

38th AAAI Conference on Artificial Intelligence (AAAI-24), 36th Conference on Innovative Applications of Artificial Intelligence (IAAI-24), 14th Symposium on Educational Advances in Artificial Intelligence (EAAI-24)

Volume 9: AAAI Technical Tracks

- Game Theory and Economic Paradigms
- Humans and AI
- Intelligent Robots
- Knowledge Representation and Reasoning

Vancouver, Canada
20 – 27 February 2024

Part 1 of 2

ISBN: 979-8-3313-0091-3

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© (2024) by Association for the Advancement of Artificial Intelligence
All rights reserved.

Printed with permission by Curran Associates, Inc. (2024)

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 ON GAME THEORY AND ECONOMIC PARADIGMS

Analytically Tractable Models for Decision Making Under Present Bias.....	9441
<i>Yasunori Akagi, Naoki Marumo, Takeshi Kurashima</i>	
Optimistic Policy Gradient in Multi-Player Markov Games with a Single Controller: Convergence Beyond the Minty Property	9451
<i>Ioannis Anagnostides, Ioannis Panageas, Gabriele Farina, Tuomas Sandholm</i>	
Improved Metric Distortion Via Threshold Approvals.....	9460
<i>Elliot Anshelevich, Aris Filos-Ratsikas, Christopher Jerrett, Alexandros A. Voudouris</i>	
Fair Lotteries for Participatory Budgeting.....	9469
<i>Haris Aziz, Xinhang Lu, Mashbat Suzuki, Jeremy Vollen, Toby Walsh</i>	
Envy-Free House Allocation Under Uncertain Preferences	9477
<i>Haris Aziz, Isaiah Iliffe, Bo Li, Angus Ritossa, Ankan Sun, Mashbat Suzuki</i>	
Content Filtering with Inattentive Information Consumers.....	9485
<i>Ian Ball, James Bono, Justin Grana, Nicole Immorlica, Brendan Lucier, Aleksandrs Slivkins</i>	
Nearly Equitable Allocations Beyond Additivity and Monotonicity	9494
<i>Siddharth Barman, Umang Bhaskar, Yeshwant Pandit, Soumyajit Pyne</i>	
Principal-Agent Reward Shaping in MDPs.....	9502
<i>Omer Ben-Porat, Yishay Mansour, Michal Moshkovitz, Boaz Taitler</i>	
Enhancing the Efficiency of Altruism and Taxes in Affine Congestion Games Through Signalling	9511
<i>Vittorio Bilò, Cosimo Vinci</i>	
Approval-Based Committee Voting in Practice: A Case Study of (over-)Representation in the Polkadot Blockchain.....	9519
<i>Niclas Boehmer, Markus Brill, Alfonso Cevallos, Jonas Gehrlein, Luis Sánchez-Fernández, Ulrike Schmidt-Kraepelin</i>	
Completing Priceable Committees: Utilitarian and Representation Guarantees for Proportional Multiwinner Voting.....	9528
<i>Markus Brill, Jannik Peters</i>	
Stability in Online Coalition Formation	9537
<i>Martin Bullinger, René Romen</i>	
Participation Incentives in Approval-Based Committee Elections	9546
<i>Martin Bullinger, Chris Dong, Patrick Lederer, Clara Mehler</i>	
Low-Distortion Clustering with Ordinal and Limited Cardinal Information.....	9555
<i>Jakob Burkhardt, Ioannis Caragiannis, Karl Fehrs, Matteo Russo, Chris Schwegelshohn, Sudarshan Shyam</i>	

Efficient Learning in Polyhedral Games Via Best-Response Oracles	9564
<i>Darshan Chakrabarti, Gabriele Farina, Christian Kroer</i>	
Proportional Aggregation of Preferences for Sequential Decision Making.....	9573
<i>Nikhil Chandak, Shashwat Goel, Dominik Peters</i>	
How to Make Knockout Tournaments More Popular?	9582
<i>Juhi Chaudhary, Hendrik Molter, Meirav Zehavi</i>	
1/2-Approximate MMS Allocation for Separable Piecewise Linear Concave Valuations.....	9590
<i>Chandra Chekuri, Pooja Kulkarni, Rucha Kulkarni, Ruta Mehta</i>	
Dynamic Budget Throttling in Repeated Second-Price Auctions.....	9598
<i>Zhaohua Chen, Chang Wang, Qian Wang, Yuqi Pan, Zhuming Shi, Zheng Cai, Yukun Ren, Zihua Zhu, Xiaotie Deng</i>	
The Complexity of Computing Robust Mediated Equilibria in Ordinal Games	9607
<i>Vincent Conitzer</i>	
Learning Discrete-Time Major-Minor Mean Field Games.....	9616
<i>Kai Cui, Gökçe Dayanıklı, Mathieu Laurière, Matthieu Geist, Olivier Pietquin, Heinz Koepl</i>	
Automated Design of Affine Maximizer Mechanisms in Dynamic Settings.....	9626
<i>Michael Curry, Vinzenz Thoma, Darshan Chakrabarti, Stephen McAleer, Christian Kroer, Tuomas Sandholm, Niao He, Sven Seuken</i>	
How to Evaluate Behavioral Models	9636
<i>Greg d'Eon, Sophie Greenwood, Kevin Leyton-Brown, James R. Wright</i>	
Independence of Irrelevant Alternatives Under the Lens of Pairwise Distortion	9645
<i>Théo Delemazure, Jérôme Lang, Grzegorz Pierczyński</i>	
The Complexity of Fair Division of Indivisible Items with Externalities	9653
<i>Argyrios Deligkas, Eduard Eiben, Viktoriia Korchemna, Šimon Schierreich</i>	
Competition Among Pairwise Lottery Contests	9662
<i>Xiaotie Deng, Hangxin Gan, Ningyuan Li, Weian Li, Qi Qi</i>	
Refined Characterizations of Approval-Based Committee Scoring Rules	9670
<i>Chris Dong, Patrick Lederer</i>	
Implications of Distance Over Redistricting Maps: Central and Outlier Maps	9679
<i>Seyed A. Esmaeili, Darshan Chakrabarti, Hayley Grape, Brian Brubach</i>	
On Optimal Tradeoffs Between EFX and Nash Welfare	9688
<i>Michal Feldman, Simon Murras, Tomasz Ponitka</i>	
Manipulation-Robust Selection of Citizens' Assemblies.....	9696
<i>Bailey Flanigan, Jennifer Liang, Ariel D. Procaccia, Sven Wang</i>	
Project-Fair and Truthful Mechanisms for Budget Aggregation	9704
<i>Rupert Freeman, Ulrike Schmidt-Kraepelin</i>	
Maxileximin Envy Allocations and Connected Goods.....	9713
<i>Gianluigi Greco, Francesco Scarcello</i>	

Information Design for Congestion Games with Unknown Demand.....	9722
<i>Svenja M. Griesbach, Martin Hoefer, Max Klimm, Tim Koglin</i>	
Zero-Sum Games Between Mean-Field Teams: Reachability-Based Analysis Under Mean-Field Sharing	9731
<i>Yue Guan, Mohammad Afshari, Panagiotis Tsiotras</i>	
Worst-Case VCG Redistribution Mechanism Design Based on the Lottery Ticket Hypothesis.....	9740
<i>Mingyu Guo</i>	
An Exercise in Tournament Design: When Some Matches Must Be Scheduled.....	9749
<i>Sushmita Gupta, Ramanujan Sridharan, Peter Strulo</i>	
Regret Analysis of Repeated Delegated Choice	9757
<i>Mohammad Hajiaghayi, Mohammad Mahdavi, Keivan Rezaei, Suho Shin</i>	
Cost Minimization for Equilibrium Transition.....	9765
<i>Haoqiang Huang, Zihe Wang, Zhide Wei, Jie Zhang</i>	
Reachability of Fair Allocations Via Sequential Exchanges.....	9773
<i>Ayumi Igarashi, Naoyuki Kamiyama, Warut Suksompong, Sheung Man Yuen</i>	
Repeated Fair Allocation of Indivisible Items	9781
<i>Ayumi Igarashi, Martin Lackner, Oliviero Nardi, Arianna Novaro</i>	
Spatial Voting with Incomplete Voter Information	9790
<i>Aviram Imber, Jonas Israel, Markus Brill, Hadas Shachnai, Benny Kimelfeld</i>	
Maximizing Nash Social Welfare Under Two-Sided Preferences	9798
<i>Pallavi Jain, Rohit Vaish</i>	
Optimal Mechanism in a Dynamic Stochastic Knapsack Environment	9807
<i>Jihyeok Jung, Chan-Oi Song, Deok-Joo Lee, Kiho Yoon</i>	
Proportional Representation in Metric Spaces and Low-Distortion Committee Selection.....	9815
<i>Yusuf Kalayci, David Kempe, Vikram Kher</i>	
Towards Optimal Subsidy Bounds for Envy-Freeable Allocations	9824
<i>Yasushi Kawase, Kazuhisa Makino, Hanna Sumita, Akihisa Tamura, Makoto Yokoo</i>	
Strategyproof Mechanisms for Group-Fair Obnoxious Facility Location Problems.....	9832
<i>Jiaqian Li, Minming Li, Hau Chan</i>	
Opponent-Model Search in Games with Incomplete Information.....	9840
<i>Junkang Li, Bruno Zanuttini, Véronique Ventos</i>	
Double Auction on Diffusion Network.....	9848
<i>Miao Li, Yuhan Cao, Dengji Zhao</i>	
Pay to (Not) Play: Monetizing Impatience in Mobile Games.....	9856
<i>Taylor Lundy, Narun Raman, Hu Fu, Kevin Leyton-Brown</i>	
Weighted Envy-Freeness for Submodular Valuations	9865
<i>Luisa Montanari, Ulrike Schmidt-Kraepelin, Warut Suksompong, Nicholas Teh</i>	
Computing Nash Equilibria in Potential Games with Private Uncoupled Constraints	9874
<i>Nikolas Patris, Stelios Stavroulakis, Fivos Kalogiannis, Rose Zhang, Ioannis Panageas</i>	

Peer Neighborhood Mechanisms: A Framework for Mechanism Generalization.....	9883
<i>Adam Richardson, Boi Faltings</i>	
Machine Learning-Powered Combinatorial Clock Auction	9891
<i>Ermis Nikiforos Soumalias, Jakob Weissteiner, Jakob Heiss, Sven Seuken</i>	
Almost Envy-Free Allocations of Indivisible Goods Or Chores with Entitlements	9901
<i>Max Springer, MohammadTaghi Hajiaghayi, Hadi Yami</i>	
The Moderating Effect of Instant Runoff Voting.....	9909
<i>Kiran Tomlinson, Johan Ugander, Jon Kleinberg</i>	
Unravelling Expressive Delegations: Complexity and Normative Analysis	9918
<i>Giannis Tyrovolas, Andrei Constantinescu, Edith Elkind</i>	
Predicting Real-World Penny Auction Durations by Integrating Game Theory and Machine Learning	9926
<i>Yujia Wang, Haoran Yu</i>	
Simultaneous Optimization of Bid Shading and Internal Auction for Demand-Side Platforms.....	9935
<i>Yadong Xu, Bonan Ni, Weiran Shen, Xun Wang, Zichen Wang, Yinsong Xue, Pingzhong Tang</i>	
Learning Coalition Structures with Games.....	9944
<i>Yixuan Even Xu, Chun Kai Ling, Fei Fang</i>	
Non-Excludable Bilateral Trade Between Groups.....	9952
<i>Yixuan Even Xu, Hanrui Zhang, Vincent Conitzer</i>	
Greedy-Based Online Fair Allocation with Adversarial Input: Enabling Best-Of-Many-Worlds Guarantees.....	9960
<i>Zongjun Yang, Luofeng Liao, Christian Kroer</i>	
On the Outcome Equivalence of Extensive-Form and Behavioral Correlated Equilibria	9969
<i>Brian Hu Zhang, Tuomas Sandholm</i>	
Eliciting Honest Information from Authors Using Sequential Review	9977
<i>Yichi Zhang, Grant Schoenebeck, Weijie Su</i>	
Fair Allocation of Items in Multiple Regions	9985
<i>Houyu Zhou, Tianze Wei, Biaoshuai Tao, Minming Li</i>	
Altruism in Facility Location Problems	9993
<i>Houyu Zhou, Hau Chan, Minming Li</i>	

AAAI TECHNICAL TRACK ON HUMANS AND AI

Explaining Reinforcement Learning Agents Through Counterfactual Action Outcomes.....	10003
<i>Yotam Amitai, Yael Septon, Ofra Amir</i>	
Data-Driven Knowledge-Aware Inference of Private Information in Continuous Double Auctions.....	10012
<i>Lvyue Cui, Haoran Yu</i>	
Procedural Level Generation with Diffusion Models from a Single Example	10021
<i>Shiqi Dai, Xuanyu Zhu, Naiqi Li, Tao Dai, Zhi Wang</i>	

When Are Two Lists Better than One?: Benefits and Harms in Joint Decision-Making	10030
<i>Kate Donahue, Sreenivas Gollapudi, Kostas Kollias</i>	
A Local-Ascending-Global Learning Strategy for Brain-Computer Interface	10039
<i>Dongrui Gao, Haokai Zhang, Pengrui Li, Tian Tang, Shihong Liu, Zhihong Zhou, Shaofei Ying, Ye Zhu, Yongqing Zhang</i>	
Working Memory Capacity of ChatGPT: An Empirical Study.....	10048
<i>Dongyu Gong, Xingchen Wan, Dingmin Wang</i>	
Count What You Want: Exemplar Identification and Few-Shot Counting of Human Actions in the Wild	10057
<i>Yifeng Huang, Duc Duy Nguyen, Lam Nguyen, Cuong Pham, Minh Hoai</i>	
Learning Optimal Advantage from Preferences and Mistaking it for Reward	10066
<i>W. Bradley Knox, Stephane Hatgis-Kessell, Sigurdur Orn Adalgeirsson, Serena Booth, Anca Dragan, Peter Stone, Scott Niekum</i>	
A Unified Self-Distillation Framework for Multimodal Sentiment Analysis with Uncertain Missing Modalities	10074
<i>Mingcheng Li, Dingkang Yang, Yuxuan Lei, Shunli Wang, Shuaibing Wang, Liuzhen Su, Kun Yang, Yuzheng Wang, Mingyang Sun, Lihua Zhang</i>	
Decoding AI’s Nudge: A Unified Framework to Predict Human Behavior in AI-Assisted Decision Making	10083
<i>Zhuoyan Li, Zhuoran Lu, Ming Yin</i>	
GigaHumanDet: Exploring Full-Body Detection on Gigapixel-Level Images.....	10092
<i>Chenglong Liu, Haoran Wei, Jinze Yang, Jintao Liu, Wenxi Li, Yuchen Guo, Lu Fang</i>	

PART 2

Hypergraph-Guided Disentangled Spectrum Transformer Networks for Near-Infrared Facial Expression Recognition.....	10101
<i>Bingjun Luo, Haowen Wang, Jinpeng Wang, Junjie Zhu, Xibin Zhao, Yue Gao</i>	
Goal Alignment: Re-Analyzing Value Alignment Problems Using Human-Aware AI.....	10110
<i>Malek Mechergui, Sarath Sreedharan</i>	
Efficient Online Crowdsourcing with Complex Annotations	10119
<i>Reshef Meir, Viet-An Nguyen, Xu Chen, Jagdish Ramakrishnan, Udi Weinsberg</i>	
Can You Rely on Synthetic Labellers in Preference-Based Reinforcement Learning? It’s Complicated.....	10128
<i>Katherine Metcalf, Miguel Sarabia, Masha Fedzechkina, Barry-John Theobald</i>	
When to Show a Suggestion? Integrating Human Feedback in AI-Assisted Programming	10137
<i>Hussein Mozannar, Gagan Bansal, Adam Fourney, Eric Horvitz</i>	
Improving Transferability for Cross-Domain Trajectory Prediction Via Neural Stochastic Differential Equation	10145
<i>Daehee Park, Jaewoo Jeong, Kuk-Jin Yoon</i>	
Exploring Domain Incremental Video Highlights Detection with the LiveFood Benchmark	10155
<i>Sen Pei, Shixiong Xu, Xiaojie Jin</i>	

Sample-Constrained Black Box Optimization for Audio Personalization.....	10164
<i>Rajalaxmi Rajagopalan, Yu-Lin Wei, Romit Roy Choudhury</i>	
Intelligent Calibration for Bias Reduction in Sentiment Corpora Annotation Process.....	10172
<i>Idan Token, David Sarne, Jonathan Schler</i>	
TransGOP: Transformer-Based Gaze Object Prediction	10180
<i>Binglu Wang, Chenxi Guo, Yang Jin, Haisheng Xia, Nian Liu</i>	
Visual Redundancy Removal for Composite Images: A Benchmark Dataset and a Multi-Visual-Effects Driven Incremental Method	10189
<i>Miaohui Wang, Rong Zhang, Lirong Huang, Yanshan Li</i>	
TexFit: Text-Driven Fashion Image Editing with Diffusion Models.....	10198
<i>Tongxin Wang, Mang Ye</i>	
Rating-Based Reinforcement Learning	10207
<i>Devin White, Mingkang Wu, Ellen Novoseller, Vernon J. Lawhern, Nicholas Waytowich, Yongcan Cao</i>	
MKG-FENN: A Multimodal Knowledge Graph Fused End-To-End Neural Network for Accurate Drug-Drug Interaction Prediction	10216
<i>Di Wu, Wu Sun, Yi He, Zhong Chen, Xin Luo</i>	
Spatial-Related Sensors Matters: 3D Human Motion Reconstruction Assisted with Textual Semantics	10225
<i>Xueyuan Yang, Chao Yao, Xiaojuan Ban</i>	
Scalable Motion Style Transfer with Constrained Diffusion Generation	10234
<i>Wenjie Yin, Yi Yu, Hang Yin, Danica Kragic, Mårten Björkman</i>	
‘Why Didn’t You Allocate This Task to Them?’ Negotiation-Aware Task Allocation and Contrastive Explanation Generation.....	10243
<i>Zahra Zahedi, Sailik Sengupta, Subbarao Kambhampati</i>	
Beyond Mimicking Under-Represented Emotions: Deep Data Augmentation with Emotional Subspace Constraints for EEG-Based Emotion Recognition	10252
<i>Zhi Zhang, Shenghua Zhong, Yan Liu</i>	
MetaRLEC: Meta-Reinforcement Learning for Discovery of Brain Effective Connectivity.....	10261
<i>Zuozhen Zhang, Junzhong Ji, Jinduo Liu</i>	
DanceMVP: Self-Supervised Learning for Multi-Task Primitive-Based Dance Performance Assessment Via Transformer Text Prompting	10270
<i>Yun Zhong, Yiannis Demiris</i>	
 <u>INTELLIGENT ROBOTS (ROB)</u>	
Optimal Makespan in a Minute Timespan! a Scalable Multi-Robot Goal Assignment Algorithm for Minimizing Mission Time	10280
<i>Aakash , Indranil Saha</i>	
On Computing Makespan-Optimal Solutions for Generalized Sliding-Tile Puzzles.....	10288
<i>Marcus Gozon, Jingjin Yu</i>	

Interactive Visual Task Learning for Robots	10297
<i>Weiwei Gu, Anant Sah, Nakul Gopalan</i>	
DexFuncGrasp: A Robotic Dexterous Functional Grasp Dataset Constructed from a Cost-Effective Real-Simulation Annotation System	10306
<i>Jinglue Hang, Xiangbo Lin, Tianqiang Zhu, Xuanheng Li, Rina Wu, Xiaohong Ma, Yi Sun</i>	
LINGO-Space: Language-Conditioned Incremental Grounding for Space.....	10314
<i>Dohyun Kim, Nayoung Oh, Deokmin Hwang, Daehyung Park</i>	
CTO-SLAM: Contour Tracking for Object-Level Robust 4D SLAM.....	10323
<i>Xiaohan Li, Dong Liu, Jun Wu</i>	
BAT: Behavior-Aware Human-Like Trajectory Prediction for Autonomous Driving	10332
<i>Haicheng Liao, Zhenning Li, Huanming Shen, Wenxuan Zeng, Dongping Liao, Guofa Li, Chengzhong Xu</i>	
Deep Homography Estimation for Visual Place Recognition.....	10341
<i>Feng Lu, Shuting Dong, Lijun Zhang, Bingxi Liu, Xiangyuan Lan, Dongmei Jiang, Chun Yuan</i>	
Task Planning for Object Rearrangement in Multi-Room Environments.....	10350
<i>Karan Mirakhori, Sourav Ghosh, Dipanjan Das, Brojeshwar Bhowmick</i>	
Hierarchical Planning and Learning for Robots in Stochastic Settings Using Zero-Shot Option Invention.....	10358
<i>Naman Shah, Siddharth Srivastava</i>	
MorphVAE: Advancing Morphological Design of Voxel-Based Soft Robots with Variational Autoencoders.....	10368
<i>Junru Song, Yang Yang, Wei Peng, Weien Zhou, Feifei Wang, Wen Yao</i>	
DistilVPR: Cross-Modal Knowledge Distillation for Visual Place Recognition.....	10377
<i>Sijie Wang, Rui She, Qiyu Kang, Xingchao Jian, Kai Zhao, Yang Song, Wee Peng Tay</i>	
Angle Robustness Unmanned Aerial Vehicle Navigation in GNSS-Denied Scenarios	10386
<i>Yuxin Wang, Zunlei Feng, Haofei Zhang, Yang Gao, Jie Lei, Li Sun, Mingli Song</i>	
Learning from Ambiguous Demonstrations with Self-Explanation Guided Reinforcement Learning.....	10395
<i>Yantian Zha, Lin Guan, Subbarao Kambhampati</i>	
Multi-Constellation-Inspired Single-Shot Global LiDAR Localization.....	10404
<i>Tongzhou Zhang, Gang Wang, Yu Chen, Hai Zhang, Jue Hu</i>	
DeepPointMap: Advancing LiDAR SLAM with Unified Neural Descriptors	10413
<i>Xiaze Zhang, Ziheng Ding, Qi Jing, Yuejie Zhang, Wenchao Ding, Rui Feng</i>	

AAAI TECHNICAL TRACK ON KNOWLEDGE REPRESENTATION AND REASONING

Complexity of Credulous and Skeptical Acceptance in Epistemic Argumentation Framework.....	10423
<i>Gianvincenzo Alfano, Sergio Greco, Francesco Parisi, Irina Trubitsyna</i>	
Approximation Algorithms for Preference Aggregation Using CP-Nets.....	10433
<i>Abu Mohammad Hammad Ali, Boting Yang, Sandra Zilles</i>	
What Does a Query Answer Tell You? Informativeness of Query Answers for Knowledge Bases.....	10442
<i>Luca Andolfi, Gianluca Cima, Marco Console, Maurizio Lenzerini</i>	

Defeasible Normative Reasoning: A Proof-Theoretic Integration of Logical Argumentation.....	10450
<i>Ofer Arieli, Kees van Berkel, Christian Straßer</i>	
Computing the Why-Provenance for Datalog Queries Via SAT Solvers.....	10459
<i>Marco Calautti, Ester Livshits, Andreas Pieris, Markus Schneider</i>	
Generalisation Through Negation and Predicate Invention.....	10467
<i>David M. Cerna, Andrew Cropper</i>	
Learning Small Decision Trees for Data of Low Rank-Width	10476
<i>Konrad K. Dabrowski, Eduard Eiben, Sebastian Ordyniak, Giacomo Paesani, Stefan Szeider</i>	
Stable Model Semantics for Description Logic Terminologies	10484
<i>Federica Di Stefano, Mantas Šimkus</i>	
Redefining ABA+ Semantics Via Abstract Set-To-Set Attacks	10493
<i>Yannis Dimopoulos, Wolfgang Dvorak, Matthias König, Anna Rapberger, Markus Ulbricht, Stefan Woltran</i>	
Towards Epistemic-Doxastic Planning with Observation and Revision.....	10501
<i>Thorsten Engesser, Andreas Herzig, Elise Perrotin</i>	
Dynamic Tangled Derivative Logic of Metric Spaces.....	10509
<i>David Fernández-Duque, Yoàv Montacute</i>	
Submodel Enumeration for CTL is Hard.....	10517
<i>Nicolas Fröhlich, Arne Meier</i>	
Linear-Time Verification of Data-Aware Processes Modulo Theories Via Covers and Automata	10525
<i>Alessandro Gianola, Marco Montali, Sarah Winkler</i>	
On the Structural Hardness of Answer Set Programming: Can Structure Efficiently Confine the Power of Disjunctions?.....	10535
<i>Markus Hecher, Rafael Kiesel</i>	
Knowledge Enhanced Representation Learning for Drug Discovery.....	10544
<i>Thanh Lam Hoang, Marco Luca Sbodio, Marcos Martinez Galindo, Mykhaylo Zayats, Raul Fernandez-Diaz, Victor Valls, Gabriele Picco, Cesar Berrospi, Vanessa Lopez</i>	
Learning MDL Logic Programs from Noisy Data.....	10553
<i>Céline Hocquette, Andreas Niskanen, Matti Järvisalo, Andrew Cropper</i>	
A Compiler for Weak Decomposable Negation Normal Form.....	10562
<i>Petr Illner, Petr Kučera</i>	
Exact ASP Counting with Compact Encodings.....	10571
<i>Mohimenu Kabir, Supratik Chakraborty, Kuldeep S. Meel</i>	
Minimal Macro-Based Rewritings of Formal Languages: Theory and Applications in Ontology Engineering (and Beyond).....	10581
<i>Christian Kindermann, Anne-Marie George, Bijan Parsia, Uli Sattler</i>	
On the Expressivity of Recurrent Neural Cascades.....	10589
<i>Nadezda Alexandrovna Knorozova, Alessandro Ronca</i>	

Efficient Axiomatization of OWL 2 EL Ontologies from Data by Means of Formal Concept Analysis.....	10597
<i>Francesco Kriegel</i>	
BAIT: Benchmarking (Embedding) Architectures for Interactive Theorem-Proving.....	10607
<i>Sean Lamont, Michael Norrish, Amir Dezfouli, Christian Walder, Paul Montague</i>	
INFORMEDQX: Informed Conflict Detection for Over-Constrained Problems	10616
<i>Viet-Man Le, Alexander Felfernig, Thi Ngoc Trang Tran, Mathias Uta</i>	
Abstraction of Situation Calculus Concurrent Game Structures	10624
<i>Yves Lesperance, Giuseppe De Giacomo, Maryam Rostamigiv, Shakil M. Khan</i>	
Relational Programming with Foundational Models.....	10635
<i>Ziyang Li, Jiani Huang, Jason Liu, Felix Zhu, Eric Zhao, William Dodds, Neelay Velingker, Rajeev Alur, Mayur Naik</i>	
MINES: Message Intercommunication for Inductive Relation Reasoning Over Neighbor-Enhanced Subgraphs	10645
<i>Ke Liang, Lingyuan Meng, Sihang Zhou, Wenxuan Tu, Siwei Wang, Yue Liu, Meng Liu, Long Zhao, Xiangjun Dong, Xinwang Liu</i>	
Auditable Algorithms for Approximate Model Counting.....	10654
<i>Kuldeep S. Meel, Supratik Chakraborty, S. Akshay</i>	
A General Theoretical Framework for Learning Smallest Interpretable Models.....	10662
<i>Sebastian Ordyniak, Giacomo Paesani, Mateusz Rychlicki, Stefan Szeider</i>	
Reinforcement Learning and Data-Generation for Syntax-Guided Synthesis	10670
<i>Julian Parsert, Elizabeth Polgreen</i>	
Adaptive Reactive Synthesis for LTL and LTLf Modulo Theories.....	10679
<i>Andoni Rodríguez, César Sánchez</i>	
A Unified View on Forgetting and Strong Equivalence Notions in Answer Set Programming.....	10687
<i>Zeynep G. Saribatur, Stefan Woltran</i>	
BeliefFlow: A Framework for Logic-Based Belief Diffusion Via Iterated Belief Change	10696
<i>Nicolas Schwind, Katsumi Inoue, Sébastien Konieczny, Pierre Marquis</i>	
NegVSR: Augmenting Negatives for Generalized Noise Modeling in Real-World Video Super-Resolution.....	10705
<i>Yexing Song, Meilin Wang, Zhijing Yang, Xiaoyu Xian, Yukai Shi</i>	
Scalable Enumeration of Trap Spaces in Boolean Networks Via Answer Set Programming	10714
<i>Giang Trinh, Belaid Benhamou, Samuel Pastva, Sylvain Soliman</i>	
Non-Flat ABA is an Instance of Bipolar Argumentation	10723
<i>Markus Ulbricht, Nico Potyka, Anna Rapberger, Francesca Toni</i>	
Bilateral Gradual Semantics for Weighted Argumentation.....	10732
<i>Zongshun Wang, Yuping Shen</i>	
Decomposing Constraint Networks for Calculating c-Representations	10740
<i>Marco Wilhelm, Gabriele Kern-Isberner</i>	

Optimised Storage for Datalog Reasoning 10748
Xinyue Zhang, Pan Hu, Yavor Nenov, Ian Horrocks

Author Index