Smart Cities: Security, Privacy, and Governance Best Practices

OSTROM WORKSHOP, 513 N. PARK, OCTOBER 3–5, 2018

SCHEDULE

Wednesday, OCTOBER 3

6:00–7:00 PM   **OSTROM MEMORIAL LECTURE**   [Live stream URL]
Milton Mueller, *Georgia Institute of Technology School of Public Policy*
[Maurer School of Law, Moot Court Room 123; reception immediately following in Faculty Lounge Room 310]

Thursday, OCTOBER 4   [Live stream URL]

9:00–10:20 AM   **SECURING (NOT SO) SMART CITIES**

This panel will investigate the cybersecurity and related privacy issues replete in the smart city context, with a focus on governance best practices, technical vulnerabilities, and how to improve cybersecurity due diligence on the part of IoT vendors.

- Scott Shackelford, *Indiana University*
- Jean Camp, *Indiana University*

10:20–11:10 AM   **OPEN GOVERNMENT: GOVERNANCE AND ISSUES**

Open government—that is, "the opening up of government processes, proceedings, documents, and data for public scrutiny and involvement"—is now considered a fundamental element of a democratic society. Greater transparency and public participation can lead not only to better policies and services, they can also promote public sector integrity, which is essential to regaining and maintaining citizens' trust in the neutrality and reliability of public administrations. This panel will explore issues associated with open government and the tensions that open data and smart cities can present in a transparent government.

- Angie Raymond, *Indiana University*
- Kip Tew, *Ice Miller, Indianapolis*
- Benjamin Green, *Berkman Klein Center for Internet & Society*
- Gerry Lanosga, *Indiana University*

11:20–11:50 AM   **MAKING A CITY SMARTER BY IMPROVING ACCESS TO SERVICES**

Open data and public information are key for accessing and improving services in a city, smart or otherwise. Deliberate institutional measures are often required to ensure the maintenance and publication of accurate, usable public information. Yet such measures are often not put in place with any systematic intention—resulting all too often in tragedies of the commons. In this panel, we'll consider the prospects for collective action around the provision of open data and public information. We'll also discuss efforts to use ICT to improve public services and make government perform better.

- Anh Ngoc Tran, *Indiana University*
- Abbey Stemler, *Indiana University*
- Greg Bloom, *Open Referral*
- Simon Boehme, *LegalWin*

11:50 AM–1:30 PM LUNCH BREAK

1:30–2:20 PM   SMART CITIES IN ACTION

Chicago and Seattle are two cities at the forefront of the smart cities movement. This panel is an opportunity to learn about smart city development in these two cities from individuals helping lead the way. Charlie Catlett will discuss the development of Chicago's Array of Things (AoT). "The Array of Things is a collaborative effort among leading scientists, universities, local government, and communities in Chicago to collect real-time data on the city's environment, infrastructure, and activity for research and public use." Ginger Armbruster will discuss Seattle's various efforts to improve transportation through smart city technology, balancing smart city data uses and privacy interests, and the diversity of issues Seattle faces when given the "size and scope of Seattle's city departments" that are involved in Seattle's smart city development.

- Joseph Tomain, *Indiana University*
- Ginger Armbruster, *Seattle's Chief Privacy Officer*
- Charlie Catlett, *Chicago's Array of Things Oversight Council*

2:40–3:30 PM   GOVERNMENTS, DATA, AND SOCIETY

A large focus of smart cities and data governance is on emergency situations, but that emphasis misses how data will also, and perhaps more often, be used for everyday decisions. Cities are likely to look to the private sector to provide at least the data gathering and processing infrastructures, if not the overall services, cities wish to pursue. This point raises questions about the ethics and power at stake in such relationships. Initial attention and intentions about how such systems will be built, maintained, and remain within the control of elected officials are vital issues that may help prevent misuse and abuse of systems that start with beneficial goals but end up with undesired outcomes.

- Deven Desai, *Georgia Tech*
- Janine Hiller, *Virginia Tech*
- Jody Blanke, *Mercer University*
- Joyce Searls, *Trustee, Sovrin Foundation and Customer Commons*

3:40–4:30 PM   GOVERNMENTS, DATA, AND SOCIETY: ASKING THE RIGHT QUESTIONS

Smart cities require governance, specifically governance of intelligence and intelligence-enabled control. In fact, in some very important respects, smart cities should be dumb, and that will take governance. One way to quickly see the point is by way of analogy to the Internet and the decades-long and still ongoing debate about network neutrality. The end-to-end architecture of the Internet and open Internet regulation aim to govern certain uses of intelligence—and thus intelligence-enabled control—by infrastructure owners. Network neutrality is about engineering a governance seam between layers, and cities will face very similar challenges for many different infrastructures and services.

  This analysis is really just illustrative of a deeper set of questions that need to be asked and carefully deliberated by communities going down the smart city path. Drawing from two different research agendas and books—Governing Knowledge Commons and Re-Engineering Humanity—I will outline the set of questions and explain their importance.

- Abbey Stemler, *Indiana University*
- Brett M. Frischmann, *Villanova University*
- Salome Viljoen, *Berkman Klein Center for Internet & Society*
- Doc Searls, *Co-founder and co-organizer of the Internet Identity Workshop*
- Milton Mueller, *Georgia Institute of Technology*

4:30–4:45 PM   WRAP UP

Friday, OCTOBER 5

9:00–11:30 AM   CLOSED DOOR NETWORKING/RESEARCH AGENDA BUILDING