

Call for Papers

Special Issue on Privacy and the Internet of Things

The Internet of Things (IoT) is attracting widespread societal interest. Edith Ramirez, FTC Chairwoman, sums the situation up succinctly:

“ ... companies are investing billions of dollars in this growing industry ... The IoT could improve global health, modernize city infrastructures, and spur global economic growth ... these potential benefits are immense, but so too are the potential risks ... Connected devices ... are also collecting, transmitting, storing, and often sharing vast amounts of consumer data, some of it highly personal, thereby creating a number of privacy risks. [1]

Mitigating the risks to privacy occasioned by widespread sensing and data collection is key to building societal trust into the IoT. Current industry solutions emphasize encryption, but there is more to privacy than confidentiality of data at rest or in motion. Furthermore, encryption often won't stop industry accessing personal data, and metadata can be as or more revealing than data itself. This special issue seeks to open up the design space and consider *what more* is involved in addressing the privacy risks occasioned by the IoT. We invite original and adventurous contributions that explore and elaborate the core privacy challenge from multidisciplinary perspectives.

Topics

Topics of interest include, but are not limited to,

- Social/legal/ethical perspectives on personal data, privacy and IoT development
- HCI/CSCW/UbiComp perspectives on personal data, privacy and IoT development
- Design challenges occasioned by informed consent in the IoT
- Empirical studies of digital privacy practices informing IoT development
- In-the-wild IoT deployments or probes exploring and elaborating privacy challenges
- IoT and Human Data Interaction
- Privacy-preserving IoT models and platforms
- Accountability of IoT devices, applications, services, and analytics (algorithms)
- IoT and personal data management services
- Specific IoT applications enabling privacy protection

Accepted papers will 'speak' not only to home disciplines (e.g., the social sciences or law) but to IoT developers and thus clearly articulate distinct challenges for IoT development occasioned by the pressing need to enable privacy.

Important Dates

Submissions deadline: September 2nd 2016

First reviews due: September 30th 2016

Revisions due: October 28th 2016

Second reviews due: November 14th 2016

Final manuscript: November 30th 2016

Publication date: December 2016

Submission

We seek submission of original papers presenting novel research addressing privacy challenges occasioned by the Internet of Things. Submissions must not be currently under consideration for publication in other venues. PUC's Instructions for Authors are available here: <http://link.springer.com/journal/779>. Manuscripts should be submitted directly to Andy Crabtree, corresponding guest editor (see below), with the subject header 'Special Issue on Privacy and the Internet of Things'.

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EPSRC

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Research Council

EP/M001636/1, Building Accountability into the Internet of Things

http://iotdatabox.com/IoT/EP_M001636_1.html

EP/No28260/1, Databox: Privacy-Aware Infrastructure for Managing Personal Data

<http://www.databoxproject.uk/>

EP/M02315X/1, From Human Data to Personal Experience

<http://www.horizon.ac.uk/>

EU FP7/611001, User Centric Networking

<https://usercentricnetworking.eu/>

Personal Data & Trust Network, Social Innovation Group

<https://pdtn.org/pdtn-group/social-innovation/>