

Friday June 22

8:00 – 9:00	Breakfast and Coffee (Park Atrium)		
9:00 – 12:30	Workshop: Frontiers of Market Design Organizers: <i>Alex Teytelboym and Mohammad Akbarpour</i>	Workshop on Opinion Aggregation, Dynamics, and Elicitation Organizers: <i>Yiling Chen, Vincent Conitzer, Ashish Goel, Kamesh Munagala</i>	2nd Workshop on Mechanism Design for Social Good Organizers: <i>Rediet Abebe and Kira Goldner</i>
12:30 – 2:00	Lunch (Carrier Ballroom)		
2:00 – 5:30	Workshop: Frontiers of Market Design (continued)	Workshop on Opinion Aggregation, Dynamics, and Elicitation (continued)	2nd Workshop on Mechanism Design for Social Good (continued)
LOCATION >	Room #265	Room #396	Room #196

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The 19th ACM Conference on Economics and Computation



TECHNICAL PROGRAM

Monday June 18

7:30 – 8:30	Breakfast and Coffee (Park Atrium)					
8:30 – 12:30	Mentoring Workshop: This is aimed to provide early-stage researchers the background, both from a technical and mentoring perspective, to start a successful research career in Algorithmic Game Theory. Organizers: <i>Nicole Immorlica, Ruta Mehta, and Matt Weinberg</i>	Tutorial: Emerging Research Directions Regarding Incentives and Cryptocurrencies Organizers: <i>Jacob Leshno, Arvind Narayanan, Georgios Piliouras, Alex Psomas, Matt Weinberg</i>	Tutorial: The Menu-Size of Precise and Approximate Revenue Maximizing Auctions Organizers: <i>Kira Goldner, Yannai Gonczarowski</i>	Tutorial: Information, Persuasion, and Decision making Organizers: <i>Bo Waggener, Haifeng Xu</i>		
12:30 – 2:00		Lunch (Carrier Ballroom)				
2:00 – 5:30		Tutorial: Algorithmic fairness Organizers: <i>Sam Corbett-Davies, Rachel Cummings, Sharad Goel, Jamie Morgenstern</i>	Tutorial: Gross substitutes: Combinatorial structure and algorithms Organizers: <i>Renato Paes Leme and Inbal Talgam-Cohen</i>	Tutorial: Industrial Organization Organizer: <i>Greg Lewis</i>		
LOCATION >	Room #196	Room #265	Room #396	Room #198		
6:00 – 8:00	Reception and Poster Session (Gates Hall)					

Tuesday June 19

8:15 – 9:00	Breakfast (Park Atrium)	
9:00 – 9:15	Opening (Statler Auditorium)	
9:15 – 10:15	Invited Talk (Statler Auditorium) Algorithmic Fairness and the Social Welfare Function <i>Sendhil Mullainathan (Harvard University)</i> Chair: <i>Jon Kleinberg</i>	
10:15 – 10:45	Coffee Break (Park Atrium)	
10:45 – 11:45	1A: Information Acquisition I (Statler Auditorium) Chair: <i>Sven Seuken</i>	1B: Sharing Economy (Room #196) Chair: <i>Augustin Chaintreau</i>
10:45	Strategyproof linear regression in high dimensions <i>Yiling Chen, Chara Podimata, Ariel Procaccia and Nisarg Shah</i>	Surge Pricing Moves Uber's Driver-Partners <i>Alice Lu, Peter Frazier and Oren Kislev</i>
11:05	Optimal data acquisition for statistical estimation <i>Yiling Chen, Nicole Immorlica, Brendan Lucier, Vasilis Syrgkanis and Juba Ziani</i>	The sharing economy and housing affordability: Evidence from Airbnb <i>Barron, Edward Kung and Davide Proserpio</i>
11:25	Optimal and Myopic Information Acquisition <i>Annie Liang, Xiaosheng Mu and Vasilis Syrgkanis</i>	Advertising strategy in the presence of reviews: an empirical analysis <i>Brett Hollenbeck, Sridhar Moorthy and Davide Proserpio</i>
11:45 – 11:55	10-minute Break	
11:55 – 12:55	2A: Information Acquisition II (Statler Auditorium) Chair: <i>Vincent Conitzer</i>	2B: Social Choice and Pricing (Room #196) Chair: <i>Ozan Candogan</i>
11:55	Learnability and models of decision making under uncertainty <i>Pathkrit Basu and Federico Echenique</i>	Consistent approval-based multi-winner rules <i>Martin Lackner and Piotr Skowron</i>
12:15	Strategic classification from revealed preferences <i>Jinshuo Dong, Aaron Roth, Zachary Schutzman, Bo Waggoner and Zhiwei Steven Wu</i>	Social choice with non-quasi linear utilities <i>Hongyao Ma, Reshef Meir and David C. Parkes</i>
12:35	Overabundant information and learning traps <i>Annie Liang and Xiaosheng Mu</i>	Optimal pricing and Introduction timing of new virtual machines <i>Ian Kash, Peter Key and Spyros Zoumpoulis</i>
12:55 – 2:25	Lunch (Carrier Ballroom)	

2:25 – 3:45	3A: Combinatorial Auctions (Statler Auditorium) Chair: <i>Yang Cai</i>	3B: Equilibria Computation (Room #196) Chair: <i>Ruta Mehta</i>
2:25	Combinatorial auctions with endowment effect <i>Moshe Babaioff, Shahar Dobzinski and Sigal Oren</i>	Computational complexity of proper equilibrium <i>Kristoffer Arnsfelt Hansen and Troels Bjerre Lund</i>
2:45	The Combinatorial clock auction: the effects of strategic behaviour and the price increment rule on social welfare <i>Max Dupre La Tour and Adrian Vetta</i>	Computing a subgame perfect equilibrium of a sequential matching game <i>Yasushi Kawase, Yutaro Yamaguchi and Yu Yokoi</i>
3:05	Designing core-selecting payment rules: A computational search approach <i>Benjamin Lubin, Benedikt Bunn and Sven Seuken</i>	The Big Match with a clock and a bit of memory <i>Kristoffer Arnsfelt Hansen, Rasmus Ibsen-Jensen and Abraham Neyman</i>
3:25	Fast core pricing for rich advertising auctions <i>Jason Hartline, Nicole Immorlica, Mohammad Reza Khani, Brendan Lucier and Rad Niazadeh</i>	Incremental strategy generation for Stackelberg equilibria in extensive-form Games <i>Jakub Cerny, Branislav Bosansky and Christopher Kiekintveld</i>
3:45 – 4:15	Coffee Break (Park Atrium)	
4:15 – 5:35	4A: Mechanism Design I (Statler Auditorium) Chair: <i>Nima Haghpahan</i>	4B: Information Acquisition and Rationality (Room #196) Chair: <i>Georgios Piliouras</i>
4:15	Non-clairvoyant dynamic mechanism design <i>Vahab Mirrokni, Renato Paes Leme, Pingzhong Tang and Song Zuo</i>	Water from two rocks: maximizing the mutual information <i>Yuqing Kong and Grant Schoenebeck</i>
4:35	Robust repeated auctions under heterogeneous buyer behavior <i>Shipra Agrawal, Constantinos Daskalakis, Vahab Mirrokni and Balasubramanian Sivan</i>	Eliciting expertise without verification <i>Yuqing Kong and Grant Schoenebeck</i>
4:55	A general theory of sample complexity for multi-item profit maximization <i>Maria-Florina Balcan, Tuomas Sandholm and Ellen Vitercik</i>	The one-shot crowdfunding game <i>Itai Arieli, Moran Koren and Rann Smorodinsky</i>
5:15	Are two (samples) really better than one? On the non-asymptotic performance of empirical revenue maximization <i>Moshe Babaioff, Yannai A. Gonczarowski, Yishay Mansour and Shay Moran</i>	Dancing pigs or externalities? Measuring the rationality of security decisions <i>Elissa M. Redmiles, Michelle L. Mazurek and John P. Dickerson</i>
6:00 – 7:00	Invited Talk (Statler Auditorium) Mechanism design challenges in cryptocurrency and blockchains <i>Vitalik Buterin (Ethereum Foundation)</i> Chair: <i>Glen Weyl</i>	

Wednesday June 20

8:00 – 9:00	Women in EC Breakfast Hosts: <i>Jamie Morgenstern and Rachel Cummings</i> (Carrier ballroom)	Breakfast (Park Atrium) Starts at 8:15
9:00 – 10:00	Invited Talk (Location: Statler Auditorium) High-Frequency Trading and the Design of Financial Exchanges: Will the Market Fix the Market? <i>Eric Budish (University of Chicago Booth School of Business)</i> Chair: <i>Edith Elkind</i>	
10:00 – 10:30	Coffee Break (Park Atrium)	
10:30 – 11:30	5A: Prophet Inequalities (Statler Auditorium) Chair: <i>Brendan Lucier</i>	5B: Matching (Room #196) Chair: <i>Nisarg Shah</i>
10:30	Delegated search approximates efficient search <i>Jon Kleinberg and Robert Kleinberg</i>	Almost optimal stochastic weighted matching with few queries <i>Soheil Behnezhad and Nima Reyhani</i>
10:50	Prophet secretary: surpassing the 1-1/e barrier <i>Yossi Azar, Ashish Chiplunkar and Haim Kaplan</i>	First-choice maximal and first-choice stable school choice mechanisms <i>Umut Dur, Timo Mennle and Sven Seuken</i>
11:10	Prophets and secretaries with overbooking <i>Tomer Ezra, Michal Feldman and Ilan Nehama</i>	Stable marriage with multi-modal preferences <i>Jiehua Chen, Rolf Niedermeier and Piotr Skowron</i>
11:30 – 11:40	10-minute Break	
11:40 – 12:30	Test of Time Award (Statler Auditorium) First Analyses of the Generalized Second Price Auction (GSP) for Sponsored Search <i>Hal R. Varian, Benjamin Edelman, Michael Ostrovsky, Michael Schwarz, Gagan Aggarwal, Ashish Goel, and the late Rajeev Motwani</i> Chair: <i>Tuomas Sandholm</i>	
12:30 – 2:00	Lunch (Carrier Ballroom)	
2:00 – 3:30	Business meeting (Statler Auditorium)	
3:30 – 4:30	6A: Mechanism Design II (Statler Auditorium) Chair: <i>Mohammad Mahdian</i>	6B: Equilibrium Dynamics (Room #196) Chair: <i>Aviad Rubinstein</i>
3:30	Interdependent values without single-crossing <i>Alon Eden, Michal Feldman, Amos Fiat and Kira Goldner</i>	Multiplicative weights update in zero-sum games <i>James Bailey and Georgios Piliouras</i>
3:50	Credible mechanisms <i>Mohammad Akbarpour and Shengwu Li</i>	Cycles in zero sum differential games and biological diversity <i>Tung Mai, Milena Mihail, Ioannis Panageas, Vijay Vazirani, Will Ratcliff and Peter Yunker</i>
4:10	The best of both worlds: asymptotically efficient mechanisms with a guarantee on the expected gains-from-trade <i>Moshe Babaioff, Yang Cai, Yannai A. Gonczarowski and Mingfei Zhao</i>	Dynamics of distributed updating in Fisher markets <i>Yun Kuen Cheung, Richard Cole and Yixin Tao</i>
4:30 – 5:00	Coffee Break (Park Atrium)	
5:00 – 6:00	7A: Mechanism Design III (Statler Auditorium) Chair: <i>Adrian Vetta</i>	7B: Equilibrium Analysis (Room #196) Chair: <i>Nicolas Stier</i>
5:00	Optimal deterministic mechanisms for an additive buyer <i>Moshe Babaioff, Noam Nisan and Aviad Rubinstein</i>	Network pricing: how to induce optimal flows under strategic link operators <i>Jose Correa, Cristobal Guzman, Thanasis Lianeas, Evdokia Nikolova and Marc Schroder</i>
5:20	Revenue loss in shrinking markets <i>Shahar Dobzinski and Nitzan Uziely</i>	Polynomial time equilibria in bottleneck congestion games <i>Costas Busch and Rajgopal Kannan</i>
5:40	99% Revenue via Enhanced Competition <i>Michal Feldman, Ophir Friedler and Aviad Rubinstein</i>	Spatio-temporal security games beyond one dimension <i>Soheil Behnezhad, Mahsa Derakhshan, Mohammadtaghi Hajiaghayi and Saeed Seddighin</i>
6:30	Conference Dinner (Duffield Atrium)	

Thursday June 21

8:15 – 9:00	Breakfast (Park Atrium)	
9:00 – 10:10	AGT Fest: Invited talks from conferences (Location: Statler Auditorium) Chair: <i>Nicole Immorlica</i>	
9:00	Safe and Nested Subgame Solving for Imperfect-Information Games , NIPS'17 <i>Noam Brown and Tuomas Sandholm</i>	
9:20	First-Price Auctions with General Information Structures: Implications for Bidding and Revenue , Econometrica <i>Dirk Bergemann, Ben Brooks and Stephen E. Morris</i>	
9:40	Welfare Guarantees from Data , NIPS'17 <i>Darrell Hoy, Denis Nekipelov, and Vasilis Syrgkanis</i>	
10:00-10:30	Coffee Break (Park Atrium)	
10:30-11:50	8A: Mechanism Design IV (Statler Auditorium) Chair: <i>Alex Slivkins</i>	8B: Market Experiments (Room #196) Chair: <i>Kevin Leyton-Brown</i>
10:30	The price of prior dependence in auctions <i>Pingzhong Tang and Yulong Zeng</i>	A/B testing <i>Eduardo Azevedo, Alex Deng, Jose Montiel Olea, Justin Rao and E. Glen Weyl</i>
10:50	Prior-independent optimal auctions <i>Omar Besbes and Amine Alouah</i>	A personalized BDM mechanism for efficient market intervention experiments <i>Imanol Arrieta Ibarra and Johan Ugander</i>
11:10	Learning to bid without knowing your value <i>Zhe Feng, Chara Podimata and Vasilis Syrgkanis</i>	The costs of entering through tying: experimental evidence <i>Hyunjin Kim and Michael Luca</i>
11:30	Selling to a no-regret buyer <i>Mark Braverman, Jieming Mao, Jon Schneider and S. Matthew Weinberg</i>	Reputation in the long-run <i>Apostolos Filippas, John Joseph Harton and Joseph Golden</i>
11:50 – 12:00	10-minute Break	
12:00 – 12:40	Dissertation Award (Location: Statler Auditorium) Hardness of Approximation Between P and NP <i>Aviad Rubinstein</i> Chair: <i>Nicole Immorlica</i>	
12:40 – 2:10	Lunch (Carrier Ballroom)	
2:10 – 3:30	9A: Fair Allocation (Statler Auditorium) Chair: <i>Omer Tamuz</i>	9B: Markets and Networks (Room #196) Chair: <i>Grant Schoenebeck</i>
2:10	Fair allocation of indivisible goods: improvements and Generalizations <i>Masoud Seddighin, Mohammad Ghodsi, Mohammadtaghi Hajiaghayi, Saeed Seddighin and Hadi Yami</i>	Redistribution through markets <i>Piotr Dworczak, Scott Duke Kominers and Mohammad Akbarpour</i>
2:30	Finding fair and efficient allocations <i>Siddharth Barman, Sanath Kumar Krishnamurthy and Rohit Vaish</i>	Optimal commissions and subscriptions in networked markets <i>John Birge, Ozan Candogan, Hongfan Chen and Daniela Saban</i>
2:50	Fair allocation of indivisible public goods <i>Brandon Fain, Kamesh Munagala and Nisarg Shah</i>	Trading networks with frictions <i>Tamas Fleiner, Ravi Jagadeesan, Zsuzsanna Janko and Alexander Teytelboym</i>
3:10	How to make envy vanish over time <i>Gerdus Benade, Aleksandr Kazachkov, Ariel Procaccia and Christos-Alexandros Psomas</i>	Chain stability in trading networks <i>John Hatfield, Scott Kominers, Alexandru Nichifor, Michael Ostrovsky and Alexander Westkamp</i>
3:30 – 4:00	Coffee Break (Park Atrium)	
4:00 – 5:20	10A: Learning and Social Networks (Statler Auditorium) Chair: <i>Hossein Esfandiari</i>	10B: Mechanism Design V (Room #196) Chair: <i>Inbal Talgam-Cohen</i>
4:00	Naive Bayesian learning in social networks <i>Jerry Anunrojwong and Nat Sothanaphan</i>	On the construction of substitutes <i>Eric Balkanski and Renato Paes Leme</i>
4:20	Bayesian social learning in a dynamic environment <i>Krishna Dasaratha, Benjamin Golub and Nir Hak</i>	Frugal auction design for set systems: vertex cover and knapsack <i>Mohammad Hajiaghayi, Mohammadreza Khani and Saeed Seddighin</i>
4:40	Social learning equilibria <i>Elchanan Mossel, Manuel Mueller Frank, Allan Sly and Omer Tamuz</i>	Matching auctions for search and native ads <i>Ruggiero Cavallo, Maxim Sviridenko and Christopher Wilkens</i>
5:00	Diffusion, seeding, and the value of network information <i>Mohammad Akbarpour, Suraj Malladi and Amin Saberi</i>	