

Call for Contributions

Submission:

1. **Inform the Chairs:** with the Title of your Contribution

2. **Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=MOBILITY+2019+Special>

Please select Track Preference as **AMPNIT**

Special track

AMPNIT: Achieving Mobile Privacy in a Network of Invisible Things

Chair and Coordinator

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along with

MOBILITY 2019, The Ninth International Conference on Mobile Services, Resources, and Users
July 28, 2019 to August 01, 2019 - Nice, France

<https://www.iaria.org/conferences2019/MOBILITY19.html>

We are very close to a time in which we will be immersed within a sea of invisible computers inside mundane objects each containing at least a processor, sensor, and network capability. Though simple, these devices would be augmented by tremendous remote computing power enabling unlimited storage, sophisticated search, accurate prediction and pattern recognition.

Smart phones are tracking computers. Wearable devices can already measure various physical parameters such as the heart rate; body sweat apparently yields numerous clues about body and mind. Increasingly, we crave the convenience of household appliances and home entertainment systems that monitor, report, and control. After a decade of accumulating sensors in our cars, Internet connectivity is becoming standard. It is not far-fetched to envision a walk in a park in which we must encounter sensors in its parking lot, park benches, street lights, and passing cars; cameras in children's play area and in the innocent drone flying overhead; not to mention the sensors in mobile phones of people jogging and sitting.

This new world has the alluring potential of tremendous efficiencies, e.g., in energy usage and food consumption; of early warnings of some mishaps, e.g., heart attacks and traffic congestion; and of the near elimination of others, e.g., burglaries; there are also serious privacy concerns. Revelations of unknown sensors make the news periodically; for example, within the last few months, a microphone discovered in Google's Nest Secure smart home hub caused a stir as did a camera in the in-flight entertainment systems in a Singapore Airlines aircraft.

But our challenge involves not the unknown but rather the known: to comprehend the ramifications of the aggregation of the known non-news-worthy tiny computers, invisible not only from sight but also from thought because they are in unremarkable objects, each with an innocuous non-threatening application. In order to restore a reasonable degree of trust, freedom, and control to a mobile user in the above scenario without forgoing the potential benefits, we need research to answer several questions. For example, how can we design realistic tradeoffs in privacy expectations? Would they require negotiations with various networks? Would achievement of desired privacy come at the expense of usability and convenience? Do our techniques scale with the sheer number of things that surround us? What is an appropriate division of responsibility between technology and law?

Topics include, but not limited to:

- Ubiquity versus privacy
- Usability versus privacy
- Privacy in IoT (Internet of Things)
- Privacy in smart cities
- Privacy in smart grids
- Location privacy
- Privacy-preserving identity management for mobile users
- Privacy-preserving vehicle networks

Important Datelines

Inform the Chair (see Contacts below): as soon as you decide to contribute

Submission: June 2, 2019

Notification: June 22 2019

Registration: July 1, 2019

Camera-ready: July 1, 2019

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaia.org]
- Presentations: slide only [slide-deck posted on www.iaia.org]
- Demos: two pages [posted on www.iaia.org]

Paper Format

- See: <http://www.iaia.org/format.html>

- Before submission, please check and comply with the editorial rules: <http://www.iaia.org/editorialrules.html>

Publications

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- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.

- Registration fees are available at <http://www.iaia.org/registration.html>

Contacts

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