

article document CALL FOR PAPERS TPDP 2015 First workshop on the Theory and Practice of Differential Privacy 18th April 2015, London, UK Affiliated to ETAPS <http://tpdp.computing.dundee.ac.uk>

Differential privacy is a promising approach to the privacy-preserving release of data: it offers a strong guaranteed bound on the increase in harm that a user incurs as a result of participating in a differentially private data analysis.

Researchers in differential privacy come from several area of computer science as algorithms, programming languages, security, databases, machine learning, as well as from several areas of statistics and data analysis. The workshop is intended to be an occasion for researchers from these different research areas to discuss the recent developments in the theory and practice of differential privacy.

Submissions

The overall goal of TPDP is to stimulate the discussion on the relevance of differentially private data analyses in practice. For this reason, we seek contributions from different research areas of computer science and statistics.

Authors are invited to submit a short abstract (4-5 pages maximum) of their work by January 23, 2015. Abstracts must be written in English and be submitted as a single PDF file at the EasyChair page for TPDP: <https://easychair.org/conferences/?conf=tpdp2015>

Submissions will be judged on originality, relevance, interest and clarity. Submission should describe novel works or works that have already appeared elsewhere but that can stimulate the discussion between the different communities. Accepted abstracts will be presented at the workshop.

The workshop will not have formal proceedings, but we plan to have a special issue of the Journal of Privacy and Confidentiality devoted to TPDP. Authors presenting valuable contributions at the workshop will be invited to submit a journal version of their work right after the workshops.

Submissions of abstracts by PC members are allowed and encouraged.

Important Dates

January 23, 2015 - Abstract Submission February 13, 2015 - Notification April 18, 2015 - Workshop

May 15, 2015 Deadline for journal special issue

Topics

Specific topics of interest for the workshop include (but are not limited to):

theory of differential privacy, verification techniques for differential privacy, programming languages for differential privacy, models for differential privacy, trade-offs between privacy protection and analytic utility, differential privacy and surveys, relaxations of the differential privacy definition, differential privacy vs other privacy notions and methods, differential privacy and accuracy, practical differential privacy, implementations for differential privacy, differential privacy and security, applications of differential privacy.

Invited Speakers

To be confirmed

Program Committee

Gilles Barthe - IMDEA Software Konstantinos Chatzikokolakis - CNRS and LIX, Ecole Polytechnique
Kamalika Chaudhuri - UC San Diego Graham Cormode - University of Warwick George Danezis - University College London Marco Gaboardi - University of Dundee Matteo Maffei - CISPA, Saarland University Catuscia Palamidessi - INRIA and LIX, Ecole Polytechnique Benjamin C. Pierce - University of Pennsylvania Aaron Roth - University of Pennsylvania David Sands - Chalmers University of Technology Chris Skinner - London School of Economics Adam Smith - Pennsylvania State University Carmela Troncoso - Gradiant Salil Vadhan - Harvard University