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Sent: Wednesday, July 07, 2010 7:40 AM
To: dbworld@cs.wisc.edu
Subject: [Dbworld] CFP: 2nd IEEE Intl. Workshop on Privacy Aspects of DataMining (PADM 2010)

[please distribute - apologies for multiple postings]

Call for Papers --- PADM 2010

2nd IEEE International Workshop on Privacy Aspects of Data Mining
(in conjunction with ICDM 2010, December 14, 2010, Sydney, Australia)
<http://www.zurich.ibm.com/padm2010/>

IMPORTANT DATES

- * Workshop paper submission deadline: July 23, 2010
- * Workshop paper acceptance notification: September 20, 2010
- * Workshop paper camera-ready deadline: October 11, 2010

OVERVIEW

The collection, analysis and sharing of person-specific data for publication or data mining, raise serious concerns about the privacy of individuals who are represented in the data, as well as the sensitive knowledge patterns that can be exposed when mining the data. To address these concerns, the domain of privacy preserving data mining was brought into existence almost a decade ago. Since then, a wide variety of methodologies for privacy aware data sharing and integration, privacy preserving data publication and privacy preserving data mining, have been developed. Although significant research on this domain has been conducted over the last years, there are still many challenges that require further investigation both from a theoretical and from a practical point of view. First of all, emerging research areas, such as stream mining, mobility data mining and social network analysis, require new theoretical and applied techniques for the offering of privacy. Second, there is!

an urging need for privacy methodologies that can offer guarantees about the level of achieved data quality and utility, and thus be suitable for data demanding applications, such as biomedical and healthcare studies, location based services and e-commerce. Third, the integration or linkage of data in a privacy preserving manner along with the privacy aware collaborative mining of data require further stimulus to provide scalable methodologies on very large datasets and large number of parties, while offering a high level of privacy.

PADM will be a full-day workshop that will be held in conjunction with the IEEE ICDM 2010 conference in Sydney, Australia. Following last year's event, PADM 2010 will seek submissions that cover state-of-the-art research on privacy and security aspects of data mining, with particular focus on the applications of privacy and security in emerging domains.

TOPICS OF INTEREST

The workshop's topics of interest include, but are not limited to, the following areas:

- * Biomedical and healthcare data mining privacy
- * Cryptographic approaches for privacy preserving data mining
- * Data mining for intrusion detection, fraud and identity theft prevention
- * Privacy preserving data publishing and anonymity
- * Knowledge hiding methodologies

- * Inference and disclosure control for data mining
- * Privacy in e-commerce and user profiling
- * Privacy aware access control
- * Privacy and security when mining outsourced data
- * Privacy aspects of ubiquitous computing systems
- * Privacy preserving link and social network analysis
- * Privacy preserving data integration and record linkage
- * Security and privacy issues in mobility and spatiotemporal data mining
- * Case studies of practical privacy preserving data analytics

SUBMISSION GUIDELINES

Paper submissions should be limited to a maximum of 10 pages in the IEEE 2-column format. All papers will be double-blind reviewed by the Program Committee on the basis of technical quality, relevance to data mining, originality, significance, and clarity. Papers that have already been accepted or are currently under review for other conferences or journals will not be considered for PADM 2010.

The authors of a small number of selected (best) papers from the workshop will be invited to prepare a substantially revised and extended version of their work for publication to a special issue in the Journal of Computing Science and Engineering (JCSE). Each invited paper will be at most 30 pages long and will be reviewed prior to acceptance. The special issue will be published as the second issue of 2011 (June 2011).

WORKSHOP ORGANIZERS

- * Aris Gkoulalas-Divanis, IBM Research Zurich, Switzerland
- * Kun Liu, Yahoo! Research Labs, California, USA
- * Vassilios S. Verykios, University of Thessaly, Greece
- * Ran Wolff, Haifa University, Israel

PROGRAM COMMITTEE

- * Peter Christen, Australian National University, Australia
- * Maria-Luisa Damiani, Universita degli Studi di Milano, Italy
- * Josep Domingo-Ferrer, Universitat Rovira i Virgili, Catalonia
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- * Grigorios Loukides, Vanderbilt University, USA
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- * Jian Pei, Simon Fraser University, Canada
- * Yucel Saygin, Sabanci University, Turkey
- * Evimaria Terzi, Boston University, USA
- * Jaideep Vaidya, Rutgers University, USA
- * Xintao Wu, University of North Carolina at Charlotte, USA

More information about PADM 2010 can be found at: <http://www.zurich.ibm.com/padm2010/>
 Questions should be directed to the workshop co-chairs at: padm2010.workshop@gmail.com

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