



# Explorations in Cyber International Relations

Massachusetts Institute of Technology

Harvard University

**Fourth ECIR Workshop**

[ecir.mit.edu](http://ecir.mit.edu)

## **Cyber Security & the Governance Gap: Complexity, Contention, Cooperation**

January 6-7, 2014  
Marriott Hotel, Cambridge  
MIT Media Laboratory

**Co-Sponsored by**

**Council on Foreign Relations (CFR)**

and

**Business Executives for National Security (BENS)**

### **The Context**

Of the many realities shaping the future of cyberspace and world politics, two distinctive and potentially powerful trends are among the most salient. One is the unrelenting growth and diversity of threats to cyber security. The other is the diversity of views and visions for governance of cyberspace. Each trend carries its own dynamics, supported by a wide range of actors and interests. Jointly they are central to the cyber arena and to world politics more broadly defined. The Workshop addresses these issues from different perspectives in order to highlight potential “gaps” in cyber governance and the management of security, and identify effective solutions.

### **The Workshop**

We seek to stimulate a constructive discussion about the objectives and requirements for cyber governance by asking, “What sort of governance mechanisms and institutions can lead to effective oversight and management of threats to cyber security? What sort of decision-making, leadership, mandate and authority will be effective?” By the same token, we also ask: “What threats to cyber security can undermine the evolution of governance for cyberspace? Which classes of actors need to be involved in mitigating this process?” These issues are complex and contentious – but they also help highlight emergent forms of cooperation.

### **The Posters**

The Poster Session includes contributions by researchers of the Joint MIT-Harvard ECIR Project as well as invited contributions by participants in this Workshop. Posters cover a wide range of topics related to the agenda, including technology developments, innovations, modeling initiatives, cyber conflicts, modes of collaboration and coordination, institutions of cyber governance, cyber operations of global entities, emergent norms, legal issues, cyber security, new ideas for regulation and management of cyberspace, among others.



**Monday, January 6**

5:00-8:00 p.m.

**POSTER SESSION**

**Tuesday, January 7**

8:00 – 9:00 a.m.

**INTRODUCTION**

9:00 – 9:15 a.m.

9:15 – 9:30 a.m.

**FRAMING SESSION**

9:30 – 10:30 a.m.

10:30 – 10:45 a.m.

**WELCOME SESSION**

*Marriott Hotel*  
2 Cambridge Center, Cambridge, MA

Presented by MIT and Harvard Researchers  
and Workshop Participants

**Reception & Buffet**

**REGISTRATION & BREAKFAST**

*MIT Media Laboratory*  
75 Amherst Street  
Bldg. E14 — 6<sup>th</sup> Floor  
(map at <http://whereis.mit.edu/?go=E14>)

**ISSUES in CONTEXT**

**Cyberspace & International Relations –  
A Co-Evolution Dilemma?**

**Nazli Choucri**, Professor of Political Science, MIT;  
Principal Investigator, ECIR, MIT

**Cyber Security & Cyber Governance**

**Joseph S. Nye, Jr.**, University Distinguished Service  
Professor, Harvard Kennedy School

**PERSPECTIVES on GOVERNANCE & SECURITY**

**Venkatesh Narayanamurti**, Professor of Physics,  
Benjamin Peirce Professor of Technology and  
Public Policy, Harvard University; Principal Investigator,  
ECIR, Harvard

**Cyber Governance – Challenges & Performance**

**Fadi Chehadé**, President and Chief Executive Officer,  
Internet Corporation for Assigned Names and Numbers  
(ICANN)

*Perspectives*

**Melissa Hathaway**, President, Hathaway Global  
Strategies LLC; Senior Advisor, Belfer Center, Harvard  
Kennedy School  
**Lynn St. Amour**, President and Chief Executive Officer of  
the Internet Society (ISOC)

**Commentary & Questions**

**BREAK**

## PANEL SESSIONS

10:45 a.m. – 12:00 p.m. **Panel 1**

### **DIMENSIONS of CYBER SECURITY**

Retaining the focus on gaps in governance and threats to cyber security, this session begins with a presentation on governance from a major institutional perspective, and then addresses questions pertaining to cyber security.

*Moderator*

**Michael Sulmeyer**, Senior Policy Advisor, Office of the Deputy Assistant Secretary of Defense for Cyber Policy

*Presentation*

### **Major Challenges to Governance of Cyberspace**

**Tomas Lamanauskas**, Head, Corporate Strategy Division, International Telecommunication Union (ITU)

*Panel*

**Alfred R. Berkeley**, Chairman, Princeton Capital Management, Inc.; Lead, Cyber Effort, Business Executives for National Security (BENS)

**Richard Bejtlich**, Chief Security Officer, MANDIANT

**Adam Segal**, Maurice R. Greenberg Senior Fellow for China Studies, Council on Foreign Relations (CFR)

12:00 – 1:00 p.m.

## **LUNCH & POSTER SESSION**

1:00 – 2:00 p.m.

**Panel 2**

### **DILEMMAS of CYBER GOVERNANCE**

Focusing on matters of governance, this session addresses some of the theoretical, functional, and operational factors that create problems or dilemmas for effective performance.

*Moderator*

**Melissa Hathaway**, President, Hathaway Global Strategies LLC; Senior Advisor, Belfer Center, Harvard Kennedy School

*Panel*

**Xing Li**, Professor, Electronic Engineering Department, Tsinghua University, Beijing, China; Deputy Director, China Education and Research Network (CERNET) Center

**Milton Mueller**, Professor, School of Information Studies, Syracuse University

**Alexander Klimburg**, Senior Advisor, Austrian Institute of International Affairs, Fellow (incoming) Harvard Kennedy School

## PARALLEL SESSIONS

2:00 – 3:00 p.m.

**Panel 3a**

### **CYBER SECURITY – EMERGENT ISSUES**

The parallel sessions are designed to “dig deeper” into the empirical, operational, and analytical basis that inform our views about emergent futures. Focusing on cyber security, this session considers actors, actions and outcomes.

*Moderator* **Michael Siegel**, Principal Research Scientist, Sloan School of Management, MIT

*Panel* **Brandon Valeriano**, Senior Lecturer, School of Social and Political Sciences, University of Glasgow  
**Tim Maurer**, Policy Analyst, Open Technology Institute, New America Foundation  
**Katie Moussouris**, Senior Security Strategist Lead, Microsoft  
**Urs Luterbacher**, Honorary Professor, International Relations/Political Science, Graduate Institute, Geneva, Switzerland

**Panel 3b** **CYBER GOVERNANCE – BASICS for ACCORD**  
Many features of governance for cyberspace remain to be fully understood. What are these features, and how do they “fit together”? This panel highlights various exiting mechanisms as well as emergent ones. It considers a wide range of issues.

*Moderator* **Joseph Kelly**, Senior Adviser for Cyber, Office of the Under Secretary of Defense for Intelligence

*Panel* **Kilnam Chon**, Professor of Computer Science at the Korea Advanced Institute of Science and Technology (KAIST), Professor, Keio University  
**Jesse Sowell**, Ph.D. Candidate, ESD, MIT  
**Greg Rattray**, CEO and Founding Partner, Delta Risk, LLC  
**Scott Bradner**, University Technology Officer, Harvard University

3:00 – 3:15 p.m.

**BREAK**

**PANEL SESSIONS**

3:15 – 4:15 p.m.

**Panel 4** **PRIVATE-PUBLIC COLLABORATION – A CRITICAL IMPERATIVE?**

While there are diverse perspectives – along with conflicts and contentions – over the nature and value of private public collaboration, almost everyone agrees that such collaboration is essential for the governance of cyberspace and the security of the cyber domain.

*Moderator* **Joel Brenner**, Legal and Security Consultant, Joel Brenner, LLC

*Panel* **Jody Westby**, CEO and Founder, Global Cyber Risk, LLC  
**Michael Sechrist**, Vice President, Corporate Information Security, State Street Corporation  
**Charles Iheagwara**, Managing Director, Unatek, Inc.

4:15 – 5:15 p.m.

**Panel 5** **ALTERNATIVE FUTURES – COMPLEXITY, CONTENTION and COLLABORATION**  
Taking stock of what we have heard today, this session focuses on alternative futures – for cyberspace, cyber security, and governance of the cyber domain. What do we know now that we did not know at the start of the Workshop? Predictions? Surprises? Other?

*Moderator* **Michael Sulmeyer**, Senior Policy Advisor, Office of the Deputy Assistant Secretary of Defense for Cyber Policy

*Panel* **David Clark, The Future of Cyberspace**  
Senior Research Scientist, Computer Science and Artificial Laboratory (CSAIL), MIT

**Herbert S. Lin, The Future of Cyber Security**  
Chief Scientist, Computer Science and Telecommunications Board, National Research Council of the National Academies

**Nazli Choucri, The Future of Cyber Governance**  
Professor of Political Science, MIT; Principal Investigator, ECIR, MIT

**Open Discussion**

## **CLOSING COMMENTS**

5:15 p.m.

## **DRINKS & INFORMAL CONVIVIALITY**

Meadhall  
4 Cambridge Center, Cambridge, MA