

The background of the slide features a soft-focus photograph of a city skyline, likely Melbourne, Australia. It includes recognizable buildings such as the Eureka Tower and the Prudential Tower. In the foreground, a bridge with a metal railing and a walkway where people are walking is visible, spanning a river.

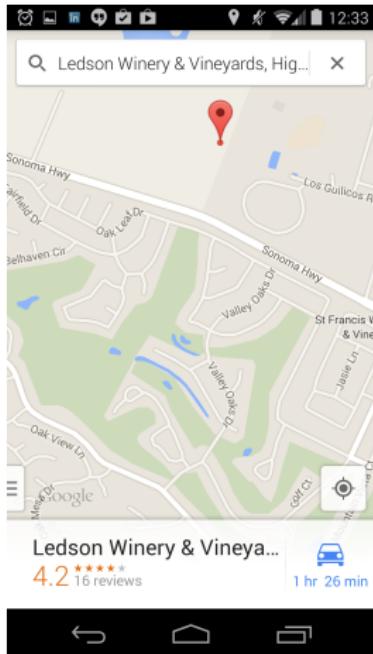
Location Privacy & Security Workshop

At the 10th International Conference on Geographic Information Science

Why LoPaS 2018?

What was the motivation for this workshop?

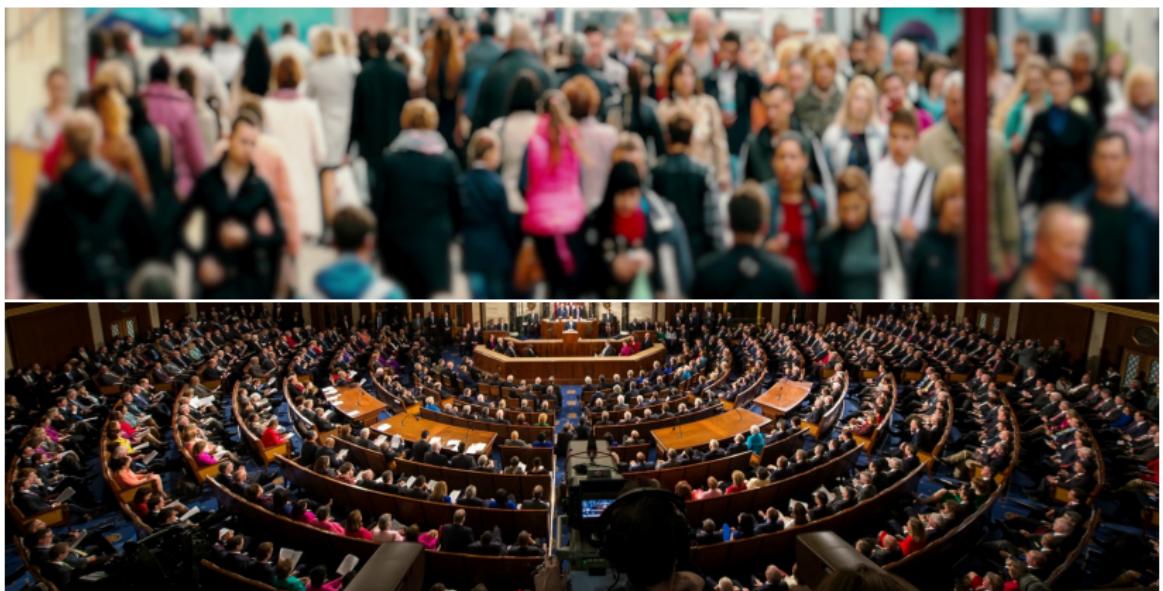




How is Location Privacy & Security Understood?



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Media

In Ruling on Cellphone Location Data, Supreme Court Makes Statement on Digital Privacy | The New York Times - Chronicle

www.nytimes.com/2014/06/23/science/court-warns-on-cell-phone-data.html

In Ruling on Cellphone Location Data, Supreme Court Makes Statement on Digital Privacy



The Supreme Court's ruling made a major statement on privacy in the digital age.

See more... The New York Times

By Adam Liptak June 23, 2014

WASHINGTON — In a major statement on privacy in the digital age, the Supreme Court ruled on Friday that the government generally needs a warrant to collect troves of location data about the customers of cellphone companies.

"We decline to grant the state unrestricted access to a wireless carrier's collection of detailed location information of cell phone subscribers,"

A Location-Sharing Disaster Shows How Exposed You Really Are | WIRED - Chronicle

www.wired.com/story/location-share-disaster-exposes-location-data-privacy/

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Don't want Google tracking you? You have almost no choice, according to a study | The Washington Post - Chronicle

www.washingtonpost.com/technology/2014/06/10/world-wide-google-tracking-you-you-have-almost-no-choice/03333333.html

The Washington Post

Ad closed by Google

Don't want Google tracking you? You have almost no choice, according to a study.



The 2015 RANGE ROVER VELAR
LAND ROVER
HOME

By Steven Levy, Bloomberg News

Why you should protect your child's online privacy | CNN - Chronicle

www.cnn.com/2013/06/10/health/protect-children-online-privacy-partner/index.html

CNN Health + Food | Fitness | Wellness | Parenting | Vital Signs

Live TV U.S. Edition

Why you should protect your child's online privacy

By Caroline Kouri, Common Sense Media

Updated 5:29 AM ET, Wed, June 7, 2017



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Image for Argus 24: David Peacock, Hurricane Lane, Duncan...

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- Purpose of this workshop is to bring together researchers interested in Location Privacy & Security.

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- Computational methods and technology are an important topic, but so are the social, ethical, institutional, legal, etc. components.
- This workshop is intended to be a true workshop rather than another mini-conference.
- Lots of time for discussion, collaborating, setting targets/goals.

Who

Organizers

- Grant McKenzie
- Carsten Keßler
- Clio Andris

Program Committee

- Marc P. Armstrong, University of Iowa
- Carson Farmer, University of Colorado, Boulder
- Sébastien Gambs, Université du Québec à Montréal
- Yingjie Hu, University of Tennessee, Knoxville
- Krzysztof Janowicz, University of California, Santa Barbara
- Peter Johnson, University of Waterloo
- Bernd Resch, University of Salzburg
- Colin Robertson, Wilfrid Laurier University
- Dara Seidl, San Diego State University
- Martin Tomko, University of Melbourne

Accepted Papers

- Seeking Mr & Ms Regular: Sentinels to Characterize Crowd Dynamics
Elham Naghizade, Jeffrey Chan, and Martin Tomko
- Exploring the Effectiveness of Geomasking Techniques for Protecting the Geoprivacy of Twitter Users
Song Gao and Qunying Huang
- trajGANs: Using generative adversarial networks for geo-privacy protection of trajectory data
Xi Liu, Hanzhou Chen, and Clio Andris

Program

- 08:45 - 09:00 Welcome
- 09:00 - 10:00 Keynote: Dr. Benjamin I. P. Rubinstein
- 10:00 - 10:30 Lightning Talks / Introductions
- 10:30 - 11:00 Coffee Break
- 11:00 - 12:00 Accepted Paper Presentations
- 12:00 - 12:30 Is Spatial Privacy Special? Introduction of Discussion Topics
- 12:30 - 14:00 Lunch (*will be provided*)
- 14:00 - 15:30 Break out Groups
- 15:30 - 16:00 Coffee Break
- 16:00 - 17:30 Groups Reporting, Discussion, and Collaborative Planning



Journal of Spatial Information Science

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Location privacy has been a consistent theme in spatial information science for quite some time. While early work on this topic was primarily focused on theoretical concerns over the exploitation of personal location information, recent advances in mobile technology have spurred renewed interest in this domain. As the ubiquity of these sensor-rich devices, smart homes and cities, and content contributed to geosocial media applications increases, the privacy and security of our personal data has come to the forefront of our social dialog. Citizens today are demonstrating appropriate concerns about data sharing, how their data are being used, and implications of having so much data in the hands of a select few.

Researchers in the spatial sciences offer a unique perspective on the discussion of data privacy and security. As a substantial amount of data are generated with some level of location information, a better understanding of the privacy implications of working with, and securing these data are paramount. Additionally, spatial data supports its own unique set of quantitative and qualitative analysis techniques, many of which may impact the privacy of the data contributor or expose details on how the data was created. Researchers in the geospatial sciences are well situated to explore these numerous aspects (as well as the social, economic, political, etc. lenses) through which location privacy and data security can be framed.

Topics of interest for the special feature include, but are not limited to:

- Context-aware mobile applications
- Obfuscation techniques
- Educational approaches to location privacy
- Policy implications of personal location information
- Role of location in personal relationship development
- Geosocial media implications
- Credibility, trust, and expertise related to location information
- Tools and systems for preserving or securing private information
- Techniques for sharing private location information
- Methods for securing location information
- Place-based data privacy
- Individual vs. group privacy preservation
- Gamification techniques
- Next-generation location-based services
- Geofencing
- Marketplaces for location data
- Legal aspects of geoprivacy
- Connections between location data and other kinds of personally identifiable information

Submissions of the following types will be considered:



Towards Turn-Key Differential Privacy

Dr. Benjamin I. P. Rubinstein

Associate Professor

School of Computing & Information Systems

University of Melbourne

The background of the slide features a soft-focus photograph of a city skyline, likely Melbourne, Australia. In the foreground, a bridge spans a river, with people walking on the pedestrian walkway. The skyline includes recognizable buildings like the Eureka Tower and the Prudential Tower.

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