

Table of Contents

Invited Talks

Computational Game Theory	1
<i>Bruno Codenotti</i>	
Computation and Incentives of Competitive Equilibria in a Matching Market	2
<i>Ning Chen and Xiaotie Deng</i>	

Session 1: Auctions and Advertising

Repeated Budgeted Second Price Ad Auction	7
<i>Asaph Arnon and Yishay Mansour</i>	
Prompt Mechanism for Ad Placement over Time	19
<i>Yossi Azar and Ety Khaitsin</i>	
The Multiple Attribution Problem in Pay-Per-Conversion Advertising	31
<i>Patrick Jordan, Mohammad Mahdian, Sergei Vassilvitskii, and Erik Vee</i>	
On Communication Protocols That Compute Almost Privately	44
<i>Marco Comi, Bhaskar DasGupta, Michael Schapira, and Venkatakumar Srinivasan</i>	

Session 2: Quality of Solutions

Dynamic Inefficiency: Anarchy without Stability	57
<i>Noam Berger, Michal Feldman, Ofer Neiman, and Mishael Rosenthal</i>	
Throw One's Cake — and Eat It Too	69
<i>Orit Arzi, Yonatan Aumann, and Yair Dombb</i>	
The Price of Optimum in a Matching Game	81
<i>Bruno Escoffier, Laurent Gourvès, and Jérôme Monnot</i>	
Pareto Optimality in Coalition Formation	93
<i>Haris Aziz, Felix Brandt, and Paul Harrenstein</i>	

Session 3: Externalities

Externalities among Advertisers in Sponsored Search	105
<i>Dimitris Fotakis, Piotr Krysta, and Orestis Telelis</i>	
Peer Effects and Stability in Matching Markets	117
<i>Elizabeth Bodine-Baron, Christina Lee, Anthony Chong, Babak Hassibi, and Adam Wierman</i>	
Steady Marginality: A Uniform Approach to Shapley Value for Games with Externalities	130
<i>Oskar Skibski</i>	

Session 4: Mechanism Design

Scheduling without Payments	143
<i>Elias Koutsoupias</i>	
Combinatorial Agency of Threshold Functions	154
<i>Shaili Jain and David C. Parkes</i>	
Lower Bound for Envy-Free and Truthful Makespan Approximation on Related Machines	166
<i>Lisa Fleischer and Zhenghui Wang</i>	
A Truthful Mechanism for Value-Based Scheduling in Cloud Computing	178
<i>Navendu Jain, Ishai Menache, Joseph (Seffi) Naor, and Jonathan Yaniv</i>	

Session 5: Complexity

Random Bimatrix Games Are Asymptotically Easy to Solve (A Simple Proof)	190
<i>Panagiota N. Panagopoulou and Paul G. Spirakis</i>	
Complexity of Rational and Irrational Nash Equilibria	200
<i>Vittorio Bilò and Marios Mavronicolas</i>	
Diffusion in Social Networks with Competing Products	212
<i>Krzysztof R. Apt and Evangelos Markakis</i>	

Session 6: Network Games

A Clustering Coefficient Network Formation Game	224
<i>Michael Brautbar and Michael Kearns</i>	

On the Existence of Pure Strategy Nash Equilibria in Integer-Splittable Weighted Congestion Games	236
<i>Long Tran-Thanh, Maria Polukarov, Archie Chapman, Alex Rogers, and Nicholas R. Jennings</i>	
On Dynamics in Basic Network Creation Games	254
<i>Pascal Lenzner</i>	
Session 7: Pricing	
Pricing Exotic Derivatives Using Regret Minimization	266
<i>Eyal Gofer and Yishay Mansour</i>	
Strategic Pricing in Next-Hop Routing with Elastic Demands	278
<i>Elliot Anshelevich, Ameya Hate, and Koushik Kar</i>	
Session 8: Routing Games	
Weakly-Acyclic (Internet) Routing Games	290
<i>Roe Engelberg and Michael Schapira</i>	
Efficiency of Restricted Tolls in Non-atomic Network Routing Games ...	302
<i>Vincenzo Bonifaci, Mahyar Salek, and Guido Schäfer</i>	
Stochastic Selfish Routing	314
<i>Evdokia Nikolova and Nicolas E. Stier-Moses</i>	
Author Index	327