011). *Three views of cyberspace* (ECIR Working Paper No. 2011-1). MIT Political Science Department. https://hdl.handle.net/1721.1/141694

23. Hathaway, M. E. (2011). *Taking a byte out of cybercrime* (Paper). Science, Technology, and Public Policy Program, Belfer Center for Science and International Affairs, Harvard Kennedy School. https://www.belfercenter.org/sites/default/files/files/publication/byte-out-of-cybercrime-hathaway-oct-2011.pdf

24. Maurer, T. (2011). *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. https://www.belfercenter.org/publication/cyber-norm-emergence-united-nations-analysis-uns-activities-regarding-cyber-security

25. Maurer, T. (2011). *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. https://www.belfercenter.org/publication/wikileaks-2010-glimpse-future

26. Williams, C. (2011). *Applications of ECIR modeling work to cyber policy problems* (ECIR Working Paper No. 2011-2). MIT Political Science Department. https://hdl.handle.net/1721.1/141700

27. Amin, R. (2010). *Controlling behavior - not arms: Moving forward on an international convention for cyberspace* (Paper). Belfer Center for Science and International Affairs, Harvard Kennedy School. https://www.belfercenter.org/publication/controlling-behavior-not-arms-moving-forward-international-convention-cyberspace

28. Chen, J., Hassidim, A., & Micali, S. (2010). *Resilient and virtually perfect revenue from perfectly informed players* (ECIR Working Paper No. 2010-1). MIT Political Science Department. https://hdl.handle.net/1721.1/141762

29. Clark, D. D. (2010). *Characterizing cyberspace: Past, present and future* (ECIR Working Paper No. 2010-3). MIT Political Science Department. https://hdl.handle.net/1721.1/141692

30. Clark, D. D. (2010). *Tools of engagement: Mapping the tussles in cyberspace* (ECIR Working Paper No. 2010-4). MIT Political Science Department. https://hdl.handle.net/1721.1/141693

31. Goldsmith, D., & Siegal, M. (2010). *Understanding cyber complexity: Systems modeling and the financial services sector* (ECIR Working Paper No. 2010-2). MIT Political Science Department. https://hdl.handle.net/1721.1/141760

32. Goldsmith, J. (2010). *Cyberthreat, government network operations, and the fourth amendment*. Government Studies at The Brookings Institute. https://www.brookings.edu/wp-content/uploads/2016/06/1208_4th_amendment_goldsmith.pdf

33. Nye Jr., J. S. (2010). *Cyber power* (Paper). Belfer Center for Science and International Affairs, Harvard Kennedy School. https://www.belfercenter.org/publication/cyber-power

34. Peritz, A., & Sechrist, M. (2010). *Protecting cyberspace and the U.S. national interest* (Discussion Paper). Belfer Center for Science and International Affairs, Harvard Kennedy School. https://www.belfercenter.org/publication/protecting-cyberspace-and-us-national-interest

35. Sechrist, M. (2010). *Cyberspace in deep water: Protecting undersea communication cables by creating an international public-private partnership*. Belfer Center for Science and International Affairs, Harvard Kennedy School. https://www.belfercenter.org/publication/cyberspace-deep-water-protecting-undersea-communications-cables-creating-international

36. Siegal, M., & Goldsmith, D. (2010). *Simulation modeling for cyber resilience* (ECIR Working Paper No. 2010-5). MIT Political Science Department. https://hdl.handle.net/1721.1/141761

37. Anderson, E., Choucri, N., Goldsmith D., Madnick, S. E., Siegel, M., & Sturtevant, D. (2009). *System dynamics modeling for pro-active intelligence* (ECIR Working Paper No. 2009-4). MIT Political Science Department. https://hdl.handle.net/1721.1/141749

38. Chen, J., & Micali, S. (2009). *Rational robustness for mechanism design* (ECIR Working Paper No. 2009-5, first draft). MIT Political Science Department. https://hdl.handle.net/1721.1/141756

39. Clark, D. D. (2009). *The expressive power of the Internet design* (ECIR Working Paper No. 2009-1). MIT Political Science Department. https://hdl.handle.net/1721.1/141690

40. Clark, D. D. (2009). *Toward the design of a future Internet* (ECIR Working Paper No. 2009-3). MIT Political Science Department. https://hdl.handle.net/1721.1/141691

41. Hathaway, M. E. (2009). *Strategic advantage: Why America should care about cybersecurity* (Discussion Paper, 2009-12). Belfer Center for Science and International Affairs, Harvard Kennedy School. https://www.belfercenter.org/publication/strategic-advantage-why-america-should-care-about-cybersecurity

42. Madnick, S., Choucri, N., Camiña, S., Fogg, E., Li, X., & Wei, F. (2009). *Explorations in cyber international relations (ECIR)—data dashboard report #1: CERT data sources and prototype dashboard system* (ECIR Working Paper No. 2009-2). MIT Political Science Department. https://hdl.handle.net/1721.1/141750

Online Articles (23)

1. Branscomb, L., and Ryan E. (2013, June 13). Dangerous Cargo: Action Needed on Hazardous Materials. *Power & Policy Blog*. Belfer Center for Science and International Affairs, Harvard Kennedy School. https://www.belfercenter.org/publication/dangerous-cargo-action-needed-hazardous-materials

2. Ellis, R. (2013, July 24). Protecting US critical infrastructure: One step forward for cybersecurity, one back? *Technology+Policy*. https://www.belfercenter.org/publication/protecting-us-critical-infrastructure-one-step-forward-cybersecurity-one-back

3. Ellis, R. (2013, March 13). *Cyber Security: Defense and intelligence* [Projects Podcast]. Defense and Intelligence Projects, Science, Technology, and Public Policy Program. Belfer Center for Science and International Affairs, Harvard Kennedy School. https://www.belfercenter.org/node/89295

4. Mohan, V. (2013, April 12). Why the government matters: A primer for data-minded entrepreneurs. *Hive*. https://www.belfercenter.org/publication/why-government-matters-primer-data-minded-entrepreneurs-0

5. Mohan, V. (2013, March 8). Scaling the great firewall. *The Indian Express*. https://indianexpress.com/article/opinion/columns/scaling-the-great-firewall/

6. Mohan, V. (2013, May 15). Privacy consciousness in the big data era. *Hive*. https://www.belfercenter.org/publication/privacy-consciousness-big-data-era

7. Smith, J. F. (2013, Summer). Confronting complex cybersecurity challenges. *Belfer Center Newsletter, Belfer Center for Science and International Affairs, Harvard Kennedy School*. https://www.belfercenter.org/publication/confronting-complex-cybersecurity-challenges

8. Choucri, N. (2012, April 20). The convergence of cyberspace and sustainability. *e-International Relations*. https://www.e-ir.info/2012/04/20/the-convergence-of-cyberspace-and-sustainability/

9. Mohan, V. (2012, December 7). Nothing to see here. *The Indian Express*. http://archive.indianexpress.com/news/nothing-to-see-here/1041463/

10. Nye Jr., J. S. (2012, April 10). Cyber war and peace. *Project Syndicate*. https://www.project-syndicate.org/commentary/cyber-war-and-peace-2012-04

11. Odumosu, T. (2012, December 31). Technological somnambulism revisited: Sleeping through the new invisible surveillance technologies. *Vignettes @ STS.Next.20*. http://stsnext20.org/vignettes/2012/12/31/technological-somnambulism-revisited-sleeping-through-the-new-invisible-surveillance-technologies/

12. Tumin, Z. (2012, June 27). Running Al Qaeda. *Reuters Magazine*. https://www.reuters.com/article/idUS222680074720120627

13. Tumin, Z. & William B. (2012, April 12). Viral by design: Teams in the networked world. *Harvard Business Review*. https://hbr.org/2012/04/viral-by-design-teams-in-the-n

14. Clarke R. (2011, June 15). China's cyberassault on America. *The Wall Street Journal.* https://www.wsj.com/articles/SB10001424052702304259304576373391101828876

15. Clarke, R. (2011, July 31). The coming cyber wars: Obama's cyber strategy is missing the strategy. *The Boston Globe*. http://archive.boston.com/bostonglobe/editorial_opinion/oped/articles/2011/07/31/the_coming_cyber_wars/

16. Hathaway, M. E. (2011, January 14). Regulators can help Obama secure IT. *inforisk Today*. https://www.inforisktoday.com/regulators-help-obama-secure-it-a-3264

17. Hathaway, M. E. (2011, November). NATO and the EU in cyberspace: The power of both for the good of all. *Security Europe*. https://www.belfercenter.org/publication/nato-and-eu-cyberspace-power-both-good-all

18. Hathaway, M. E. (2011, September 18). Dim prospects for cybersecurity law in 2011. *GovInfoSecurity.com*. http://www.govinfosecurity.com/articles.php?art_id=4100&opg=1

19. Nye Jr., J. S. (2011, February 27). Cyberspace wars. *The New York Times*. https://www.nytimes.com/2011/02/28/opinion/28iht-edNye Jr.28.html

20. Nye Jr., J. S. (2011, February 9). Power and information in Egypt - and beyond. *Huffpost*. https://www.huffpost.com/entry/power-and-information-in_b_820969

21. Zittrain, J. (2011, March 1). Freedom and anonymity: Keeping the Internet open. *Scientific American Magazine*. https://www.scientificamerican.com/article/freedom-and-anonymity/

22. Zittrain, J. (2010, December 2). An impenetrable web of fees (part of Who gets priority on the web?). *The New York Times*. https://www.nytimes.com/roomfordebate/2010/08/09/who-gets-priority-on-the-web/an-impenetrable-web-of-fees

23. Zittrain, J., & Sauter, M. (2010, December 9). Everything you need to know about Wikileaks. *Technology Review*. https://www.technologyreview.com/2010/12/09/120156/everything-you-need-to-know-about-wikileaks/

Conference Proceedings (35)

1. Basuchoudhary, A., & Choucri, N. (2014). The evolution of network based cybersecurity norms: An analytical narrative. *Proceedings of the 2014 IEEE 15th International Conference on Information Reuse and Integration (IEEE IRI 2014)*, 646–653. https://doi.org/10.1109/IRI.2014.7051951

2. Houghton, J., Siegel, M., Wirsch, A., Moulton, A., Madnick, S., & Goldsmith, D. (2014). A survey of methods for data inclusion in system dynamics models: Methods, tools and applications. In Pål Davidsen, & Etiënne A. J. A. Rouwette (Eds.), P*roceedings of the 32nd International Conference of the System Dynamics Society*. System Dynamics Society. https://proceedings.systemdynamics.org/2014/proceed/proceed.pdf

3. Abbassi, P., Kaul, M., Mohan, V., Shen, Y., and Winkelman, Z. (2013). *Securing the net: Global governance in the digital domain* (Report for Global Governance 2022). https://www.ggfutures.net/uploads/attachments/GG2022_Cyber_Report_web.pdf

4. Choucri, N. (2013, October 13–15). *Co-evolution of cyberspace and international relations: New challenges for the social sciences* [Conference session]. World Social Science Forum (WSSF) 2013 Montreal, Canada. https://hdl.handle.net/1721.1/141686

5. Houghton, J., Siegel, M., & Goldsmith, D. (2013). Modeling the influence of narratives on collective behavior. In R. Eberlein, & I. J. Martínez-Moyano (Eds.), *Proceedings of the 31st International Conference of the System Dynamics Society*. System Dynamics Society. https://test1.systemdynamics.org/wp-content/uploads/assets/proceedings/2013/proceed/proceed.pdf

6. Wolff, J., Young, W. E., & Smith, E. (2013). Cyber 9/12 student challenge (Policy Brief). *Atlantic Council's Cyber Statecraft Initiative, Washington, D.C.* https://hdl.handle.net/1721.1/141775

7. Azar, P. D., & Micali, S. (2012). Rational proofs. *Proceedings of the Forty-Fourth Annual ACM Symposium on Theory of Computing (STOC '12)*, 1017–1028. https://doi.org/10.1145/2213977.2214069

8. Clark, D. D. (2012). Control point analysis. *Proceedings of 2012 TRPC Conference*. http://dx.doi.org/10.2139/ssrn.2032124

9. Finlayson, M. A. (2012). Sets of signals, information flow, and folktales. *Proceedings of the 8th Turing Centenary conference on Computability in Europe: How The World Computes (CiE'12)*, 228–236. Springer-Verlag. https://doi.org/10.1007/978-3-642-30870-3_23

10. Goldsmith, D., & Siegel, M. (2012) Cyber politics: Understanding the use of social media for dissident movements in an integrated state stability framework. *Proceedings of the 2012 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining*, 1321–1328. https://doi.org/10.1109/ASONAM.2012.227

11. Hurwitz, R. (2012). Taking care: Four takes on the cyber steward. *Proceedings of the CyberDialogue 2012: What is Stewardship in Cyberspace?* https://cyberdialogue.ca/previous-dialogues/2012-about/papers/ https://cyberdialogue.ca/wp-content/uploads/2012/2012papers/CyberDialogue2012_hurwitz.pdf

12. Hurwitz, R. (2012). *The Budapest Conference on Cyberspace 2012, October 3–5, 2012* (Conference trip report). MIT Political Science Department.

13. Kello, L. (2012, May 3). *Cyber disorders: Rivalry & conflict in a global information age* [Conference presentation]. Science, Technology, and Public Policy Program, Belfer Center for Science and International Affairs, Harvard Kennedy School. https://www.belfercenter.org/publication/cyber-disorders-rivalry-and-conflict-global-information-age

14. Krakauer, C. E., & Winston, P. H. (2012). Story retrieval and comparison using concept patterns. *Proceedings of the 3rd International Workshop on Computational Models of Narrative (CMN'12), Turkey*, 119–124. http://narrative.csail.mit.edu/cmn12/proceedings.pdf

15. Madnick, S., Camiña, S., Choucri, N., & Woon, W. L. (2012). Towards better understanding cybersecurity: Or are "cyberspace" and "cyber space" the same?

Proceedings of the Workshop on Information Security & Privacy (WISP2012), 27. https://aisel.aisnet.org/wisp2012/27/

16. Reardon, R., & Choucri, N. (2012). The role of cyberspace in international relations: A view of the literature. *Proceedings of the 2012 ISA Annual Convention, San Diego, CA*. https://www.isanet.org/Conferences/San-Diego-2012

17. Sechrist, M., Vaishnav, C., Goldsmith, D., & Choucri, N. (2012). The dynamics of undersea cables: Emerging opportunities and pitfalls. In E. Husemann, & D. Lane (Eds.), *Proceedings of the 30th International Conference of the System Dynamics Society*. System Dynamics Society. https://proceedings.systemdynamics.org/2012/proceed/proceed.pdf

18. Shukla, A., & Hurwitz, R. (2012, April 1–4). *A framework for organizing national security strategies* [Paper presented to the panel]. Comparative Security Strategies at the International Studies Association Annual Meeting, San Diego, CA.

19. Sowell, J. H. (2012, June 4). *A view of top-down internet governance* [Conference presentation]. NANOG 55. Vancouver BC. https://youtu.be/f8n7Eam-FvA (video); https://archive.nanog.org/meetings/nanog55/presentations/Monday/Sowell.pdf (presentation slides)

20. Sowell, J. H. (2012). Empirical studies of bottom-up internet governance. *Proceedings of 2012 TRPC Conference*. http://dx.doi.org/10.2139/ssrn.2032285

21. Vaishnav, C., Choucri, N., & Clark, D. D. (2012). Cyber international relations as an integrated system. *Proceedings of the Third International Engineering Symposium (CESUN 2012), Delft University of Technology*. https://hdl.handle.net/1721.1/141774

22. Chen, J., & Micali, S. (2011). Mechanism design with set-theoretic beliefs. *Proceedings of the 2011 IEEE 52nd Annual Symposium on Foundations of Computer Science*, 87–96. https://doi.org/10.1109/FOCS.2011.11

23. Finlayson, M. A. (2011). Corpus annotation in service of intelligent narrative technologies. *Proceedings of the "Intelligent Narrative Technologies" Workshop at the Seventh Artificial Intelligence and Interactive Digital Entertainment Conference (AIIDE-11)*, 17–20. https://aaai.org/ocs/index.php/AIIDE/AIIDE11WS/paper/view/4092

24. Finlayson, M. A. (2011). The Story workbench: An extensible semi-automatic text annotation tool. Proceedings of the *"Intelligent Narrative Technologies" Workshop at the Seventh Artificial Intelligence and Interactive Digital Entertainment Conference (AIIDE-11)*, 21–24. https://aaai.org/ocs/index.php/AIIDE/AIIDE11WS/paper/view/4091

25. Hurwitz, R., & Winston, P. H. (2011). Computational representations of high profile international cyber incidents. *Proceedings of the 2011 ISA Annual Convention*. https://hdl.handle.net/1721.1/141721

26. Madnick, S., Choucri, N., Li, X., & Ferwerda, J. (2011). 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. https://dspace.mit.edu/handle/1721.1/141752

27. Mallery, J. C. (2011, November 29). *International data exchange and a trustworthy host: Focal areas for international collaboration in research and education* [Keynote address]. Digital Ecosystems Network and Information Security and How International Cooperation Can Provide Mutual Benefits, BIC Annual Forum, Radisson Blu Royal Hôtel, Brussels. https://hdl.handle.net/1721.1/141687

28. Mallery, J. C. (2011). Trustworthy cloud computing: Risks, challenges and recommendations. *2011 Workshop on Cyber Security and Global Affairs. Budapest, Hungary.*

29. Winston, P. H. (2011). The strong story hypothesis and the directed perception hypothesis. *Proceedings of the AAAI Fall Symposium Series*, 345–352. http://dx.doi.org/10.2139/ssrn.2032124

30. Clark, D. D., & Landau, S. (2010). The problem isn't attribution: It's multi-stage attacks. *Proceedings of the Re-Architecting the Internet Workshop (ReARCH '10), Article 11*, 1– 6. https://doi.org/10.1145/1921233.1921247

31. Clark, D. D., & Landau, S. (2010). Untangling attribution. In National Research Council, *Proceedings of a Workshop on Deterring Cyberattacks: Informing Strategies and Developing Options for U.S. Policy* (pp. 25–40). National Research Council. https://doi.org/10.17226/12997

32. Friedman, A., Moore, T., & Procaccia, A. D. (2010). Would a 'cyber warrior' protect us? Exploring trade-offs between attack and defense of information systems. *Proceedings of the 2010 New Security Paradigms Workshop* (pp. 85–94). Concord, MA. https://doi.org/10.1145/1900546.1900559

33. Hervás, R., & Finlayson, M. A. (2010). The prevalence of descriptive referring expressions in news and narrative. *Proceedings of the ACL 2010 Conference Short Papers*, 49–54. https://aclanthology.org/P10-2010

34. Sowell, J. H. (2010). Mixed context and privacy. *Proceedings of 2010 TRPC Conference*. https://ssrn.com/abstract=1989157

35. Madnick, S., Xitong, L., & Choucri, N. (2009). 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. https://hdl.handle.net/1721.1/141773

Poster Sessions (15)

1. Rady, M. (2014, January 6–7). *Design of action and alliance strategy in defense against anonymous cyber threats* [Poster session]. ECIR Workshop on "Cyber Security & the Governance Gap: Complexity, Contention, Cooperation," MIT, Cambridge, MA. https://hdl.handle.net/1721.1/141619

2. Clark, D. D., & Hung, S. (2012, November 6–7). *Diversity of user experience and alternative future internets* [Poster session]. ECIR Workshop on "Who Controls Cyberspace," MIT, Cambridge, MA. https://hdl.handle.net/1721.1/141613

3. Houghton, J. (2012, November 6–7). *When virtual issues become real world action*s [Poster session]. ECIR Workshop on "Who Controls Cyberspace," MIT, Cambridge, MA. https://hdl.handle.net/1721.1/141614

4. Rady, M. (2012, November 6–7). *Who controls anonymity? Control point analysis of the Onion routing anonymity network (TOR)* [Poster session]. ECIR Workshop on "Who Controls Cyberspace," MIT, Cambridge, MA. https://hdl.handle.net/1721.1/141615

5. Sechrist, M., Vaishnav, C., Goldsmith, D., & Choucri, N. (2012, November 6–7). *The dynamics of managing undersea cables: When solution becomes the problem* [Poster session]. ECIR Workshop on "Who Controls Cyberspace," MIT, Cambridge, MA. https://hdl.handle.net/1721.1/141618

6. Shukla, A. (2012, November 6–7). *Understanding "cyber conflict"* [Poster session]. ECIR Workshop on "Who Controls Cyberspace," MIT, Cambridge, MA. https://dspace.mit.edu/handle/1721.1/141488

7. William, E. Y.-Jr. (2012, November 6–7). *Cyber mission assurance using STPA* [Poster session]. ECIR Workshop on "Who Controls Cyberspace," MIT, Cambridge, MA. https://hdl.handle.net/1721.1/141616

8. Wolff, J. (2012, November 6–7). *Cyber defense resources & vulnerabilities* [Poster session]. ECIR Workshop on "Who Controls Cyberspace," MIT, Cambridge, MA. https://hdl.handle.net/1721.1/141617

9. Elbait, G. D. (2011, December 7–8). *Representing cyberspace using taxonomies and meta-data analysis* [Poster session]. ECIR Workshop on "People, Power, and CyberPolitics," MIT, Cambridge, MA. https://hdl.handle.net/1721.1/141606

10. Finlayson, M. A. (2011, December 7–8). *Learning legal principles to enable law at cyber speeds* [Poster session]. ECIR Workshop on "People, Power, and CyberPolitics," MIT, Cambridge, MA. https://hdl.handle.net/1721.1/141607

11. Fisher, D., Madnick, S., Choucri, N., Li, X., & Ferwerda, J. (2011, December 7–8). *Comparative analysis of cybersecurity metrics to develop new hypotheses* [Poster session]. ECIR Workshop on "People, Power, and CyberPolitics," MIT, Cambridge, MA. https://hdl.handle.net/1721.1/141608

12. Reardon, R. (2011, December 7–8). *Escalation management in cyber conflict: A research proposal* [Poster session]. ECIR Workshop on "People, Power, and CyberPolitics," MIT, Cambridge, MA. https://hdl.handle.net/1721.1/141609

13. Sechrist, M. P., Vaishnav, C., & Goldsmith, D. (2011, December 7–8). *The dynamics of managing undersea cables* [Poster session]. ECIR Workshop on "People, Power, and CyberPolitics," MIT, Cambridge, MA. https://hdl.handle.net/1721.1/141610

14. Sowell, J. (2011, December 7–8). *Finding order in a contentious Internet* [Poster session]. ECIR Workshop on "People, Power, and CyberPolitics," MIT, Cambridge, MA. https://hdl.handle.net/1721.1/141611

15. Vaishnav, C. (2011, December 7–8). *The Coordinates of cyber international relations* [Poster session]. ECIR Workshop on "People, Power, and CyberPolitics," MIT, Cambridge, MA. https://hdl.handle.net/1721.1/141612