

Workshop: China Theory Week 2012

August 13 to 17, 2012
Aarhus University, Denmark



■ SCIENTIFIC ORGANIZER

Peter Bro Miltersen
Aarhus University
Department of Computer Science

Venues

All lectures take place at:

INCUBA Science Park

Åbogade 15

DK-8200 Aarhus N

Lecture room: Small Auditorium (lille aud)

[Download map of the workshop area \(pdf\)](#)



** Please note that the program may be subject to last-minute changes.*

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Monday August 13, 2012			
TIME	ACTIVITIES		VENUE
08:30-09:20	Registration		
09:20-09:30	Opening remarks by Peter Bro Miltersen		Lille AUD - IT-Huset
09:30-10:30	Keynote talk 1	Eric Allender - Rutgers <i>The strange link between incompressibility and computational complexity</i>	Lille AUD - IT-Huset
	Chair: Jesper B. Nielsen		
10:30-11:00	Coffee break		
11:00-12:00	Keynote talk 1 continued	Eric Allender - Rutgers <i>The strange link between incompressibility and computational complexity</i>	Lille AUD - IT-Huset
	Chair: Jesper B. Nielsen		
12:00-14:00	Lunch Break - Lunch is on your own		
14:00-15:00	Chair: Joshua Brody	Chris Beck - Princeton <i>Time space Tradeoffs in Proof Complexity</i>	Lille AUD - IT-Huset
		Chengu Wang - Tsinghua University <i>Communication Complexity of Some Graph Problems</i>	
15:00-15:30	Coffee break		
15:30-17:00	Chair: Wei Yu	Klim Efremenko - Tel Aviv Univeristy <i>From Irreducible Representations to Locally Decodable Codes</i>	Lille AUD - IT-Huset
		Li-Yang Tan - Columbia <i>Attribute-Efficient Learning and Weight-degree Tradeoffs for Polynomial Threshold Functions</i>	
		Hao Song - Tsinghua University <i>Space-Bounded Communication Complexity</i>	

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Tuesday August 14, 2012			
TIME	ACTIVITIES		VENUE
09:30-10:30	Chair: Claudio Orlandi	Jan Bulanek - Czech Academy of Sciences <i>Tight Lower Bound for Online Labeling and File Maintenance Problem</i>	Lille AUD - IT-Huset
		Radu Curticapean - Universität des Saarlandes <i>Parameterized Counting Complexity: Weighted Matchings and Parameterized Holographic Reductions</i>	
10:30-11:00	Group Photo + Coffee break		
11:00-12:30	Chair: Dominik Scheder	Richard Peng - CMU <i>Algorithm Design using Spectral Graph Theory</i>	Lille AUD - IT-Huset
		Karl Bringmann - MPI Saarbrücken <i>Efficient Sampling Methods for Discrete Distributions</i>	
		Bruno Loff - CWI <i>Hardness of Approximation for the Knapsack Problem</i>	
12:30-14:30	Lunch Break - Lunch is on your own		
14:30-15:30	Keynote talk 2	Vijay Vazirani - Georgia Tech <i>Dispelling an Old Myth about an Ancient Algorithm</i>	Lille AUD - IT-Huset
	Chair: Peter B. Miltersen		
15:30-16:00	Coffee break		
16:00-17:00	Keynote talk 2 continued	Vijay Vazirani - Georgia Tech <i>Dispelling an Old Myth about an Ancient Algorithm</i>	Lille AUD - IT-Huset
	Chair: Peter B. Miltersen		
18:00-????	Chair: Dominik Scheder	Pizza & Beer Session	ADA 333

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Wednesday August 15, 2012			
TIME	ACTIVITIES		VENUE
09:30-10:30	Chair:	Pablo Azar - MIT <i>Rational Proofs</i>	Lille AUD - IT-Huset
	Sebastian Faust	Pavel Hubacek – Aarhus University <i>Cryptographic Cheap Talk</i>	
10:30-11:00	Coffee break		
11:00-12:30	Chair:	Gil Cohen - Weizmann <i>Non-Malleable Extractors and Applications to Privacy Amplification</i>	Lille AUD - IT-Huset
	Tomas Toft	Sanjam Garg - UCLA <i>Adaptively Secure Multi-Party Computation with Dishonest Majority</i>	
12:30-14:00	Lunch Break - Lunch is on your own		
14:00-17:00	OUTING: <i>Visit to Den Gamle By (The Old Town)</i>		Viborgvej 2 Aarhus C
18:30-????	Official Dinner at AROS		Aros Allé 2 Aarhus C

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Thursday August 16, 2012			
TIME	ACTIVITIES		VENUE
09:30-10:30	Keynote talk 3	Christos Papadimitriou - Berkeley	Lille AUD - IT-Huset
	Chair: Peter B. Miltersen	<i>Computational Insights in the Theory of Evolution</i>	
10:30-11:00	Coffee break		
11:00-12:00	Keynote talk 3 continued	Christos Papadimitriou - Berkeley	Lille AUD - IT-Huset
	Chair: Peter B. Miltersen	<i>Computational Insights in the Theory of Evolution</i>	
12:00-14:00	Lunch Break - Lunch is on your own		
14:00-15:00	Chair: Jie Zhang	Chris Wilkens - Berkeley <i>Single-Call Mechanisms</i>	Lille AUD - IT-Huset
		Aris Filos-Ratsikas - Aarhus University <i>An Improved 2-Agent Kidney Exchange Mechanism</i>	
15:00-15:30	Coffee Break		
15:30-17:00	Chair: Jie Zhang	Yuli Ye - University of Toronto <i>A Fairy Tale of Greedy Algorithms</i>	Lille AUD - IT-Huset
		Kevin Lewi - Stanford <i>Preventing Unraveling in Social Networks: The Anchored k-Core Problem</i>	
		Kasper G. Larsen - Aarhus University <i>The Cell Probe Complexity of Dynamic Range Counting</i>	
18:00-????	Chair: Joshua Brody	Pizza & Beer Session	ADA 333

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Friday August 17, 2012			
TIME	ACTIVITIES		VENUE
09:30-10:30	Chair	Ruta Mehta - IIT Bombay <i>Efficient Nash Equilibrium Computation in Two Player Rank-1 Games</i>	Lille AUD - IT-Huset
	Kristoffer A. Hansen	Jugal Garg - IIT Bombay <i>Linear Complementarity Problem and Market Equilibria</i>	
10:30-11:00	Coffee break		
11:00-12:00	Chair:	Alistair Stewart - University of Edinburgh <i>Polynomial time algorithms for Branching Markov (Decision) Processes</i>	Lille AUD - IT-Huset
	Kristoffer A. Hansen	Rasmus Ibsen-Jensen - Aarhus University <i>A Faster Algorithm for Solving One-Clock Priced Timed Games</i>	
12:00-12:10	Peter Bro Miltersen	Closing remarks	

■ ADMINISTRATIVE ORGANIZERS

Julie Sara Terndrup
Aarhus University
Department of Computer Science

Jan Frederiksen
Aarhus University
Department of Computer Science