

# The 42nd Research Conference on Communication, Information and Internet Policy

September 12-14, 2014

Hosted by George Mason University School of Law  
Arlington, VA

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## Thursday, September 11

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### Pre-Conference Session

#### 12:00 pm Capitol Hill Lunch and Learn

A luncheon presentation of timely material for Capitol Hill and other government agency staff. Limited space available. Indicate on your registration if you would like to be added to the list for attendance. We will notify you if space is available.

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## Friday, September 12

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8:30 am Graduate Student Consortium (by invitation)

#### 12:00 pm Registration

#### 2:00 pm Panel and Tutorial

### Wireless Grids Tutorial

Wireless Grids Edgware - a new category of 'cloud to edge' ad hoc network applications and services - has been under refinement for more than a decade following the first presentation on the topic to TPRC in 2002. A variety of proprietary and open/non-proprietary applications - called gridlets and wiglets, respectively - has been developed over the years and tested in experimental use by a wide variety of users.

This tutorial will provide hands-on use experiences and guest account access to a number of gridlets and wiglets, and among other things permit users to create their own social radios across their own social machines. The security implications of these novel ad hoc network services will be discussed, as will other regulatory implications of the apparent potential growth in machine to machine communication across the Internet of Things.

The ability of these novel applications to withstand 'worst case scenario' circumstances for social emergency response is a particularly compelling application, which can be provided widely at negligible cost, as this tutorial will demonstrate.

Several recent doctoral graduates and other partners in the National Science Foundation Partnerships for Innovation Wireless Grid Innovation Testbed (WiGiT)

may join the main presenter and share their insights garnered from empirical studies.

Presenter: Lee W. McKnight, Syracuse University  
iSchool

### 900 Questions: A Case Study of Multistakeholder Policy Advocacy Through the E-rate Lens

In July 2013, the Federal Communications Commission (FCC) turned the 16-year-old Federal E-rate program inside out and shook all the pieces into a Notice of Proposed Rulemaking to examine the program. The proceeding has drawn thousands of comments and negotiations from traditional and new or episodic participants. This panel will examine a range of issues related to the policy window for a beneficiary group that has historically made up a small part of a large Federal program and which is in the midst of a revolution beyond this proceeding—America's public libraries. The panel will explore tensions with: school versus library interests and the importance of both differentiation and collaboration; rural versus urban concerns; near-term versus long-term considerations; and the risks/rewards of creative disruption. The E-rate modernization process has uncovered gaps in knowledge and data that present immediate and highly relevant research opportunities to the TPRC community. This panel will inform and tee up many of these research questions.

Moderator: Larra Clark, ALA OITP

Panelists:

- Alan Inouye, ALA Office for Information Technology Policy (OITP)
- Tom Koutsky, Connected Nation
- Jon Peha, Carnegie Mellon
- Marijke Visser, ALA OITP

#### 4:00 pm Panels

### BTOP and Bottom-Up Insights for Closing the Digital Divide

The year 2014 marks the five-year anniversary of the Broadband Technology and Opportunities Program (BTOP) and the Broadband Initiatives Program (BIP), implemented as part of the American Reinvestment and Recovery Act of 2009. Both programs aimed to improve broadband deployment in un-served, underserved and rural areas. It is opportune to look back and evaluate if these programs, through which a total of \$7.2 billion was allocated, had the desired impact on program goals.

This panel will address the effectiveness of BTOP-funded programs to address the digital divide, from both the local (micro) and the national (macro) perspectives. Two panelists will offer insights from several studies conducted in Pennsylvania and Texas on local impacts of BTOP-funded public computer centers (PCCs). Two other panelists will discuss statistical analyses of the impact of broadband deployment on stated program goals.

Insights of relevance to the TPRC community are twofold: first, it will contribute greater understanding of the macro- and micro-level impacts of broadband deployment. Second, it will address the policy imperative of post-implementation evaluation of policy initiatives.

Moderator: Johannes Bauer, Michigan State University

Panelists:

- Krishna Jayakar, Pennsylvania State University
- Eun-A Park, University of New Haven
- Amit Schejter, Ben Gurion University of the Negev
- Brandie Nonnecke, University of California, Berkeley
- Peter Stenberg, U.S. Department of Agriculture
- Sharon Strover, University of Texas at Austin
- Ken Flamm, University of Texas at Austin

### Governing the Ungovernable: Algorithms, Bots, and Threats to Our Information Comfort-Zones

Laws, norms, policies, and institutions have failed to keep up with advances in artificial intelligence. Popularly, we still think of governance of these systems using quotes and metaphors from science fiction authors. The public awareness of the sophistication and capabilities of current systems are also skewed, often in extremes: predicting robot warfare and mind control or suffering complete naivete.

The reality is that intelligent systems are embedded in more and more everyday products and services. The so-called "internet of things" represents a kind of ubiquitous computing that anticipates our needs and provides us information or adjusts the room temperature based on usage patterns. Smarter algorithms power seemingly neutral services like Google's search engine or Facebook's news feed.

This panel brings together domain experts researching the impact of intelligent systems in a variety of arenas including household products, civics, and cyberwarfare. The panel will explore gaps in our existing framework of regulation around these technologies, identify challenges common to the deployment of different intelligent systems in a broad range of contexts, and suggest a common set of research goals to advance the cause of effective governance, mapping out the role different constituencies can play in this effort.

Moderator: Erhardt Graeff, MIT Media Lab and MIT Center for Civic Media

Panelists:

- Kate Darling, MIT Media Lab
- Davis Hake, Department of Homeland Security
- Michael R. Nelson

### 5:30 pm Reception and Poster Session

Poster session includes:

*Empirical Analysis of ICT and Innovation Based on Firm-Level Evidence from Four ASEAN Economies: An Sem Approach*, Masatsugu Tsuji, University of Hyogo

*Convergence in the Digital Economy; An IO Analysis of the Effects of Changing Internet Architecture on Business*, Edmond Baranes, Université Montpellier, Jonathan Liebenau, London School of Economics & Political Science (LSE), Silvia Monica Elaluf-Calderwood, LSE

*How Much Does Broadband Infrastructure Matter? Decomposing the Metro – Non-Metro Adoption Gap with the Help of the National Broadband Map*, Brian Whitacre, Oklahoma State University – Tulsa, Sharon Strover, University of Texas at Austin, Roberto Gallardo, Mississippi State University

*Economic Replicability Tests for Next-Generation Access Networks*, Laure Jaunaux, Orange

*The FCC's Tribal and Remote Areas Broadband Programs: What's Wrong with this Picture?* Heather Hudson, University of Alaska Anchorage

*Rethinking Theory – Rigor and Relevance in Telecommunications Policy Research*, Ewan Sutherland, University of the Witwatersrand

*International Broadband Comparisons*, Richard Bennett, American Enterprise Institute (AEI)

*Standards for Policy-Based Dynamic Spectrum Management*, Carlos Caicedo, Syracuse University, John Stine, MITRE Corporation

*The Role of Confidence Building Measures in Cyber Space*, Koichiro Komiyama, Keio University

*Effects of Large Scale Copyright Enforcement on Infringement and Due Process Procedural Safeguards*, Floris Kreiken, Delft University of Technology

*Policy-Driven Workforce Needs in Northwest Florida: IT/Broadband Job Competencies in Metro and Nonmetro Areas*, Laura Spears, Florida State University, Jisuee Lee, Marcia Mardis, Florida State University, Charles McClure

*Analysis of EU Regulatory Approach for NGA: A Critical Discussion over EU's Recent Fine-Tuning Approach*, Mehmet Bilal Unver, Information and Communication Technologies Authority, Yavuz Goktaylar, Information and Communication Technologies Authority

*Head of the Class: Broadband Usage and 1:1 Program Participation Among American Students*, Chris McGovern, Connected Nation Inc., Hongqiang Sun, John Walker

*Home Hotspots: Neighborly Gesture or Trojan Horse?* Ju Young Lee, Pennsylvania State University, Richard Taylor, Pennsylvania State University

*Reciprocity of Government Restructuring/Policy Changes and the Convergent Environment in South Korea*, Eun-A Park, University of New Haven

*Software Patentability - Open Source Software*, Giovanna Massarotto

*Past, Present and Future of Privacy Reviews in Internet Standard-Setting*, Nick Doty, University of California, Berkeley - School of Information

*Lies, Damn Lies and Mobile Statistics: Forecasting Future Demand for Wireless Spectrum*, Tim Farrar

### 6:45 pm Dinner and Keynote Panel:

#### Why Security is Not Just a Technical Problem

Introduction by Myrna Soto, Comcast  
A discussion led by Bruce Schneier, security technologist, Steve Chabinsky, CrowdStrike, formerly

FBI Cyber Division, and Myrna Soto, Comcast; David Clark, MIT, moderator.

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## Saturday, September 13

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8:00 am **Registration and Continental Breakfast**

9:00 am **Paper Sessions** outlined in grid

10:40 am **Coffee Break**

11:10 am **Paper Sessions** outlined in grid

12:50 pm **Lunch and Student Paper Awards**

2:00 pm **Paper Sessions** outlined in grid

3:40 pm **Coffee Break**

4:10 pm **Paper Sessions** outlined in grid

6:00 pm **Reception**

7:00 pm **Dinner and Keynote Panel:**

#### Policy Challenges for the Future of Internet Governance

- Kathy Brown, Internet Society
- Ambassador Daniel Sepulveda
- Theresa Swinehart, ICANN
- Russ Housley, Internet Architectural Board (IAB)
- Doug Sicker, Broadband Internet Technical Advisory Group (BITAG)
- Ambassador David Gross, Wiley Rein (moderator)

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## Sunday, September 14

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8:00 am **Continental Breakfast**

9:00 am **Paper Sessions** outlined in grid

10:40 am **Coffee Break**

11:10 am **Paper Sessions** outlined in grid

12:50 pm **Conference Adjourned**

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## Conference Information

The 42<sup>nd</sup> Annual Telecommunications Policy Research Conference will be held at George Mason University School of Law in Arlington, VA. Situated in the Washington, DC area, the School of Law offers an ideal atmosphere to explore policy issues within the shadow of the Capitol. *For detailed directions, visit [www.law.gmu.edu/geninfo/directions.html](http://www.law.gmu.edu/geninfo/directions.html).*

George Mason University Arlington campus is conveniently located two blocks from the Metro Orange Line Virginia Square/GMU station.

## Hotel Information

The L. William Seidman Center Hotel at 3451 N. Fairfax Ave., Arlington is adjacent to the GMU School of Law. The hotel is an FDIC facility. Luxury accommodations including spacious rooms with kitchen facilities are available. Please note: the Seidman Center will not split hotel room charges among registrants. The person reserving the room is responsible for full payment.

Alternate hotels are available in the Ballston area. For more information check our website, [www.tprc.org](http://www.tprc.org).

**Hotel reservations should be made directly with the FDIC Seidman Center Hotel by calling 703 516-4630 and referring to the GMU TPR Conference.**

## Conference Registration

Online registration is available at [www.tprc.org](http://www.tprc.org). A downloadable hard copy of the registration form is also available.

## Conference Fees

	Before Aug. 31	After Aug. 31
Student	\$125	\$250
Authors/Co-Authors	\$215	\$365
Academic, Gov't, Non-Profit	\$425	\$575
Industry	\$625	\$775

Registration fees cover all conference sessions, conference materials, continental breakfasts, lunch, dinners and coffee breaks.

An additional \$100 will be charged for on-site registration.

Watch our web site

[www.tprc.org](http://www.tprc.org)

for program updates and additions

## 2014 TPRC Sponsors

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As of September 5, 2014

## Paper Sessions Saturday, September 13

Saturday	Privacy and Security 1	Governance 1	Competition & Markets1	Internet, Innovation & Effects 1	Spectrum & Mobile 1
9:00-10:40	<p><b>Safety in Numbers? The Effect of Network Competition on Cybersecurity</b>, Carolyn Gideon, Tufts University - Fletcher School; Christiaan Hogendorn,* Wesleyan University</p> <p><b>Phishing in Smooth Waters: The State of Banking Certificates in the US</b>, L. Jean Camp *, Indiana University Bloomington; Zheng Dong, Indiana University, Bloomington</p> <p><b>Analyzing Bug Bounty Programs: An Institutional Perspective on the Economics of Software Vulnerabilities</b>, Andreas Kuehn,* Syracuse University; Milton Mueller, Syracuse University</p>	<p><b>Social Justice as an Organizing Principle for Contemporary Media Policy</b>, Amit M. Schejter,* Ben-Gurion University of the Negev; Noam Tirosch, Ben-Gurion University of the Negev</p> <p><b>Debatable Premises in Telecom Policy</b>, Justin Hurwitz, University of Nebraska at Lincoln; Roslyn Layton,* Aalborg University</p> <p><b>Section 10 Forbearance: Asking the Right Questions to Get the Right Answers</b>, George S. Ford, Phoenix Center for Advanced Legal &amp; Economic Public Policy Studies; Lawrence J. Spiwak,* Phoenix Center for Advanced Legal &amp; Economic Public Policy Studies</p>	<p><b>Quality Competition in the Broadband Service Provision Industry</b>, James E. Priege,* Pepperdine University; Scott Savage, University of Colorado at Boulder; Gabor Molnar, University of Colorado at Boulder</p> <p><b>Correlates of Quality Improvement in U.S. Broadband Service</b>, Kenneth Flamm,* University of Texas at Austin</p> <p><b>Effects of Public Policy on Fixed and Mobile Broadband Infrastructure Quality</b>, Johannes M. Bauer,* Michigan State University; Hsin-yi S. Tsai, Michigan State University</p>	<p><b>A Framework for Identifying Appropriate Roles for the Public and Private Sector in National Broadband Deployments in Emerging Economies: The National Broadband Plan of India</b>, Rekha Jain,* IIMA-IDEA Telecom Centre of Excellence, IIMA</p> <p><b>An Evaluation of Applications and Funding Decisions within the Broadband Technology Opportunities Program</b>, Janice A. Hauge,* University of North Texas; Mofioluwasademi Odunowo, University of North Texas</p> <p><b>Private Competition for the Provision of Universal Service Benefits: The Federal Lifeline Program</b>, Thomas Conkling,* University of Wisconsin - Madison</p>	<p><b>Is There a Level of Competition Intensity that Maximizes Investment in the Mobile Telecommunications Industry?</b>, François Jeanjean,* Orange; Georges Vivien Hougbonon, Paris School of Economics</p> <p><b>Overestimating Wireless Demand: Policy and Investment Implications of Upward Bias in Mobile Data Forecasts</b>, Aalok Mehta,* University of Southern California; J. A. Musey, Summit Ridge Group, LLC</p> <p><b>Innovations in Mobile Broadband Pricing</b>, Daniel Lyons,* Boston College - Law School</p>
Saturday	Privacy and Security 2	Governance 2	Competition & Markets 2	Internet, Innovation & Effects 2	Spectrum & Mobile 2
11:10-12:50	<p><b>Cybersecurity as Metaphor: Policy and Defense Implications of Computer Security Metaphors</b>, Josephine Wolff,* Massachusetts Institute of Technology</p> <p><b>Privacy, Security and Surveillance: New Insights into Preferences of European Citizens</b>, Neil Robinson,* RAND Europe; Dimitris Potoglou, RAND Europe; Sunil Patil, RAND Europe – Cambridge; Bhanu Patruni, RAND Europe – Cambridge; Hui Lu, RAND Europe , Fay Dunkerley, RAND Europe, James Fox, RAND Europe</p>	<p><b>Federal and State Authority for Network Neutrality and Broadband Regulation</b>, Tejas N. Narechania*, Columbia Law School</p> <p><b>Toward Sustainable Network-Openness Obligations on Broadband in the U.S.: Surviving Providers First Amendment Challenges</b>, Barbara A. Cherry, Indiana University Bloomington; Julien Mailland,* Indiana University,</p>	<p><b>Research Building the Broadband Performance Index and Broadband Market Model</b>, Bart Voogt, Ad Fundum Consultancy; Wolter Lemstra, Delft University of Technology; Nicolai van Gorp*, Ecorys</p> <p><b>Promoting Competition in the Voice Communications Market: Findings from an Empirical Analysis in the Japanese Setting</b>, Toshiya Jitsuzumi,* Kyushu University</p>	<p><b>Market Driven Network Neutrality and the Fallacy of a Two-Tiered Internet Traffic Regulation</b>, Guenter Knieps,* University of Freiburg; Volker Stocker, University of Freiburg (Germany)</p> <p><b>The Master Switch and the Hyper Giant: Google's Infrastructure and Network Neutrality Strategy in the 2000s</b>, John H. Stevenson,* University of Toronto</p>	<p><b>Emerging Frameworks for Regulation of Over-the-Top Services on Mobile Networks: An International Comparison</b>, Krishna Jayakar,* Pennsylvania State University; Eun-A Park, University of New Haven</p> <p><b>Mobile Handset Acquisition Models</b>, Alexia L. Gonzalez Fanfalone, OECD; Agustin Diaz-Pines,* OECD</p>

**Are Designers Ready for Privacy by Design? Examining Perceptions of Privacy Among Information Systems Designers**, Tomer Hasson, University of Haifa; Irit Hadar, University of Haifa; Oshrat Ayalon,\* Tel Aviv University; Sofia Sherman, University of Haifa; Eran Toch, Tel Aviv University; Michael D. Birnhack,

**Neutrality 2.0: The Broadband Transition to Transparency**, Justin Brown,\* University of South Florida; Andrew W. Bagley, University of Maryland University College

**Innovation, Investment and Competition in Broadband and the Impact on America's Digital Economy**, Michael Horney,\* Mercatus Center at George Mason University; Roslyn Layton, Aalborg University

**Over the Virtual Top: Implications for Hybrid Hetnet Regulation of Digital Service Value Chain Disintermediation**, Lee W. McKnight,\* Syracuse University iSchool

**Universal Service in a Wireless World**, Olga Ukhaneva, Georgetown University (Student Paper Winner)

Saturday

2:00-3:40

**Privacy and Security 3**

**Governance 3**

**Competition & Markets 3**

**Internet, Innovation & Effects 3**

**Spectrum & Mobile 3**

**Loopholes for Circumventing the Constitution: Unrestrained Bulk Surveillance on Americans by Collecting Network Traffic Abroad**, Axel Arnbak,\* Institute for Information Law (IViR, University of Amsterdam); Sharon Goldberg, Boston University

**Net Bias and the Treatment of 'Mission-Critical' Bits**, Rob Frieden,\* Pennsylvania State University

**Usage-Based Pricing and Demand for Residential Broadband**, Aviv Nevo, Northwestern University; John L. Turner, University of Georgia; Jonathan W. Williams, \* University of Georgia

**Persisting Effects of Internet Skills on Online Participation**, Eszter Hargittai, Northwestern University; Sabrina Connell, Northwestern University; Erin F. Klawitter, Northwestern University; Eden Litt,\* Northwestern University

**Risk-Informed Regulation: Lessons for FCC Spectrum Management from Nuclear Industry Policy Making**, Laura Littman,\* University of Colorado Law School; J. P. de Vries, University of Colorado at Boulder Law School

**Implications of Security Enhancements and Interventions for Core Internet Infrastructure**, Sharon Goldberg,\* Boston University; Stephanie Forrest, University of New Mexico

**The Proof of the Pudding is in the Eating: Net Neutrality in Practice, the Dutch Example**, Nico van Eijk\*, Institute for Information Law (IViR, University of Amsterdam)

**Do Three-Part Tariffs Improve Efficiency in Residential Broadband Networks?** Jacob B. Malone, University of Georgia; John L. Turner, University of Georgia; Jonathan W. Williams, University of Georgia

**Social Support and "Playing Around": An Examination of How Older Adults Acquire Digital Literacy with Tablet Computers**, Hsin-yi S. Tsai,\* Michigan State University; Ruth Shillair, Michigan State; Shelia Cotton, Michigan State

**Opportunities and Challenges of Using TV White Spaces: A Comparative Analysis of Approaches Among U.S.A., U.K., and S. Korea**, Boonyeon Kim,\* The National Assembly of the Republic of Korea; Maengjoo Lee, Kangnam University

**The European Approach to Privacy**, Joris van Hoboken, New York University - Leonard N. Stern School of Business

**Towards a Developmental Framework for Net Neutrality: The Rise of Sponsored Data Plans in Developing Countries**, Pedro H. Ramos,\* FGV - São Paulo Law School

**Switching Costs and Resale at a Loss in the Internet Industry**, Khaireddine Jebssi,\* University of Sousse, Tunisia; Besma Labidi, LAMIDED, University of Sousse

**Tools Beyond Control: Private Information Intermediaries and the Work of Advocacy Organizations**, Luis Hestres, American University (Student Paper Winner)

**Assigning Spectrum Fairly: Managing Spectrum Using Long-Term Nationwide and Short-Term Local Spectrum Licenses**, Brett Shaw,\* University of Auckland; Fernando Beltran, University of Auckland; Kevin W. Sowerby, University of Auckland

Saturday

4:10-5:50

**Privacy and Security 4**

**Governance 4**

**Competition & Markets 4**

**Internet, Innovation & Effects 4**

**Spectrum & Mobile 4**

**Privacy as a Public Good**, Joshua Fairfield,\* Washington and Lee University; Christoph Engel, Max Planck Institute for Research on Collective Goods

**Indictments Do Not a Common Law Make: A Critical Look at the FTC's Consumer Protection 'Case Law'**, Berin M. Szoka,\* TechFreedom

**The Future of Online Video: An Economic Perspective**, David Waterman, Indiana University; Ryland Sherman,\* Indiana University; Yongwoog Jeon, Indiana University

**Current Trends and Controversies in Internet Peering and Transit: Implications for the Future Evolution of the Internet**, David P. Reed,\* University of Colorado at Boulder; Douglas Sicker, Carnegie Mellon University; Donny Warbritton, University of Colorado at Boulder

**Enforcement and Network Capacity in Spectrum Sharing: Quantifying the Benefits of Different Enforcement Scenarios**, Mohammed Altamimi,\* University of Pittsburgh Martin B. Weiss, University of Pittsburgh

**The Law and Economics of Data and Privacy in Antitrust Analysis**, Geoffrey A. Manne, International Center for Law & Economics (ICLE); Ben Sperry, ICLE

**Jurisprudential Challenges of FTC and FCC Case-by-Case Adjudication**, Justin (Gus) Hurwitz,\* University of Nebraska at Lincoln

**Toward the Next Generation of Media-- Cloud TV: Markets and Policy**, Eli Noam, Columbia Business School

**Measurement and Analysis of Internet Interconnection and Congestion**, David D. Clark,\* MIT CSAIL; Amogh D. Dhamdhere, CAIDA/UC; Matthew Luckie, CAIDA; Steven Bauer, MIT (LCS); K.C. Claffy, University

**Band Agents: Addressing Collective Action Problems in Fragmented Spectrum Bands**, J. P. de Vries,\* University of Colorado at Boulder Law School

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of California, San Diego (UCSD); William Lehr, MIT CSAIL; Bradley Huffaker, CAIDA

**Disagreeable Privacy Policies: Mismatches between Meaning and Users' Understanding.** Joel R. Reidenberg,\* Princeton University; Aleecia M. McDonald, Stanford University; Florian Schaub, Carnegie Mellon University; Norman Sadeh, Carnegie Mellon University; Travis Breaux, Carnegie Mellon University; Lorrie F. Cranor, Carnegie Mellon University; Fei Liu, Carnegie Mellon University; Amanda Grannis, Fordham Center on Law and Information Policy (CLIP); James T. Graves, Carnegie Mellon University; Thomas B. Norton, Fordham CLIP; Rohan Ramanath, Carnegie Mellon University; N. C. Russell, Fordham CLIP

**Consumer Legal Protections Against the Layers of Big Data.** Andrew W. Bagley,\* University of Maryland University College; Justin Brown, University of South Florida

**Aligning Expectations and Reality about IT/Broadband Education: Perceptions of Job Competencies by Students, New Professionals and Employers.** Jisue Lee, Florida State University; Laura Spears, Florida State University; Chandra Ambapavaru, Jenny Ma, Jon Hollister, Marcia Mardi, Florida State University; Charles McClure

**Do Internet Exchange Points Really Matter? Evidence from Bolivia.** Hernan Galperin,\* Universidad de San Andres; Maria F. Viecens, University of San Andres; Ignacio Alvarez-Hamelin, Universidad de Buenos Aires

**Ex-Post Enforcement in Spectrum Sharing.** Martin B. Weiss, University of Pittsburgh; Amer Malki,\* University of Pittsburgh

## Paper Sessions Sunday, September 14

	Privacy and Security 5	Governance 5	Competition & Markets 5	Internet, Innovation & Effects 5	Spectrum & Mobile 5
Sunday 9:00-10:40	<p><b>The Privacy Paradox: A Facebook Case Study.</b> Vaibhav Garg,* Drexel University; Kevin Benton, Indiana University Bloomington; L. Jean Camp, Indiana University Bloomington</p> <p><b>Privacy Harms and the Effectiveness of the Notice and Choice Framework.</b> Joel R. Reidenberg, Princeton University; N. C. Russell,* Fordham CLIP; Alexander J. Callen, Fordham University; Sophia Qasir, Fordham Center on Law and Information Policy (CLIP); Thomas B. Norton, Fordham Center on Law and Information Policy (CLIP)</p>	<p><b>Excess Baggage? Regulatory Heritage in New Contexts.</b> Jonathan Cave, RAND - Europe</p> <p><b>Towards Global Internet Governance: How to End U.S. Control of ICANN Without Sacrificing Stability, Freedom or Accountability.</b> Milton Mueller,* Syracuse University; Brenden Kuerbis, Syracuse University</p>	<p><b>Foreign Direct Investment and Government Action - An Overview in China Telecom Sector.</b> Jing G. Guan,* China Digest</p> <p><b>China in Africa - The Case of Telecommunications.</b> Ewan Sutherland,* University of Witwatersrand, LINK Centre</p>	<p><b>The Evolution of the Digital Divides in Canada.</b> Karine M. Landry,* Industry Canada; Anik Lacroix, Statistics Canada</p> <p><b>The Impact of Brazil's 'Broadband at School Program' on Student Achievement.</b> Simone Silva,* Murray State University; Martin I. Milkman, Murray State University; Narine Badasyan, Murray State University</p>	<p><b>Trading Wireless Capacity Through Spectrum Virtualization Using LTE-A.</b> Marcela M. Gomez,* University of Pittsburgh; Liu Cui, University of Pittsburgh; Martin B. Weiss, University of Pittsburgh</p> <p><b>Sophisticated Wireless Interference Analysis: A Case Study for Spectrum Sharing Policy.</b> Dirk Grunwald, University of Colorado at Boulder; Rob Alderfer,* CableLabs; Kenneth R. Baker, University of Colorado at Boulder</p>
-	<p><b>Knowledge, Behavior, and Opinions Regarding Online Privacy.</b> Carol M. Hayes,* University of Illinois College of Law; Jay P. Kesan, University of Illinois College of Law; Masooda Bashir, University of Illinois at Urbana-Champaign; Kevin</p>	<p><b>Globalizing Internet Governance: Negotiating Cyberspace Agreements in the Post-Snowden Era.</b> Sarah B. Myers West,* University of Southern California</p>	<p><b>Who Owns the World's Media? Ownership and Concentration Trends of Media Around the World.</b> Eli Noam, Columbia Business School</p>	<p><b>Advancement of Cloud Computing Use and its Impact on Macroeconomics in Japan.</b> Atsushi Ozu,* Ministry of Internal Affairs and Communications - Institute for Information and Communications Policy</p>	<p><b>Spectrum Sharing and Privacy: A Research Agenda</b> Janine S. Hiller,* Virginia Polytechnic Institute &amp; State University; Jung-Min Park, Virginia Polytechnic Institute &amp; State University</p>

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Hoff; University of Illinois at Urbana/Champaign; Gahyun Jeon, University of Illinois at Urbana/Champaign

	Privacy and Security 6	Governance 6	Competition & Markets 6	Internet, Innovation & Effects 6	Spectrum & Mobile 6
Sunday 11:10-12:50	<p><b>Are They Worth Reading? An In-Depth Analysis of Online Advertising Companies' Privacy Policies</b>, Lorrie F. Cranor, Carnegie Mellon University; Candice Hoke, Carnegie Mellon University; Pedro G. Leon,* Carnegie Mellon University; Alyssa Au, University of Pittsburgh</p> <p><b>Policy Prose: The Role of Symbolic Language in the VoIP Deregulation Debate</b>, Gwen Shaffer,* California State University Long Beach</p> <p><b>An Algorithmic Approach To Evaluating Default Privacy Options</b>, Rony Hirshpung, Tel Aviv University; Hadas Shwartz-Chassidim, Tel Aviv University; Toch, Eran*, Tel Aviv University</p>	<p><b>Universal Service in an All-IP World</b>, Jodie Griffin, Public Knowledge</p> <p><b>A Comparison of Public Policy Approaches to the IPv4-IPv6 Transition</b>, Lee Howard,* Time Warner Cable; Jesse H. Sowell, Massachusetts Institute of Technology (MIT) - ESD</p> <p><b>Multiple Trajectories to Realize the Digital Agenda for Europe</b>, Wolter Lemstra, * Delft University of Technology</p>	<p><b>Protocol Layering and Internet Policy</b>, Christopher S. Yoo, University of Pennsylvania Law School</p> <p><b>Local Telephony Rates: Has Deregulation Lead to Higher Competition and Lower Rates?</b> Juan Roldan, Carnegie Mellon University (Student Paper Winner)</p> <p><b>Telecommunications Reform in Mexico: Regulation, Market Structure and Social Coverage</b>, Cristina Casanueva-Reguart,* Universidad Iberoamericana; Erik Bacilio-Avila, Universidad Iberoamericana</p>	<p><b>Evaluating the Impact of Financing Structure Decisions on FTTH Deployment. A Comparison between New Zealand and Europe</b>, Marlies Van der Wee,* Ghent University – iMinds; Fernando Beltran, University of Auckland; Sofie Verbrugge</p> <p><b>Separation Anxieties: Structural Separation and Technological Diffusion in Nascent Fibre Networks</b>, Bronwyn E. Howell,* Victoria University of Wellington - NZ Institute for the Study of Competition and Regulation Inc. and Victoria Management School</p> <p><b>The Impact of ICTs on the Informal Economy</b>, Martha A. Garcia-Murillo,* Syracuse University; Jorge A.Velez-Ospina, Universidad Católica de Colombia</p>	<p><b>Assessment of Current and Future Economic Value of Unlicensed Spectrum in the United States</b>, Raul L. Katz,* The Columbia Institute for Tele-Information (CITI)</p> <p><b>Is Europe Moving Towards a Strategic Development of Spectrum Policy? A Review of the Connected Continent Legislative Proposal</b>, Maria Massaro, Chalmers University of Technology, Erik Bohlin, Chalmers University of Technology</p>