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- RDPD: Rich Data Helps Poor Data via Imitation: Shenda Hong, Cao Xiao, Nghia Hoang, Tengfei Ma, Hongyan Li, Jimeng Sun
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- Scribble-to-Painting Transformation with Multi-Task Generative Adversarial Networks: Jinning Li, Yexiang Xue
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- Who Should Pay the Cost: A Game-theoretic Model for Government Subsidized Investments to Improve National Cybersecurity: Xinrun Wang, Bo An, Hau Chan

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- A comparative study of distributional and symbolic paradigms for relational learning: Sebastijan Dumancic, Alberto Garcia-Duran, Mathias Niepert
- EL Embeddings: Geometric Construction of Models for the Description Logic EL<sup>++</sup>: Maxat Kulmanov, Wang Liu-Wei, Yuan Yan, Robert Hoehndorf
- How Well Do Machines Perform on IQ tests: a Comparison Study on a Large-Scale Dataset: Yusen Liu, Fangyuan He, Haodi Zhang, Guozheng Rao, Zhiyong Feng, Yi Zhou
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- Playgol: Learning Programs Through Play: Andrew Cropper
- Synthesizing Datalog Programs using Numerical Relaxation: Xujie Si, Mukund Raghothaman, Kihong Heo, Mayur Naik

## Survey track

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- A Replication Study of Semantics in Argumentation: Leila Amgoud
- A Survey of Reinforcement Learning Informed by Natural Language: Jelena Luketina<sup>✉</sup>, Nantas Nardelli, Gregory Farquhar, Jakob Foerster, Jacob Andreas, Edward Grefenstett, Shimon Whiteson, Tim Rocktäschel
- A Survey on Hierarchical Planning - One Abstract Idea, Many Concrete Realizations: Pascal Bercher, Ron Alford, Daniel Höller
- Automated Essay Scoring: A Survey of the State of the Art: Zixuan Ke, Vincent Ng
- Counterfactuals in Explainable Artificial Intelligence (XAI): Evidence from Human Reasoning: Ruth M. J. Byrne
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- Integrating Knowledge and Reasoning in Image Understanding: Somak Aditya, Yezhou Yang, Chitta Baral
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- Leveraging Human Guidance for Deep Reinforcement Learning Tasks: Ruohan Zhang, Faraz Torabi, Lin Guan, Dana H. Ballard, Peter Stone
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- Sequential Recommender Systems: Challenges, Progress and Prospects: Shoujin Wang, Liang Hu, Yan Wang, Longbing Cao, Michael Sheng, Mehmet Orgun
- Social Media-based User Embedding: A Literature Review: Shimei Pan, Tao Ding

## Journal track

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- A Core Method for the Weak Completion Semantics with Skeptical Abduction (Extended Abstract): Steffen Hölldobler

- Complexity Bounds for the Controllability of Temporal Networks with Conditions, Disjunctions, and Uncertainty (Extended Abstract): Nikhil Bhargava, Brian C. Williams
- Complexity of fundamental problems in probabilistic abstract argumentation: beyond independence (Extended Abstract): Bettina Fazzinga, Sergio Flesca, Filippo Furfaro
- Implicitly Coordinated Multi-Agent Path Finding under Destination Uncertainty: Success Guarantees and Computational Complexity (Extended Abstract): Bernhard Nebel, Thomas Bolander, Thorsten Engesser, Robert Mattmüller
- Learning in the Machine: Random Backpropagation and the Deep Learning Channel (Extended Abstract): Peter Sadowski, Pierre Baldi, Zhiqin Lu
- On the Responsibility for Undecisiveness in Preferred and Stable Labellings in Abstract Argumentation (Extended Abstract): Claudia Schulz, Francesca Toni
- Shielded Base Contraction (Extended Abstract): Marco Garapa, Eduardo Fermé, Maurício Reis
- Teaching AI Ethical Values Through Policy Orchestration: Ritesh Noothigattu, Djallel Bouneffouf, Nicholas Mattei, Rachita Chandra, Piyush Madan, Kush R. Varshney, Murray Campbell, Moninder Singh, Francesca Rossi

## Best Sister Conferences

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- A Dual Approach to Verify and Train Deep Networks: Sven Gowal, Krishnamurthy Dvijotham, Robert Stanforth, Timothy Mann, Pushmeet Kohli
- A Refined Understanding of Cost-optimal Planning with Polytree Causal Graphs (Extended Abstract): Christer Bäckström, Peter Jonsson, Sebastian Ordyniak
- A Walkthrough for the Principle of Logit Separation: Gil Keren, Sivan Sabato, Björn Schuller
- Addressing Age-Related Bias in Sentiment Analysis: Mark Diaz, Isaac Johnson, Amanda Lazar, Anne Marie Piper, Darren Gergle
- Adversarial Attacks on Neural Networks for Graph Data: Daniel Zügner, Amir Akbarnejad, Stephan Günnemann
- Causal Embeddings for Recommendation: An Extended Abstract: Flavian Vasile, Stephen Bonner
- Closed-World Semantics for Conjunctive Queries with Negation over ELH-bottom Ontologies (Extended Abstract): Stefan Borgwardt, Walter Forkel
- Constraint Games for stable and optimal allocation of demands in SDN: Arnaud Lallouet, Anthony Palmieri, Luc Pons
- Delayed Impact of Fair Machine Learning: Lydia T. Liu, Sarah Dean, Esther Rolf, Max Simchowitz, Moritz Hardt
- Differentiable Physics and Stable Modes for Tool-Use and Manipulation Planning -- Extended Abstract: Marc Toussaint, Kelsey R. Allen, Kevin A. Smith, Joshua B. Tenenbaum
- Discovering Reliable Dependencies from Data: Hardness and Improved Algorithms (Extended Abstract): Panagiotis Mandros, Mario Boley, Jilles Vreeken
- Do We Need Many-valued Logics for Incomplete Information?: Marco Console, Paolo Guagliardo, Leonid Libkin
- Impact of Consuming Suggested Items on the Assessment of Recommendations in User Studies on Recommender Systems: Benedikt Loepp, Tim Donkers, Timm Kleemann, Jürgen Ziegler
- Meta-Interpretive Learning Using HEX-Programs: Tobias Kaminski, Thomas Eiter, Katsumi Inoue
- Not All FPRASs are Equal: Demystifying FPRASs for DNF-Counting (Extended Abstract): Kuldeep S. Meel, Aditya Aniruddha Shrotri, Moshe Y. Vardi
- On Causal Identification under Markov Equivalence: Amin Jaber, Jiji Zhang, Elias Bareinboim
- On Guiding Search in HTN Planning with Classical Planning Heuristics: Daniel Höller, Pascal Bercher, Gregor Behnke, Susanne Biundo
- Optimally Efficient Bidirectional Search: Ariel Felner, Eshed Shaham, Nathan R. Sturtevant, Jeffrey

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- Quality Control Attack Schemes in Crowdsourcing: Alessandro Checco, Jo Bates, Gianluca Demartini
- Sharpness of the Satisfiability Threshold for Non-Uniform Random k-SAT: Tobias Friedrich, Ralf Rothenberger
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- The Power of Context in Networks: Ideal Point Models with Social Interactions (Extended Abstract): Mohammad Irfan, Tucker Gordon
- The Provable Virtue of Laziness in Motion Planning [Extended Abstract]: Nika Haghtalab, Simon Mackenzie, Ariel D. Procaccia, Oren Salzman, Siddhartha Srinivasa
- Trust Dynamics and Transfer across Human-Robot Interaction Tasks: Experiments and Computational Models: Harold Soh, Shu Pan, Min Chen, David Hsu

## Demos

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- A Mobile Application for Sound Event Detection: Yingwei Fu, Kele Xu, Haibo Mi, Huaimin Wang, Dezhi Wang, Boqing Zhu
- A Quantitative Analysis Platform for PD-L1 Immunohistochemistry based on Point-level Supervision Model: Haibo Mi, Kele Xu, Dawei Feng, Huaimin Wang, Yang Xiang, Yulin He, Chun Wu, Yanming Song, Xiaolei Sun
- ACTA: A Tool for Argumentative Clinical Trial Analysis: Tobias Mayer, Elena Cabrio, Serena Villata
- Agent-based Decision Support for Pain Management in Primary Care Settings: Xu Guo, Han Yu, Chunyan Miao, Yiqiang Chen
- AiD-EM: Adaptive Decision Support for Electricity Markets Negotiations: Tiago Pinto, Zita Vale
- An Online Intelligent Visual Interaction System: Anxiang Zeng, Han Yu, Xin Gao, Kairi Ou, Zhenchuan Huang, Peng Hou, Mingli Song, Jingshu Zhang, Chunyan Miao
- AntProphet: an Intention Mining System behind Alipay's Intelligent Customer Service Bot: Cen Chen, Xiaolu Zhang, Sheng Ju, Chilin Fu, Caizhi Tang, Jun Zhou, Xiaolong Li
- ATTENet: Detecting and Explaining Suspicious Tax Evasion Groups: Qinghua Zheng, Yating Lin, Huan He, Jianfei Ruan, Bo Dong
- Contextual Typeahead Sticker Suggestions on Hike Messenger: Mohamed Hanoosh, Abhishek Laddha, Debodoot Mukherjee
- CoTrRank: Trust Evaluation of Users and Tweets: Peiyao Li, Weiliang Zhao, Jian Yang, Jia Wu
- Crowd View: Converting Investors' Opinions into Indicators: Chung-Chi Chen, Hen-Hsen Huang, Hsin-Hsi Chen
- CRSRL: Customer Routing System using Reinforcement Learning: Chong Long, Zining Liu, Xiaolu Lu, Zehong Hu, Yafang Wang
- Deep Reinforcement Learning for Ride-sharing Dispatching and Repositioning: Zhiwei (Tony) Qin, Xiaocheng Tang, Yan Jiao, Fan Zhang, Chenxi Wang
- DeepRec: An Open-source Toolkit for Deep Learning based Recommendation: Shuai Zhang, Yi Tay, Lina Yao, Bin Wu, Aixin Sun
- Demonstration of PerformanceNet: A Convolutional Neural Network Model for Score-to-Audio Music Generation: Yu-Hua Chen, Bryan Wang, Yi-Hsuan Yang
- Design and Implementation of a Disambiguity Framework for Smart Voice Controlled Devices: Kehua Lei, Tianyi Ma, Zhihan Yang, Cunjun Zhang, Jia Jia
- DISPUTool -- A tool for the Argumentative Analysis of Political Debates: Shohreh Haddadan, Elena Cabrio, Serena Villata
- Embodied Conversational AI Agents in a Multi-modal Multi-agent Competitive Dialogue: Rahul Divekar, Xiangyang Mou, Lisha Chen, Maíra Gatti de Bayser, Melina Alberio Guerra, Hui Su

- ERICA and WikiTalk: Divesh Lala, Graham Wilcock, Kristiina Jokinen, Tatsuya Kawahara
- Explainable Deep Neural Networks for Multivariate Time Series Predictions: Roy Assaf, Anika Schumann
- Fair and Explainable Dynamic Engagement of Crowd Workers: Han Yu, Yang Liu, Xiguang Wei, Chuyu Zheng, Tianjian Chen, Qiang Yang, Xiong Peng
- GraspSnooker: Automatic Chinese Commentary Generation for Snooker Videos: Zhaoyue Sun, Jiaze Chen, Hao Zhou, Deyu Zhou, Lei Li, Mingmin Jiang
- Hintikka's World: scalable higher-order knowledge: Tristan Charrier, Sébastien Gamblin, Alexandre Niveau, François Schwarzentruher
- Intelligent Decision Support for Improving Power Management: Yongqing Zheng, Han Yu, Kun Zhang, Yuliang Shi, Cyril Leung, Chunyan Miao
- InterSpot: Interactive Spammer Detection in Social Media: Kaize Ding, Jundong Li, Shivam Dhar, Shreyash Devan, Huan Liu
- Mappa Mundi: An Interactive Artistic Mind Map Generator with Artificial Imagination: Ruixue Liu, Baoyang Chen, Meng Chen, Youzheng Wu, Zhijie Qiu, Xiaodong He
- Multi-Agent Path Finding on Ozobots: Roman Barták, Ivan Krasičenko, Jiří Švancara
- Multi-Agent Visualization for Explaining Federated Learning: Xiguang Wei, Quan Li, Yang Liu, Han Yu, Tianjian Chen, Qiang Yang
- Neural Discourse Segmentation: Jing Li
- OpenMarkov, an open-source tool for probabilistic graphical models: Manuel Arias, Jorge Pérez-Martín, Manuel Luque, Francisco Javier Diez
- Reagent: Converting Ordinary Webpages into Interactive Software Agents: Matthew Peveler, Jeffrey Kephart, Hui Su
- SAGE: A Hybrid Geopolitical Event Forecasting System: Fred Morstatter, Aram Galstyan, Gleb Satyukov, Daniel Benjamin, Andres Abeliuk, Mehrnoosh Mirtaheeri, Pedro Szekely, Emilio Ferrara, Akira Matsui, Mark Steyvers, Stephen Bennet, David Budescu, Mark Himmelstein, Michael Ward, Andreas Beger, Michele Catasta, Rok Sasic, Jure Leskovec, Pavel Atanasov, Regina Joseph, Rajiv Sethi, Ali Abbas
- The Open Vault Challenge - Learning how to build calibration-free interactive systems by cracking the code of a vault.: Jonathan Grizou
- The pywmi Framework and Toolbox for Probabilistic Inference using Weighted Model Integration: Samuel Kolb, Paolo Morettin, Pedro Zuidberg Dos Martires, Francesco Sommariva, Andrea Passerini, Roberto Sebastiani, Luc de Raedt
- VEST: A System for Vulnerability Exploit Scoring & Timing: Haipeng Chen, Jing Liu, Rui Liu, Noseong Park, V. S. Subrahmanian