

35th AAI Conference on Artificial Intelligence (AAAI-21)

Volume 6: AAI Technical Tracks

- Focus Areas on AI for Conference Organization and Delivery
- AI Responses to the COVID-19 Pandemic
- Neuro-Symbolic AI
- Game Theory and Economic Paradigms

Online

2 – 9 February 2021

Part 1 of 2

ISBN: 978-1-7138-3592-9

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2021) by Association for the Advancement of Artificial Intelligence
All rights reserved.

Printed with permission by Curran Associates, Inc. (2021)

For permission requests, please contact Association for the Advancement of Artificial Intelligence
at the address below.

Association for the Advancement of Artificial Intelligence
2275 East Bayshore Road
Suite 160
Palo Alto, California 94303
USA

Phone: 1-650-328-3123
Fax: 1-650-321-4457

<https://aaai.org/Press/press.php>

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

PART 1

AAAI TECHNICAL TRACK FOCUS AREA ON AI FOR CONFERENCE ORGANIZATION AND DELIVERY

ARGUMENT MINING DRIVEN ANALYSIS OF PEER-REVIEWS	4758
<i>Michael Fromm, Evgeniy Faerman, Max Berrendorf, Siddharth Bhargava, Ruoxia Qi, Yao Zhang, Lukas Dennert, Sophia Selle, Yang Mao, Thomas Seidl</i>	
UNCOVERING LATENT BIASES IN TEXT: METHOD AND APPLICATION TO PEER REVIEW	4767
<i>Emaad Manzoor, Nihar B. Shah</i>	
A MARKET-INSPIRED BIDDING SCHEME FOR PEER REVIEW PAPER ASSIGNMENT	4776
<i>Reshef Meir, Jérôme Lang, Julien Lesca, Nicholas Mattei, Natan Kaminsky</i>	
A NOVICE-REVIEWER EXPERIMENT TO ADDRESS SCARCITY OF QUALIFIED REVIEWERS IN LARGE CONFERENCES	4785
<i>Ivan Stelmakh, Nihar B. Shah, Aarti Singh, Hal Daumé III</i>	
CATCH ME IF I CAN: DETECTING STRATEGIC BEHAVIOUR IN PEER ASSESSMENT	4794
<i>Ivan Stelmakh, Nihar B. Shah, Aarti Singh</i>	

AAAI TECHNICAL TRACK FOCUS AREA ON AI RESPONSES TO THE COVID-19 PANDEMIC

SAVABLE BUT LOST LIVES WHEN ICU IS OVERLOADED: A MODEL FROM 733 PATIENTS IN EPICENTER WUHAN, CHINA	4804
<i>Tingting Dan, Yang Li, Ziwei Zhu, Xijie Chen, Wuxiu Quan, Yu Hu, Guihua Tao, Lei Zhu, Jijin Zhu, Hongmin Cai, Hanchun Wen</i>	
PERSISTENCE OF ANTI-VACCINE SENTIMENT IN SOCIAL NETWORKS THROUGH STRATEGIC INTERACTIONS	4812
<i>A S M Ahsan-Ul Haque, Mugdha Thakur, Matthew Bielskas, Achla Marathe, Anil Vullikanti</i>	
AUTOMATED MODEL DESIGN AND BENCHMARKING OF DEEP LEARNING MODELS FOR COVID-19 DETECTION WITH CHEST CT SCANS	4821
<i>Xin He, Shihao Wang, Xiaowen Chu, Shaohuai Shi, Jiangping Tang, Xin Liu, Chenggang Yan, Jiyong Zhang, Guiguang Ding</i>	
STELAR: SPATIO-TEMPORAL TENSOR FACTORIZATION WITH LATENT EPIDEMIOLOGICAL REGULARIZATION	4830
<i>Nikos Kargas, Cheng Qian, Nicholas D. Sidiropoulos, Cao Xiao, Lucas M. Glass, Jimeng Sun</i>	
TRANSFER GRAPH NEURAL NETWORKS FOR PANDEMIC FORECASTING	4838
<i>George Panagopoulos, Giannis Nikolentzos, Michalis Vazirgiannis</i>	
MINISEG: AN EXTREMELY MINIMUM NETWORK FOR EFFICIENT COVID-19 SEGMENTATION	4846
<i>Yu Qiu, Yun Liu, Shijie Li, Jing Xu</i>	

STEERING A HISTORICAL DISEASE FORECASTING MODEL UNDER A PANDEMIC: CASE OF FLU AND COVID-19	4855
<i>Alexander Rodríguez, Nikhil Muralidhar, Bijaya Adhikari, Anika Tabassum, Naren Ramakrishnan, B. Aditya Prakash</i>	
GAINING INSIGHT INTO SARS-COV-2 INFECTION AND COVID-19 SEVERITY USING SELF-SUPERVISED EDGE FEATURES AND GRAPH NEURAL NETWORKS	4864
<i>Arijit Sehanobish, Neal Ravindra, David van Dijk</i>	
CONTEXT MATTERS: GRAPH-BASED SELF-SUPERVISED REPRESENTATION LEARNING FOR MEDICAL IMAGES	4874
<i>Li Sun, Ke Yu, Kayhan Batmanghelich</i>	
TRACKING DISEASE OUTBREAKS FROM SPARSE DATA WITH BAYESIAN INFERENCE	4883
<i>Bryan Wilder, Michael Mina, Milind Tambe</i>	
C-WATCHER: A FRAMEWORK FOR EARLY DETECTION OF HIGH-RISK NEIGHBORHOODS AHEAD OF COVID-19 OUTBREAK	4892
<i>Congxi Xiao, Jingbo Zhou, Jizhou Huang, An Zhuo, Ji Liu, Haoyi Xiong, Dejing Dou</i>	
<u>AAAI TECHNICAL TRACK FOCUS AREA ON NEURO-SYMBOLIC AI</u>	
CONVERSATIONAL NEURO-SYMBOLIC COMMONSENSE REASONING	4902
<i>Forough Arabshahi, Jennifer Lee, Mikayla Gawarecki, Kathryn Mazaitis, Amos Azaria, Tom Mitchell</i>	
INTERPRETABLE ACTIONS: CONTROLLING EXPERTS WITH UNDERSTANDABLE COMMANDS	4912
<i>Shumeet Baluja, David Marwood, Michele Covell</i>	
DYNAMIC NEURO-SYMBOLIC KNOWLEDGE GRAPH CONSTRUCTION FOR ZERO- SHOT COMMONSENSE QUESTION ANSWERING	4923
<i>Antoine Bosselut, Ronan Le Bras, Yejin Choi</i>	
ALIGNING ARTIFICIAL NEURAL NETWORKS AND ONTOLOGIES TOWARDS EXPLAINABLE AI	4932
<i>Manuel de Sousa Ribeiro, João Leite</i>	
PLANNING FROM PIXELS IN ATARI WITH LEARNED SYMBOLIC REPRESENTATIONS	4941
<i>Andrea Dittadi, Frederik K. Drachmann, Thomas Bolander</i>	
LEARNING GAME-THEORETIC MODELS OF MULTIAGENT TRAJECTORIES USING IMPLICIT LAYERS	4950
<i>Philipp Geiger, Christoph-Nikolas Straehle</i>	
LEARNING BY FIXING: SOLVING MATH WORD PROBLEMS WITH WEAK SUPERVISION	4959
<i>Yining Hong, Qing Li, Daniel Ciao, Siyuan Huang, Song-Chun Zhu</i>	
ANSWERING COMPLEX QUERIES IN KNOWLEDGE GRAPHS WITH BIDIRECTIONAL SEQUENCE ENCODERS	4968
<i>Bhushan Kotnis, Carolin Lawrence, Mathias Niepert</i>	

SELF-SUPERVISED SELF-SUPERVISION BY COMBINING DEEP LEARNING AND PROBABILISTIC LOGIC	4978
<i>Hunter Lang, Hoifung Poon</i>	
EXPLAINING NEURAL MATRIX FACTORIZATION WITH GRADIENT ROLLBACK	4987
<i>Carolin Lawrence, Timo Sztyler, Mathias Niepert</i>	
A SCALABLE REASONING AND LEARNING APPROACH FOR NEURAL-SYMBOLIC STREAM FUSION	4996
<i>Danh Le-Phuoc, Thomas Eiter, Anh Le-Tuan</i>	
RECOGNIZING AND VERIFYING MATHEMATICAL EQUATIONS USING MULTIPLICATIVE DIFFERENTIAL NEURAL UNITS	5006
<i>Ankur Mali, Alexander G. Ororbia, Daniel Kifer, C. Lee Giles</i>	
A UNIFIED FRAMEWORK FOR PLANNING WITH LEARNED NEURAL NETWORK TRANSITION MODELS	5016
<i>Buser Say</i>	
CLASSIFICATION BY ATTENTION: SCENE GRAPH CLASSIFICATION WITH PRIOR KNOWLEDGE	5025
<i>Sahand Sharifzadeh, Sina Moayed Baharlou, Volker Tresp</i>	
DIFFERENTIABLE INDUCTIVE LOGIC PROGRAMMING FOR STRUCTURED EXAMPLES	5034
<i>Hikaru Shindo, Masaaki Nishino, Akihiro Yamamoto</i>	
ENCODING HUMAN DOMAIN KNOWLEDGE TO WARM START REINFORCEMENT LEARNING	5042
<i>Andrew Silva, Matthew Gombolay</i>	
NEURAL-SYMBOLIC INTEGRATION: A COMPOSITIONAL PERSPECTIVE	5051
<i>Efthymia Tsamoura, Timothy Hospedales, Loizos Michael</i>	
ADAPTIVE TEACHING OF TEMPORAL LOGIC FORMULAS TO PREFERENCE-BASED LEARNERS	5061
<i>Zhe Xu, Yuxin Chen, Ufuk Topcu</i>	

AAAI TECHNICAL TRACK ON GAME THEORY AND ECONOMIC PARADIGMS

DOUBLE ORACLE ALGORITHM FOR COMPUTING EQUILIBRIA IN CONTINUOUS GAMES	5070
<i>Lukáš Adam, Rostislav Horčík, Tomáš Kasl, Tomáš Kroupa</i>	
A FEW QUERIES GO A LONG WAY: INFORMATION-DISTORTION TRADEOFFS IN MATCHING	5078
<i>Georgios Amanatidis, Georgios Birmpas, Aris Filos-Ratsikas, Alexandros A. Voudouris</i>	
REPRESENTATIVE PROXY VOTING	5086
<i>Elliot Anshelevich, Zack Fitzsimmons, Rohit Vaish, Lirong Xia</i>	
FORMING BETTER STABLE SOLUTIONS IN GROUP FORMATION GAMES INSPIRED BY INTERNET EXCHANGE POINTS (IXPS)	5094
<i>Elliot Anshelevich, Wennan Zhu</i>	

ACHIEVING ENVY-FREENESS AND EQUITABILITY WITH MONETARY TRANSFERS	5102
<i>Haris Aziz</i>	
PROPORTIONALLY REPRESENTATIVE PARTICIPATORY BUDGETING WITH ORDINAL PREFERENCES	5110
<i>Haris Aziz, Barton E. Lee</i>	
FAIR AND TRUTHFUL MECHANISMS FOR DICHOTOMOUS VALUATIONS	5119
<i>Moshe Babaioff, Tomer Ezra, Uriel Feige</i>	
BAYESIAN PERSUASION UNDER EX ANTE AND EX POST CONSTRAINTS	5127
<i>Yakov Babichenko, Inbal Talgam-Cohen, Konstantin Zabarnyi</i>	
DEFENDING AGAINST CONTAGIOUS ATTACKS ON A NETWORK WITH RESOURCE REALLOCATION	5135
<i>Rufan Bai, Haoxing Lin, Xinyu Yang, Xiaowei Wu, Minming Li, Weijia Jia</i>	
ACHIEVING PROPORTIONALITY UP TO THE MAXIMIN ITEM WITH INDIVISIBLE GOODS	5143
<i>Artem Baklanov, Pranav Garimidi, Vasilis Gkatzelis, Daniel Schoepflin</i>	
THE PRICE OF CONNECTIVITY IN FAIR DIVISION	5151
<i>Xiaohui Bei, Ayumi Igarashi, Xinhang Lu, Warut Suksompong</i>	
DIVIDING A GRAPHICAL CAKE	5159
<i>Xiaohui Bei, Warut Suksompong</i>	
MAXIMIN FAIRNESS WITH MIXED DIVISIBLE AND INDIVISIBLE GOODS	5167
<i>Xiaohui Bei, Shengxin Liu, Xinhang Lu, Hongao Wang</i>	
PROTECTING THE PROTECTED GROUP: CIRCUMVENTING HARMFUL FAIRNESS	5176
<i>Omer Ben-Porat, Fedor Sandomirskiy, Moshe Tennenholtz</i>	
SELFISH CREATION OF SOCIAL NETWORKS	5185
<i>Davide Bilò, Tobias Friedrich, Pascal Lenzner, Stefanie Lowski, Anna Melnichenko</i>	
ON THE COMPLEXITY OF FINDING JUSTIFICATIONS FOR COLLECTIVE DECISIONS	5194
<i>Arthur Boixel, Ronald de Haan</i>	
PRESERVING CONDORCET WINNERS UNDER STRATEGIC MANIPULATION	5202
<i>Sirin Botan, Ulle Endriss</i>	
REACHING INDIVIDUALLY STABLE COALITION STRUCTURES IN HEDONIC GAMES	5211
<i>Felix Brandt, Martin Bullinger, Anaëlle Wilczynski</i>	
REINFORCEMENT LEARNING OF SEQUENTIAL PRICE MECHANISMS	5219
<i>Gianluca Brero, Alon Eden, Matthias Gerstgrasser, David Parkes, Duncan Rheimans-Yoo</i>	
MARGIN OF VICTORY IN TOURNAMENTS: STRUCTURAL AND EXPERIMENTAL RESULTS	5228
<i>Markus Brill, Ulrike Schmidt-Kraepelin, Warut Suksompong</i>	
WELFARE GUARANTEES IN SCHELLING SEGREGATION	5236
<i>Martin Bullinger, Warut Suksompong, Alexandros A. Voudouris</i>	
PERSUADING VOTERS IN DISTRICT-BASED ELECTIONS	5244
<i>Matteo Castiglioni, Nicola Gatti</i>	

SIGNALING IN BAYESIAN NETWORK CONGESTION GAMES: THE SUBTLE POWER OF SYMMETRY	5252
<i>Matteo Castiglioni, Andrea Celli, Alberto Marchesi, Nicola Gatti</i>	
COMPUTING QUANTAL STACKELBERG EQUILIBRIUM IN EXTENSIVE-FORM GAMES	5260
<i>Jakub Černý, Viliam Lisý, Branislav Bošanský, Bo An</i>	
FAIR AND EFFICIENT ALLOCATIONS UNDER SUBADDITIVE VALUATIONS	5269
<i>Bhaskar Ray Chaudhury, Jugal Garg, Ruta Mehta</i>	
SCALABLE EQUILIBRIUM COMPUTATION IN MULTI-AGENT INFLUENCE GAMES ON NETWORKS	5277
<i>Fotini Christia, Michael Curry, Constantinos Daskalakis, Erik Demaine, John P. Dickerson, MohammadTaghi Hajiaghayi, Adam Hesterberg, Marina Knittel, Aidan Milliff</i>	
PROPORTIONAL REPRESENTATION UNDER SINGLE-CROSSING PREFERENCES REVISITED	5286
<i>Andrei Costin Constantinescu, Edith Elkind</i>	
COMPUTATIONAL ANALYSES OF THE ELECTORAL COLLEGE: CAMPAIGNING IS HARD BUT APPROXIMATELY MANAGEABLE	5294
<i>Sina Dehghani, Hamed Saleh, Saeed Seddighin, Shang-Hua Teng</i>	
PART 2	
MODEL-SHARING GAMES: ANALYZING FEDERATED LEARNING UNDER VOLUNTARY PARTICIPATION	5303
<i>Kate Donahue, Jon Kleinberg</i>	
ON FAIR DIVISION UNDER HETEROGENEOUS MATROID CONSTRAINTS	5312
<i>Amitay Dror, Michal Feldman, Erel Segal-Halevi</i>	
POA OF SIMPLE AUCTIONS WITH INTERDEPENDENT VALUES	5321
<i>Alon Eden, Michal Feldman, Inbal Talgam-Cohen, Ori Zviran</i>	
MIND THE GAP: CAKE CUTTING WITH SEPARATION	5330
<i>Edith Elkind, Erel Segal-Halevi, Warut Suksompong</i>	
UNITED FOR CHANGE: DELIBERATIVE COALITION FORMATION TO CHANGE THE STATUS QUO	5339
<i>Edith Elkind, Davide Grossi, Ehud Shapiro, Nimrod Talmon</i>	
INCENTIVIZING TRUTHFULNESS THROUGH AUDITS IN STRATEGIC CLASSIFICATION	5347
<i>Andrew Estornell, Sanmay Das, Yevgeniy Vorobeychik</i>	
ALMOST ENVY-FREENESS, ENVY-RANK, AND NASH SOCIAL WELFARE MATCHINGS	5355
<i>Alireza Farhadi, MohammadTaghi Hajiaghayi, Mohamad Latifian, Masoud Seddighin, Hadi Yami</i>	
FASTER GAME SOLVING VIA PREDICTIVE BLACKWELL APPROACHABILITY: CONNECTING REGRET MATCHING AND MIRROR DESCENT	5363
<i>Gabriele Farina, Christian Kroer, Tuomas Sandholm</i>	

BANDIT LINEAR OPTIMIZATION FOR SEQUENTIAL DECISION MAKING AND EXTENSIVE-FORM GAMES	5372
<i>Gabriele Farina, Robin Schmucker, Tuomas Sandholm</i>	
MODEL-FREE ONLINE LEARNING IN UNKNOWN SEQUENTIAL DECISION MAKING PROBLEMS AND GAMES	5381
<i>Gabriele Farina, Tuomas Sandholm</i>	
SIMULTANEOUS 2ND PRICE ITEM AUCTIONS WITH NO-UNDERBIDDING	5391
<i>Michal Feldman, Galia Shabtai</i>	
CONVERGENCE ANALYSIS OF NO-REGRET BIDDING ALGORITHMS IN REPEATED AUCTIONS	5399
<i>Zhe Feng, Guru Guruganesh, Christopher Liaw, Aranyak Mehta, Abhishek Sethi</i>	
CONDORCET RELAXATION IN SPATIAL VOTING	5407
<i>Arnold Filtser, Omrit Filtser</i>	
PRESENT-BIASED OPTIMIZATION	5415
<i>Fedor V. Fomin, Pierre Fraigniaud, Petr A. Golovach</i>	
EFFICIENT TRUTHFUL SCHEDULING AND RESOURCE ALLOCATION THROUGH MONITORING	5423
<i>Dimitris Fotakis, Piotr Krysta, Carmine Ventre</i>	
INFINITE-DIMENSIONAL FISHER MARKETS: EQUILIBRIUM, DUALITY AND OPTIMIZATION	5432
<i>Yuan Gao, Christian Kroer</i>	
FAIR AND EFFICIENT ONLINE ALLOCATIONS WITH NORMALIZED VALUATIONS	5440
<i>Vasilis Gkatzelis, Alexandros Psomas, Xizhi Tan</i>	
AN ANALYSIS OF APPROVAL-BASED COMMITTEE RULES FOR 2D-EUCLIDEAN ELECTIONS	5448
<i>Michał T. Godziszewski, Paweł Batko, Piotr Skowron, Piotr Faliszewski</i>	
AGGREGATING BINARY JUDGMENTS RANKED BY ACCURACY	5456
<i>Daniel Halpern, Gregory Kehne, Dominik Peters, Ariel D. Procaccia, Nisarg Shah, Piotr Skowron</i>	
DISTRICT-FAIR PARTICIPATORY BUDGETING	5464
<i>D Ellis Hershkowitz, Anson Kahng, Dominik Peters, Ariel D. Procaccia</i>	
FAIR AND EFFICIENT ALLOCATIONS UNDER LEXICOGRAPHIC PREFERENCES	5472
<i>Hadi Hosseini, Sujoy Sikdar, Rohit Vaish, Lirong Xia</i>	
NECESSARILY OPTIMAL ONE-SIDED MATCHINGS	5481
<i>Hadi Hosseini, Vijay Menon, Nisarg Shah, Sujoy Sikdar</i>	
COMPUTING THE PROPORTIONAL VETO CORE	5489
<i>Egor Ianovski, Aleksei Y. Kondratev</i>	
MULTI-SCALE GAMES: REPRESENTING AND SOLVING GAMES ON NETWORKS WITH GROUP STRUCTURE	5497
<i>Kun Jin, Yevgeniy Vorobeychik, Mingyan Liu</i>	

MULTI-PARTY CAMPAIGNING	5506
<i>Martin Koutecký, Nimrod Talmon</i>	
CLASSIFICATION WITH STRATEGICALLY WITHHELD DATA	5514
<i>Anilesh K. Krishnaswamy, Haoming Li, David Rein, Hanrui Zhang, Vincent Conitzer</i>	
ON THE PTAS FOR MAXIMIN SHARES IN AN INDIVISIBLE MIXED MANNA	5523
<i>Rucha Kulkarni, Ruta Mehta, Setareh Taki</i>	
EVOLUTION STRATEGIES FOR APPROXIMATE SOLUTION OF BAYESIAN GAMES	5531
<i>Zun Li, Michael P. Wellman</i>	
SAFE SEARCH FOR STACKELBERG EQUILIBRIA IN EXTENSIVE-FORM GAMES	5541
<i>Chun Kai Ling, Noam Brown</i>	
BUDGET FEASIBLE MECHANISMS OVER GRAPHS	5549
<i>Xiang Liu, Weiwei Wu, Minming Li, Wanyuan Wang</i>	
ON THE APPROXIMATION OF NASH EQUILIBRIA IN SPARSE WIN-LOSE MULTI- PLAYER GAMES	5557
<i>Zhengyang Liu, Jiawei Li, Xiaotie Deng</i>	
TREMBLING-HAND PERFECTION AND CORRELATION IN SEQUENTIAL GAMES	5566
<i>Alberto Marchesi, Nicola Gatti</i>	
COMPLEXITY AND ALGORITHMS FOR EXPLOITING QUANTAL OPPONENTS IN LARGE TWO-PLAYER GAMES	5575
<i>David Milec, Jakub Černý, Viliam Lisý, Bo An</i>	
HINDSIGHT AND SEQUENTIAL RATIONALITY OF CORRELATED PLAY	5584
<i>Dustin Morrill, Ryan D'Orazio, Reza Sarfati, Marc Lanctot, James R Wright, Amy R Greenwald, Michael Bowling</i>	
ON FAIR AND EFFICIENT ALLOCATIONS OF INDIVISIBLE GOODS	5595
<i>Aniket Murhekar, Jugal Garg</i>	
COALITION FORMATION IN MULTI-DEFENDER SECURITY GAMES	5603
<i>Dolev Mutzari, Jiarui Gan, Sarit Kraus</i>	
MAJORITY OPINION DIFFUSION IN SOCIAL NETWORKS: AN ADVERSARIAL APPROACH	5611
<i>Ahad N. Zehmakan</i>	
FAIR AND EFFICIENT ALLOCATIONS WITH LIMITED DEMANDS	5620
<i>Sushirdeep Narayana, Ian A. Kash</i>	
SCARCE SOCIETAL RESOURCE ALLOCATION AND THE PRICE OF (LOCAL) JUSTICE	5628
<i>Quan Nguyen, Sanmay Das, Roman Garnett</i>	
FROM BEHAVIORAL THEORIES TO ECONOMETRICS: INFERRING PREFERENCES OF HUMAN AGENTS FROM DATA ON REPEATED INTERACTIONS	5637
<i>Gali Noti</i>	
PREFERENCE ELICITATION AS AVERAGE-CASE SORTING	5647
<i>Dominik Peters, Ariel D. Procaccia</i>	

MARKET-BASED EXPLANATIONS OF COLLECTIVE DECISIONS	5656
<i>Dominik Peters, Grzegorz Pierczyński, Nisarg Shah, Piotr Skowron</i>	
A PERMUTATION-EQUIVARIANT NEURAL NETWORK ARCHITECTURE FOR AUCTION DESIGN	5664
<i>Jad Rahme, Samy Jelassi, Joan Bruna, S. Matthew Weinberg</i>	
ESTIMATING A-RANK BY MAXIMIZING INFORMATION GAIN	5673
<i>Tabish Rashid, Cheng Zhang, Kamil Ciosek</i>	
ONLINE POSTED PRICING WITH UNKNOWN TIME-DISCOUNTED VALUATIONS	5682
<i>Giulia Romano, Gianluca Tartaglia, Alberto Marchesi, Nicola Gatti</i>	
THE MAXIMIN SUPPORT METHOD: AN EXTENSION OF THE D'HONDT METHOD TO APPROVAL-BASED MULTIWINNER ELECTIONS	5690
<i>Luis Sánchez-Fernández, Norberto Fernández García, Jesús A. Fisteus, Markus Brill</i>	
SOLUTION CONCEPTS IN HIERARCHICAL GAMES UNDER BOUNDED RATIONALITY WITH APPLICATIONS TO AUTONOMOUS DRIVING	5698
<i>Atrisha Sarkar, Krzysztof Czarnecki</i>	
MODELING VOTERS IN MULTI-WINNER APPROVAL VOTING	5709
<i>Jaelle Scheuerman, Jason Harman, Nicholas Mattei, K. Brent Venable</i>	
COUPON DESIGN IN ADVERTISING SYSTEMS	5717
<i>Weiran Shen, Pingzhong Tang, Xun Wang, Yadong Xu, Xiwang Yang</i>	
RESTRICTED DOMAINS OF DICHOTOMOUS PREFERENCES WITH POSSIBLY INCOMPLETE INFORMATION	5726
<i>Zoi Terzopoulou, Alexander Karpov, Svetlana Obraztsova</i>	
FACILITY'S PERSPECTIVE TO FAIR FACILITY LOCATION PROBLEMS	5734
<i>Chenhao Wang, Xiaoying Wu, Minming Li, Hau Chan</i>	
THE SMOOTHED COMPLEXITY OF COMPUTING KEMENY AND SLATER RANKINGS	5742
<i>Lirong Xia, Weiqiang Zheng</i>	
IF YOU LIKE SHAPLEY THEN YOU'LL LOVE THE CORE	5751
<i>Tom Yan, Ariel D. Procaccia</i>	
A MODEL OF WINNERS ALLOCATION	5760
<i>Yongjie Yang</i>	
TARGETED NEGATIVE CAMPAIGNING: COMPLEXITY AND APPROXIMATIONS	5768
<i>Avishai Zagoury, Orgad Keller, Avinatan Hassidim, Noam Hazon</i>	
FINDING AND CERTIFYING (NEAR-)OPTIMAL STRATEGIES IN BLACK-BOX EXTENSIVE-FORM GAMES	5779
<i>Brian Hu Zhang, Tuomas Sandholm</i>	
AUTOMATED MECHANISM DESIGN FOR CLASSIFICATION WITH PARTIAL VERIFICATION	5789
<i>Hanrui Zhang, Yu Cheng, Vincent Conitzer</i>	
INCENTIVE-AWARE PAC LEARNING	5797
<i>Hanrui Zhang, Vincent Conitzer</i>	

CLASSIFICATION WITH FEW TESTS THROUGH SELF-SELECTION	5805
<i>Hanrui Zhang, Yu Cheng, Vincent Conitzer</i>	
COMPUTING EX ANTE COORDINATED TEAM-MAXMIN EQUILIBRIA IN ZERO-SUM MULTIPLAYER EXTENSIVE-FORM GAMES	5813
<i>Youzhi Zhang, Bo An, Jakub Černý</i>	
POWER IN LIQUID DEMOCRACY	5822
<i>Yuzhe Zhang, Davide Grossi</i>	

Author Index