

Courses: Analysis of Programs, Automata Theory, Graduate Combinatorics and Graph Theory.

PROGRAM COMMITTEE

- 19th International Workshop on Randomization and Computation (RANDOM' 2015)

REFERENCE SERVICE

- Journal Refereeing
 - SIAM Journal on Computing (SICOMP)
 - IEEE Transactions on Information Theory
 - Theory of Computing (TOC)
 - Computational Statistics
 - Theoretical Computer Science (TCS)
 - American Mathematical Monthly
 - International Journal of Foundations of Computer Science (IJFCS)
 - The Computer Journal
 - IET Information Security (IETIS)
- Conference Refereeing
 - ACM Symposium on Theory of Computing (STOC)
 - IEEE Symposium on Foundations of Computer Science (FOCS)
 - Theory of Cryptography (TCC)
 - Innovations in Theoretical Computer Science (ITCS)
 - International Workshop on Randomization and Computation (RANDOM)
 - IEEE International Symposium on Information Theory (ISIT)

INVITED KEYNOTE TALK

Non-Malleable Extractors, Non-Malleable Condensers and their Applications

- 6th International Conference on Information Theoretic Security (ICITS 2012), August 2012.

INVITED TALKS

New Independent Source Extractors with Exponential Improvement

- Institute for Advanced Study, Princeton, NJ, Computer Science/Discrete Math Seminar, January 2013.
- Also at 45th Annual ACM Symposium on Theory of Computing (STOC 2013).

Privacy Amplification and Non-Malleable Extractors Via Character Sums

- Microsoft Research Redmond, Cryptography Colloquium, November 2011.
- University of Washington, Theory Seminar, October 2011.
- Also at 52nd Annual IEEE Symposium on Foundations of Computer Science (FOCS 2011).

Improved Constructions of Three Source Extractors

- Dagstuhl Workshop, "Computational Complexity of Discrete Problems", March 2011.
- Also at 26th Annual IEEE Conference on Computational Complexity (CCC 2011).

A New Approach to Affine Extractors and Dispersers

- University of Washington, Theory Seminar, April 2012.
- Tsinghua University, Beijing, China, “China Theory Week”, September 2010.
- Also at 26th Annual IEEE Conference on Computational Complexity (CCC 2011).

2-Source Extractors Under Computational Assumptions and Cryptography with Defective Randomness

- University of Texas at Austin, Theory Seminar, May 2009.
- Also at 50th Annual IEEE Symposium on Foundations of Computer Science (FOCS 2009).

Network Extractor Protocols

- University of Texas at Austin, Theory Seminar, September 2008.
- Also at 49th Annual IEEE Symposium on Foundations of Computer Science (FOCS 2008).

CONFERENCE PRESENTATIONS

Extractors for a Constant Number of Independent Sources with Polylogarithmic Min-Entropy

- 54th Annual IEEE Symposium on Foundations of Computer Science (FOCS 2013).

Non-Malleable Extractors, Two-Source Extractors and Privacy Amplification

- 53rd Annual IEEE Symposium on Foundations of Computer Science (FOCS 2012).

Design Extractors, Non-Malleable Condensers and Privacy Amplification

- 44th Annual ACM Symposium on Theory of Computing (STOC 2012).

PUBLICATIONS

1 Xin Li.

Non-Malleable Condensers for Arbitrary Min-Entropy, and Almost Optimal Protocols for Privacy Amplification.

12th IACR Theory of Cryptography Conference (TCC 2015).

2 Kai-Min Chung, Xin Li and Xiaodi Wu.

Multi-Source Randomness Extractors Against Quantum Side Information, and their Applications. *Electronic Colloquium on Computational Complexity (ECCC 2014).*

3 Yevgeniy Dodis, Xin Li, Trevor D. Wooley and David Zuckerman.

Privacy Amplification and Non-Malleable Extractors Via Character Sums.

SIAM Journal on Computing (SICOMP 2014). Preliminary version in 52nd Annual IEEE Symposium on Foundations of Computer Science (FOCS 2011).

4 Xin Li.

Extractors for a Constant Number of Independent Sources with Polylogarithmic Min-Entropy.

54th Annual IEEE Symposium on Foundations of Computer Science (FOCS 2013).

Invited to SICOMP Special Issue for FOCS 2013.

- 5 Yuval Ishai, Eyal Kushilevitz, Xin Li, Rafail Ostrovsky, Manoj Prabhakaran, Amit Sahai and David Zuckerman.
Robust Pseudorandom Generators.
40th International Colloquium on Automata, Languages and Programming (ICALP 2013).
- 6 Xin Li.
New Independent Source Extractors with Exponential Improvement.
45th Annual ACM Symposium on Theory of Computing (STOC 2013).
- 7 Xin Li.
Non-Malleable Extractors, Two-Source Extractors and Privacy Amplification.
53rd Annual IEEE Symposium on Foundations of Computer Science (FOCS 2012).
- 8 Xin Li.
Design Extractors, Non-Malleable Condensers and Privacy Amplification.
44th Annual ACM Symposium on Theory of Computing (STOC 2012).
- 9 Xin Li.
Improved Constructions of Three Source Extractors.
26th Annual IEEE Conference on Computational Complexity (CCC 2011).
- 10 Xin Li.
A New Approach to Affine Extractors and Dispersers.
26th Annual IEEE Conference on Computational Complexity (CCC 2011).
- 11 Yael Tauman Kalai, Xin Li and Anup Rao.
2-Source Extractors Under Computational Assumptions and Cryptography with Defective Randomness.
50th Annual IEEE Symposium on Foundations of Computer Science (FOCS 2009).
- 12 Yael Tauman Kalai, Xin Li, Anup Rao and David Zuckerman.
Network Extractor Protocols.
49th Annual IEEE Symposium on Foundations of Computer Science (FOCS 2008).
- 13 Runyao Duan, Yuan Feng, Xin Li and Mingsheng Ying.
Multiple-copy entanglement transformation and entanglement catalysis.
Physical Review A 2005 (PRA 2005).
- 14 Runyao Duan, Yuan Feng, Xin Li and Mingsheng Ying.
Trade-off between multiple-copy transformation and entanglement catalysis.
Physical Review A 2005 (PRA 2005).
- 15 Xin Li, Luo Sun, Linmi Tao, Guangyou Xu and Ying Jia.
A Speaker Tracking Algorithm Based on Audio and Visual Information Fusion Using Particle Filter.
1st International Conference on Image Analysis and Recognition (ICIAR 2004).