Program

	Sep. 12th (Sun.)	Sep. 13th (Mon.)	Sep. 14th (Tue.)	Sep. 15th (Wed.)	Sep. 16th (Thu.)	Sep. 17th (Fri.)	Sep. 18th (Sat.)
08:50-09:00		Opening Remarks				Tour	Informal Tour & Possibly Open Problems
09:00-10:00		Keynote Talk 1	Keynote Talk 3	Keynote Talk 4	Keynote Talk 5		
10:00-10:30		Group Photo Coffee Break	Coffee Break				
10:30-12:00		Keynote Talk 2	Session 3 Cryptography	Session 6 Algs/Data Structures/ Applications	Session 9 Game Theory		
12:00-14:00		Lunch					
14:00-15:00	Registration	Session 1 Complexity	Session 4 Property Testing	Session 7 Complexity	Session 10 Concentration and Applications		
15:00-15:30		Coffee Break					
15:30-16:30		Session 2 Complexity	Session 5 Learning	Session 8 Complexity	Session 11 Algs/Data Structures/Applications		
16:30-17:00			ITCS Showcase	Discussion	Discussion		
17:00-17:30					Closing Ceremony		
18:00-20:00		Reception			Banquet		

Monday September 13, 2010			
TIME	**ACTIVITIES**		**VENUE**
08:50-09:00	Opening Remarks		Lecture Hall (2nd Floor), FIT Building
09:00-10:00	Keynote Talk 1 Chair: Andrew Yao	Title: Some Results in Circuit Complexity **Johan Håstad** (Kungliga Tekniska högskolan)	
10:00-10:30	Group Photo + Coffee Break		Photo at Main Gate of FIT Building
10:30-11:30	Keynote Talk 2 Chair: Ryan O'Donnell	Title: Open problems in unconditional derandomization **Luca Trevisan** (UC Berkeley & Stanford)	Lecture Hall (2nd Floor), FIT Building
12:00-14:00	Lunch		Wenjin Hotel
14:00-15:00	Session 1 Chair: Andrew Wan	Title: The Lovász Local Lemma and Satisfiability **Robin Moser** (ETH Zurich) Title: Satisfiability Allows No Nontrivial Sparsification Unless The Polynomial-Time Hierarchy Collapses **Holger Dell** (Humboldt University of Berlin)	Room 1-315, FIT Building
15:00-15:30	Coffee Break		Lobby of Room 1-315, FIT Building
15:30-17:00	Session 2 Chair: Periklis Papakonstantinou	Title: Locally Testable Codes Analogues to the Unique Games Conjecture Do Not Exist **Gillat Kol** (Weizmann Institute of Science) Title: The Gaussian Surface Area and Noise Sensitivity of Degree-d Polynomial Threshold Functions **Daniel Kane** (Harvard University) Title: Improved Direct Product Theorems for Randomized Query Complexity **Andrew Drucker** (MIT)	Room 1-315, FIT Building
18:00-20:00	Reception		Ball Room (6th Floor), Wenjin Hotel

Tuesday September 14, 2010			
TIME	**ACTIVITIES**		**VENUE**
09:00-10:00	Keynote Talk 3 Chair: Luca Trevisan	Title: Invariance Principles in Theoretical Computer Science **Ryan O'Donnell** (Carnegie Mellon University)	Room 1-315, FIT Building
10:00-10:30	Coffee Break		Lobby of Room 1-315, FIT Building
10:30-12:00	Session 3 Chair: John Steinberger	Title: Overcoming the Hole in the Bucket: Public-Key Cryptography Resilient to Continual Memory Leakage **Zvika Brakerski** (Weizmann Institute of Science) Title: On the Computational Complexity of Coin Flipping **Hemanta Maji** (University of Illinois, Urbana-Champaign) Title: Recent Progress in Leakage-Resilient Cryptography **Daniel Wichs** (New York University)	Room 1-315, FIT Building
12:00-14:00	Lunch		Wenjin Hotel
14:00-15:00	Session 4 Chair: Kevin Matulef	Title: Testing Function Isomorphism **Eric Blais** (Carnegie Mellon University) Title: Toward A Canonical Form for Boolean Function Property Testing Algorithms **Dana Dachman-Soled** (Columbia University)	Room 1-315, FIT Building
15:00-15:30	Coffee Break		Lobby of Room 1-315, FIT Building
15:30-16:30	Session 5 Chair: Christophe Tartary	Title: Learning Parities with Structured Noise **Rong Ge** (Princeton University) Title: Potential-Based Agnostic Boosting **Varun Kanade** (Harvard University)	Room 1-315, FIT Building
16:30-17:30	ITCS Showcase		

Wednesday September 15, 2010			
TIME	**ACTIVITIES**		**VENUE**
09:00-10:00	Keynote Talk 4 Chair: Johan Håstad	Title: Constructive Proofs of Concentration Bounds **Russell Impagliazzo** (Institute for Advanced Study, Princeton and University of California, San Diego)	Room 1-315, FIT Building
10:00-10:30	Coffee Break		Lobby of Room 1-315, FIT Building
10:30-12:00	Session 6 Chair: Joshua Brody	Title: New Balanced Search Trees **Siddhartha Sen** (Princeton University) Title: External Memory Data Structures with o(1)-I/O Updates **Qin Zhang** (University of Aarhus) Title: Vertex Sparsifiers and Oblivious Reductions **Ankur Moitra** (MIT)	Room 1-315, FIT Building
12:00-14:00	Lunch		Wenjin Hotel
14:00-15:00	Session 7 Chair: Iddo Tzameret	Title: Non-uniform Attacks Against One-way Functions and PRGs **Anindya De** (UC Berkeley) Title: An Invariance Principle for Polytopes **Raghu Meka** (UT Austin)	Room 1-315, FIT Building
15:00-15:30	Coffee Break		Lobby of Room 1-315, FIT Building
15:30-16:30	Session 8 Chair: Kevin Matulef	Title: A New Approach to Affine Extractors and Dispersers **Xin Li** (UT Austin) Title: Trevisan's Extractor in the Presence of Quantum Side Information **Thomas Vidick** (UC Berkeley)	Room 1-315, FIT Building
16:30-17:00	Discussion (open problems)		

Thursday September 16, 2010			
TIME	**ACTIVITIES**		**VENUE**
09:00-10:00	Keynote Talk 5 Chair: Maurice Herlihy	Title: Sparse Recovery Using Sparse Matrices (a tutorial) **Piotr Indyk** (MIT)	Room 1-315, FIT Building
10:00-10:30	Coffee Break		Lobby of Room 1-315, FIT Building
10:30-12:00	Session 9 Chair: Xiaoming Sun	Title: Towards Optimal Bayesian Algorithmic Mechanism Design **Zhiyi Huang** (University of Pennsylvania) Title: Single Parameter Combinatorial Auctions with Partially Public Valuations **Lei Wang** (Georgia Tech) Title: Rumor Spreading and Conductance **Silvio Lattanzi** (Sapienza University of Rome)	Room 1-315, FIT Building
12:00-14:00	Lunch		Wenjin Hotel
14:00-15:00	Session 10 Chair: Andrew Wan	Title: Matrix-valued Chernoff Bounds and Applications **Anastasios Zouzias** (University of Toronto) Title: Explicit Dimension Reduction and its Applications **Zohar Karnin** (Technion - Israel Institute of Technology)	Room 1-315, FIT Building
15:00-15:30	Coffee Break		Lobby of Room 1-315, FIT Building
15:30-16:30	Session 11 Chair: John Steinberger	Title: Fast Approximation Algorithms for Flow and Cut-based Problems in Undirected Graphs **Aleksander Madry** (MIT) Title: Achieving the Scaling Law of SNR-Monitoring in Dynamic Wireless Networks **Hongyi Yao** (Tsinghua University)	Room 1-315, FIT Building
16:30-17:00	Discussion		
17:00-17:30	Closing Ceremony		
18:00-20:00	Banquet		Quanjude Roast Duck Restaurant