Call for papers

WAHC'14

2nd Workshop on Applied Homomorphic Cryptography and Encrypted Computing

Associated with Financial Cryptography & Data Security 2014

Rockley, Christ Church, Barbados, West Indies
March 7, 2014

Keynote
Zvika Brakerski, Computer Science Department, Stanford University

Homomorphic Cryptography is one of the hottest topics in mathematics and computer science since Gentry presented the first construction of a fully homomorphic encryption scheme in 2009. Recently, a number of extensions to the original approach, as well as new paradigms have been proposed, creating a diverse basis for further theoretical research. On the other hand, we need research on practical applications of homomorphic encryption which is still less advanced. The cloud hype and different recent disclosures clearly show that there is a strong demand for secure delegation of computation. The technologies and techniques discussed in this workshop are a key to extend the range of applications that can be securely outsourced.

Topics include (but are not limited to)
- Implementation issues of homomorphic encryption schemes
- Practical performance evaluation of homomorphic schemes
- Software architectures for encrypted applications
- Platform and system integration for encrypted applications
- Algorithmic primitives for encrypted applications
- Encrypted search schemes
- Encrypted e-payment solutions
- Encrypted financial transactions
- Encrypted applications in bio-informatics
- Hybrid (partly encrypted) applications

Submission
All accepted papers will be published in an LNCS volume (as part of the main FC '14 proceedings or collected in a subsidiary workshop proceedings). Submissions are limited to 12 pages including references and appendices. Authors are invited to submit anonymous versions of their papers for initial review via EasyChair.

Schedule
Submission Deadline: Jan 15, 2014
Notification: Jan 31, 2014
Camera Ready Due: Feb 15, 2014
Workshop: March 7, 2014

https://www.dcsec.uni-hannover.de/wahc14.html

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