

SPRINGL 2010

Call for Papers

3rd ACM SIGSPATIAL International Workshop on Security and Privacy in GIS and LBS

November 2, 2010, San Jose, CA, USA

<http://springl2010.modap.org>

Our society is witnessing a dramatic increase in geospatial data infrastructures, data products and services, many of them playing a key role in decision making in organizations. There are currently major national and international efforts in the coordinated development, use, sharing, and dissemination of geospatial data in several application contexts including homeland security, environmental crises, and natural and industrial disasters. Geospatial infrastructures are being leveraged by companies to provide a large variety of location-based services (LBS) able to tailor services to users.

However, despite the increase of publicly accessible geospatial information only little attention is being paid on how to secure geospatial information systems (GIS) and LBS. Privacy is also of increasing concern given the sensitivity of personally-identifiable location information. This is despite major advancements that have been made in secure computing infrastructures and the secure and privacy-preserving management of traditional (relational) data in particular. Given these pressing needs for securing GIS and LBS as well as assuring privacy, it is compelling to investigate security and privacy aspects as they relate to the management of geospatial data and the development of both emerging LBS and mission-critical geographic applications. SPRINGL 2010 is the third workshop in the SPRINGL workshop series that aims at bringing together researchers working on the foundations of the field and on novel applications bridging spatio-temporal data management and security and privacy.

Topics

Access control for spatio-temporal databases	Mobile identities
Access control for moving object databases	Obfuscation of sensitive geospatial information
Administration of security and privacy policies	Privacy ontology
Anonymization techniques for LBS	Privacy-preserving analysis of spatio-temporal data
Application of encryption techniques to LBS	Security and privacy policies for geo-social networks
Convergence of physical and logical security	Secure localization
Context-aware access control	Secure outsourcing of geospatial data
Context-aware digital identity management	Security and privacy for RFID systems
Context-aware location privacy	Security and privacy for streaming data
Digital rights management for geospatial data	Security for spatial data infrastructures (SDI)
High assurance integrity for geospatial data	Service-based access control to geospatial data
Information hiding in geospatial data	Usability of security and privacy services for LBS
Interdisciplinary approaches and studies (e.g., law)	Usage control for LBS and mobile user
Location and movement-aware security	

Submission Instructions

Submitted papers must not substantially overlap with papers that have been published or that are simultaneously submitted to a journal or a conference with proceedings. Submitted papers can be of two types:

- Regular Research Papers: these papers should report original research results or significant case studies. They should be at most 8 pages.
- Position Papers: these papers should report novel research directions or identify challenging problems. They should be at most 5 pages.

Manuscripts (research paper and position paper) should be submitted in PDF format and formatted using the ACM camera-ready templates available at: <http://www.acm.org/sigs/pubs/proceed/template.html>. Papers must be electronically submitted at the following address: <http://www.easychair.org/conferences/?conf=springl2010>. Authors of accepted papers must guarantee that their paper will be presented at the workshop. The workshop proceedings will also be part of the ACM Digital Library. A special issue including the best regular papers will be organized for publication in the Transactions on Data Privacy (<http://www.tdp.cat/>).

Important Dates

Paper submissions due: **August 1, 2010**
Notification to the authors: **September 1, 2010**
Camera ready papers due: **September 7, 2010**
ACM GIS 2010 Conference: **November 2-5, 2010**
SPRINGL Workshop: **November 2, 2010**

General Chair

Elisa Bertino, Purdue University, USA

Program Co-chairs

Maria Luisa Damiani, University of Milan, Italy
Yücel Saygin, Sabanci University, Istanbul, Turkey

Web Site Chair

Mehmet Emrah Durulan, Sabanci University, Istanbul, Turkey

Program Committee

Walid Aref, Purdue University, USA
Patrick Capolsini, Université de la Polynésie Française
Reynold Cheng, University of Hong Kong, Hong Kong
Isabel Cruz, University of Illinois at Chicago, USA
Josep Domingo-Ferrer, Universitat Rovira i Virgili, Spain
Matt Duckham, University of Melbourne, Australia
Paul El Khoury, SAP Research, France
Bert-Jaap Koops, University of Tilburg, Netherlands
Michael Gertz, University of Heidelberg, Germany
Gabriel Ghinita, Purdue University, USA
James Joshi, University of Pittsburgh, USA
Fosca Giannotti, ISTI-CNR, Italy
Man Lung Yiu, Hong Kong Polytechnic University, Honk Kong
Ling Liu, Georgia Institute of Technology, USA
Jorge Lobo, IBM, USA
Hervé Martin, University of Grenoble, France
Mohamed Mokbel, University of Minnesota, USA
Tiancheng Li, Purdue University, USA
Indrakshi Ray, Colorado State University, USA
Yannis Theodoridis, University of Piraeus, Greece
Vicenç Torra, IIIA-CSIC, Catalonia, Spain
Erik Wilde, UC Berkeley, USA
Jianliang Xu, Hong Kong Baptist University, Honk Kong
Yu Zheng, Microsoft Research Asia, R.P. China