

ICALP 2015 Track C Program

Monday 6 July 2015

Session 1 15:00-16:15 (ROOM5: Kurama)

Approximation

Chair: Martin Hoefer

- 15:00 Andreas Emil Feldmann
Fixed Parameter Approximations for k -Center Problems in Low Highway Dimension Graphs
- 15:25 Erez Kantor and Shay Kutten
Optimal Competitiveness for the Rectilinear Steiner Arborescence Problem
- 15:50 Søren Dahlgaard, Mathias Bæk Tejs Knudsen and Noy Rotbart
A Simple and Optimal Ancestry Labeling Scheme for Trees

Session 2 16:45-18:00 (ROOM3: Rose Room)

Track B and Track C Best Papers

Chair: Naoki Kobayashi

- 16:45 Yiannis Giannakopoulos and Elias Koutsoupias
Selling Two Goods Optimally
- 17:10 Jarkko Kari and Michal Szabados
(track B) *An Algebraic Geometric Approach to Nivat's Conjecture*
- 17:35 Georg Zetsche
(track B) *An Approach to Computing Downward Closures*

Tuesday 7 July 2015

Session 3 10:25-12:30 (ROOM5: Kurama)

Algorithmic Game Theory

Chair: Valerie King

- 10:25 Michal Feldman and Ophir Friedler
A Unified Framework for Strong Price of Anarchy in Clustering Games
- 10:50 Martin Gairing, Konstantinos Kollias and Grammateia Kotslou
Tight Bounds for Cost-Sharing in Weighted Congestion Games
- 11:15 Ning Chen, Martin Hoefer, Marvin Künnemann, Chengyu Lin and Peihan Miao
Secretary Markets with Local Information
- 11:40 Sayan Bhattacharya, Martin Hoefer, Chien-Chung Huang, Telikepalli Kavitha and Lisa Wagner
Maintaining Near-Popular Matchings

Session 4 15:00-17:05 (ROOM5: Kurama)

Scale-free Networks

Chair: Jared Saia

- 15:00 Karl Bringmann, Tobias Friedrich, Martin Hoefer, Ralf Rothenberger and Thomas Sauerwald
Ultra-Fast Load Balancing on Scale-Free Networks
- 15:25 Tobias Friedrich and Anton Krohmer
On the Diameter of Hyperbolic Random Graphs
- 15:50 Chen Avin, Zvi Lotker, Yinon Nahum and David Peleg
Core Size and Densification in Preferential Attachment Networks
- 16:15 Amin Karbasi, Johannes Lengler and Angelika Steger
Normalization Phenomena in Asynchronous Networks

Wednesday 8 July 2015

Session 5 10:25-12:05 (ROOM5: Kurama)

Random Processes

Chair: Taisuke Izumi

- 10:25 Dimitris Achlioptas and Paris Siminelakis
Symmetric Graph Properties Have Independent Edges
- 10:50 Bernadette Charron-Bost, Matthias Függer and Thomas Nowak
Approximate Consensus in Highly Dynamic Networks: The Role of Averaging Algorithms
- 11:15 Dan Alistarh and Rati Gelashvili
Polylogarithmic-Time Leader Election in Population Protocols
- 11:40 Shafi Goldwasser, Yael Tauman Kalai and Sunoo Park
Adaptively Secure Coin-Flipping, Revisited

Session 6 15:00-16:40 (ROOM5: Kurama)

Communication

Chair: David Peleg

- 15:00 Arkadev Chattopadhyay and Atri Rudra
The Range of Topological Effects on Communication
- 15:25 Varsha Dani, Mahnush Movahedi, Jared Saia and Maxwell Young
Interactive Communication with Unknown Noise Rate
- 15:50 Pavel Raykov
Broadcast from Minicast Secure Against General Adversaries
- 16:15 Mohsen Ghaffari
Distributed Broadcast Revisited: Towards Universal Optimality