



UAI 2022 - Program

Please note that all dates and times are UTC+2 (Central European Time). **The conference is hybrid; there will always be a physical session going on at all times, together with the online component.** All sessions of the main conference take place in **Blauwe Zaal, Auditorium Building**. Below is a summary of the program schedule. For details, please refer to the daily schedules that follow.

Time	1-Aug (Mon) Tutorials	2-Aug (Tue) Main conference day 1	3-Aug (Wed) Main conference day 2	4-Aug (Thur) Main conference day 3	5-Aug (Fri) Workshops		
9:00	Tutorials	Keynote: Danilo J. Rezende	Keynote: Eric Xing	Keynote: Zeynep Akata	Workshops		
10:00		Coffee break	Coffee break	Coffee break			
10:30		Oral session 1 Deep Learning	Oral session 3 Causality and Graphical Models	Oral session 5 Bayesian methods			
12:15		Spotlight session 1 (presented in person)	Spotlight session 4 (presented in person)	Spotlight session 7 (presented remotely)			
12:30		Lunch (on your own)	Lunch (on your own)	Lunch (on your own)			
14:00		Keynote: Mihaela van der Schaar	Keynote: Peter Spirtes	Virtual poster session I			
15:00		Spotlight session 2 (9 presented in person + 16 remotely)	Spotlight session 5 (presented remotely)	Spotlight session 8 (presented remotely)			
15:30		Coffee break	Coffee break	Coffee break			
16:00		Oral session 2 Trustworthy ML + RL	Oral session 4 Games + Uncertainty	Oral session 6 Machine Learning			
17:15		Spotlight session 3 (presented in person)	Spotlight session 6 (presented in person)	Spotlight session 9 (presented remotely)			
17:55		Announcement about UAI 2022 Competition	Break	Break			
18:00		Opening reception	Lakeside Food Festival	Physical poster session I (w/ drinks/snacks)		Keynote: Finale Doshi-Velez	Goodbye drinks
19:00				Physical poster session II (w/ drinks/snacks)		Townhall and Best Paper Awards	
20:00				Virtual poster session II			
21:00							

1 AUG (Tutorial Day)

1 Aug - 09:00-10:00

- Auditorium Room 4: Risk-Averse Reinforcement Learning: Algorithms and Meta-Algorithms
- Auditorium Room 5: Verification Techniques for Probabilistic Systems and Programs

1 Aug - 10:00-10:30 - Coffee break

1 Aug - 10:30-12:00

- Auditorium Room 4: Risk-Averse Reinforcement Learning: Algorithms and Meta-Algorithms
- Auditorium Room 5: Verification Techniques for Probabilistic Systems and Programs

1 Aug - 12:00-13:30 - Lunch (on your own)

1 Aug - 13:30-15:30

- Auditorium Room 4: Double Machine Learning: Causal Inference based on ML
- Auditorium Room 5: Graphical Models Meet Temporal Point Processes

1 Aug - 15:30-16:00 - Coffee break

1 Aug - 16:00-18:00

- Auditorium Room 4: Causality and Deep Learning: Synergies, Challenges & Opportunities for Research
- Auditorium Room 5: Quantifying Predictive Uncertainty Without Distributional Assumptions Via Conformal Prediction

1 Aug - 18:00-19:00 - Opening reception

2 AUG (Main Conference Day 1)

2 Aug - 09:00-10:00 – Keynote by Danilo J. Rezende: Inference and sampling with symmetries and manifold constraints (*session chair: Cassio de Campos*)

2 Aug - 10:00-10:30 - Coffee break

2 Aug - 10:30-12:15 - Oral session 1: Deep Learning (*session chair: Charles Gretton*)

- **560 [Shoring Up the Foundations: Fusing Model Embeddings and Weak Supervision](#)** - Mayee F Chen ; Daniel Yang Fu ; Dyah Adila ; Michael Zhang ; Frederic Sala ; Kayvon Fatahalian ; Christopher Re (*presented in person*)

Discussant: Svenja Uhlemeyer (University of Wuppertal)

- **207 [Distributed Adversarial Training to Robustify Deep Neural Networks at Scale](#)** - Gaoyuan Zhang ; Songtao Lu ; Yihua Zhang ; Xiangyi Chen ; Pin-Yu Chen ; Quanfu Fan (MIT-IBM Watson AI Lab); Lee Martie ; Lior Horesh ; Mingyi Hong ; Sijia Liu (*presented in person*)

Discussant: Motasem Alfarra (KAUST)

- **419 [Learning Invariant Weights in Neural Networks](#)** - Tycho F.A. van der Ouderaa ; Mark van der Wilk (*presented in person*)

Discussant: Pola Schwöbel (Technical University of Denmark (DTU))

- **687 [If You've Trained One You've Trained Them All: Inter-Architecture Similarity Increases With Robustness](#)** - Haydn Jones ; Jacob M. Springer ; Garrett T. Kenyon ; Juston Moore (*presented in person*)

Discussant: Andrea Agiollo (University of Bologna)

- **513 [Mutual Information Based Bayesian Graph Neural Network for Few-shot Learning](#)** - Kaiyu Song; Kun Yue ; Liang Duan ; Mingze Yang; Angsheng Li (*presented remotely*)

Discussant: Francesco Alesiani (NEC Laboratories Europe GmbH)

- **123 [Modeling Extremes with \$\beta\$ -max-decreasing Neural Networks](#)** - Ali Hasan ; Khalil Elkhalil ; Yuting Ng ; Joao M. Pereira ; Sina Farsiu ; Jose Blanchet ; Vahid Tarokh (*presented remotely*)

Discussant: Amartya Sanyal (ETH Zürich)

- **663 [Neuro-Symbolic Entropy Regularization](#)** - Kareem Ahmed ; Eric Wang ; Kai-Wei Chang ; Guy Van den Broeck (*presented remotely*)

Discussant: Emile van Krieken (Vrije Universiteit Amsterdam)

2 Aug - 12:15-12:30 - Spotlight Session 1 (*presented in person; session chair: Pekka Parviainen*)

- **53 [On the Inductive Bias of Neural Networks for Learning Read-once DNFs](#)** - Ido Bronstein ; Alon Brutzkus ; Amir Globerson
- **296 [Predictive Whittle Networks for Time Series](#)** - Zhongjie Yu ; Fabrizio Ventola ; Nils Thoma ; Devendra Singh Dhami ; Martin Mundt ; Kristian Kersting

- **301 [GNN2GNN: Graph Neural Networks to Generate Neural Networks](#)** - Andrea Agiollo ; Andrea Omicini
- **307 [Superposing Many Tickets into One: A Performance Booster for Sparse Neural Network Training](#)** - Lu Yin ; Vlado Menkovski ; Meng Fang ; Tianjin Huang ; Yulong Pei ; Mykola Pechenizkiy ; Decebal Constantin Mocanu ; Shiwei Liu
- **340 [Enhanced Adaptive Optics Control with Image to Image Translation](#)** - Jeffrey Smith ; Jesse Cranney ; Charles Gretton ; Damien Gratadour
- **427 [The Optimal Noise in Noise-Contrastive Learning Is Not What You Think](#)** - Omar Chehab ; Alexandre Gramfort ; Aapo Hyvarinen
- **622 [Feature Learning and Random Features in Standard Finite-Width Convolutional Neural Networks: An Empirical Study](#)** - Maxim Samarin ; Volker Roth ; David Belius
- **670 [Addressing Token Uniformity in Transformers via Singular Value Transformation](#)** - Hanqi Yan ; Lin Gui ; Wenjie Li ; Yulan He
- **143 [Lifting in Multi-agent Systems under Uncertainty](#)** - Tanya Braun ; Marcel Gehrke ; Florian Lau ; Ralf Möller

2 Aug - 12:30-14:00 - Lunch (on your own)

2 Aug - 14:00-15:00 – Keynote by Mihaela van der Schaar: New frontiers in machine learning interpretability
(*session chair: Marloes Maathuis*)

2 Aug - 15:00-15:30 - Spotlight session 2 (9 presented in person + 16 remotely; *session chair: Shiva Kasiviswanthan*)

- **284 [Individual Fairness in Feature-Based Pricing for Monopoly Markets](#)** - Shantanu Das ; Swapnil Dhamal ; Ganesh Ghalme ; Shweta Jain ; Sujit Gujar
- **289 [Case-Based Off-Policy Evaluation Using Prototype Learning](#)** - Anton Matsson ; Fredrik Daniel Johansson
- **303 [Faster Non-Convex Federated Learning via Global and Local Momentum](#)** - Rudrajit Das ; Anish Acharya ; Abolfazl Hashemi ; sujay sanghavi ; Inderjit S Dhillon ; ufuk topcu
- **313 [Restless and Uncertain: Robust Policies for Restless Bandits via Deep Multi-Agent Reinforcement Learning](#)** - Jackson A. Killian ; Lily Xu ; Arpita Biswas ; Milind Tambe
- **314 [Temporal Abstractions-Augmented Temporally Contrastive Learning: An Alternative to the Laplacian in RL](#)** - Akram Erraqabi ; Marlos C. Machado ; Mingde Zhao ; Sainbayar Sukhbaatar ; Alessandro Lazaric ; Ludovic Denoyer ; Yoshua Bengio
- **326 [Towards Painless Policy Optimization for Constrained MDPs](#)** - Arushi Jain ; Sharan Vaswani ; Reza Babanezhad Harikandeh ; Csaba Szepesvari ; Doina Precup
- **349 [Balancing Utility and Scalability in Metric Differential Privacy](#)** - Jacob Imola ; Shiva Kasiviswanathan ; Stephen White ; Abhinav Aggarwal ; Nathanael Teissier
- **366 [Understanding and Mitigating the Limitations of Prioritized Experience Replay](#)** - Yangchen Pan ; Jincheng Mei ; Amir-massoud Farahmand ; Martha White ; Hengshuai Yao ; Mohsen Rohani ; Jun Luo
- **545 [Cross-domain Adaptive Transfer Reinforcement Learning Based on State-Action Correspondence](#)** - You Heng ; Tianpei Yang ; YAN ZHENG ; Jianye HAO ; Matthew E. Taylor
- **37 [Combinatorial Bayesian Optimization with Random Mapping Functions to Convex Polytopes](#)** - Jungtaek Kim ; Seungjin Choi ; Minsu Cho
- **103 [PDO-Net: Deep Probabilistic Dual Quaternion Network for Absolute Pose Regression on \$SSE\(3\)\$](#)** - Wen Jie Li ; Wasif Naeem ; Jia Liu ; Dequan Zheng ; Wei Hao ; Lijun Chen
- **193 [Variational- and Metric-based Deep Latent Space for Out-of-Distribution Detection](#)** - Or Dinari ; Oren Freifeld
- **222 [Accelerating Training of Batch Normalization: A Manifold Perspective](#)** - Mingyang Yi
- **223 [Deep Dirichlet Process Mixture Models](#)** - Naiqi Li ; Wenjie Li ; Yong Jiang ; Shu-Tao Xia
- **233 [Improving Sign-Random-Projection via Count Sketch](#)** - Punit Pankaj Dubey ; Bisham Dev Verma ; Rameshwar Pratap ; Keegan Kang
- **262 [Proportional Allocation of Indivisible Resources under Ordinal and Uncertain Preferences](#)** - Zihao Li ; Xiaohui Bei ; Zhenzhen Yan
- **271 [Knowledge Representation Combining Quaternion Path Integration and Depth-wise Atrous Circular Convolution](#)** - Xinyuan Chen ; Zhongmei Zhou ; meichun gao ; Daya Shi ; Mohd Nizam Husen

- 217 [Asymptotic Optimality for Active Learning Processes](#) - Xueying Zhan ; Yaowei Wang ; Antoni B. Chan
- 234 [Self-Supervised Representations for Multi-View Reinforcement Learning](#) - Huanhuan Yang ; Dianxi Shi ; Guojun Xie ; Yingxuan Peng ; Yi Zhang ; Yantai Yang ; Shaowu Yang
- 241 [Federated Online Clustering of Bandits](#) - Xutong Liu ; Haoru Zhao ; Tong Yu ; Shuai Li ; John Lui
- 243 [Robust Textual Embedding against Word-level Adversarial Attacks](#) - Yichen Yang ; Xiaosen Wang ; Kun He
- 661 [Learning Functions on Multiple Sets using Multi-Set Transformers](#) - Kira A. Selby ; Ahmad Rashid ; Ivan Kobyzev ; Mehdi Rezagholizadeh ; Pascal Poupart
- 484 [Dimension Reduction for High-dimensional Small Counts with KL Divergence](#) - Yurong Ling ; Jing-Hao Xue
- 205 [Cycle Class Consistency with Distributional Optimal Transport and Knowledge Distillation for Unsupervised Domain Adaptation](#) - Tuan Nguyen ; Van Nguyen ; Trung Le ; He Zhao ; Quan Hung Tran ; Dinh Phung
- 14 [CIGMO: Categorical invariant representations in a deep generative framework](#) - Haruo Hosoya

2 Aug - 15:30-16:00 - Coffee break

2 Aug - 16:00-17:15 - Oral session 2: Trustworthy ML + RL (*session chair: Kush Varshney*)

- 539 [How unfair is private learning ?](#) - Amartya Sanyal ; Yaxi Hu ; Fanny Yang (*presented in person*)

Discussant: Yang Liu (UCSC)

- 11 [Mitigating Statistical Bias within Differentially Private Synthetic Data](#) - Sahra Ghalebikesabi ; Harrison Wilde ; Jack Jewson ; Arnaud Doucet ; Sebastian Josef Vollmer ; Christopher C. Holmes (*presented in person*)

Discussant: Shiva Kasiviswanathan (Amazon)

- 674 [Data Poisoning Attacks on Off-Policy Policy Evaluation Methods](#) - Elita Lobo ; Harvineet Singh ; Marek Petrik ; Cynthia Rudin ; Himabindu Lakkaraju (*presented remotely*)

Discussant: Tanya Ignatenko (GN Hearing)

- 489 [Quadratic Metric Elicitation for Fairness and Beyond](#) - Gaurush Hiranandani ; Jatin Mathur ; Harikrishna Narasimhan ; Oluwasanmi O Koyejo (*presented remotely*)

Discussant: Gal Yona (Weizmann Institute, Google)

- 527 [Fast Inference and Transfer of Compositional Task Structures for Few-shot Task Generalization](#) - Sungryull Sohn ; Hyunjae Woo ; Jongwook Choi ; Lyubing Qiang ; Izzeddin Gur ; Aleksandra Faust ; Honglak Lee (*presented remotely*)

Discussant: Chenghao Liu (Salesforce)

2 Aug - 17:15-17:55 - Spotlight session 3 (*presented in person; session chair: Armeen Taeb*)

- 373 [Generalizing Off-Policy Learning under Sample Selection Bias](#) - Tobias Hatt ; Daniel Tschernutter ; Stefan Feuerriegel
- 445 [Multi-source Domain Adaptation via Weighted Joint Distributions Optimal Transport](#) - Rosanna Turrisi ; Rémi Flamary ; Alain Rakotomamonjy ; massimiliano pontil
- 475 [Decision-Theoretic Planning with Communication in Open Multiagent Systems](#) - Anirudh Kakarlapudi ; Gayathri Anil ; Adam Eck ; Prashant Doshi ; Leen-Kiat Soh

- **479 [Inductive Synthesis of Finite-State Controllers for POMDPs](#)** - Roman Andriushchenko ; Milan Ceska ; Sebastian Junges ; Joost-Pieter Katoen
- **533 [Active Learning with Label Comparisons](#)** - Gal Yona ; Shay Moran ; Gal Elidan ; Amir Globerson
- **619 [Optimal Control of Partially Observable Markov Decision Processes with Finite Linear Temporal Logic Constraints](#)** - Krishna C Kalagarla ; Dhruva Kartik ; Rahul Jain ; Pierluigi Nuzzo ; Ashutosh Nayyar ; Dongming Shen
- **625 [Reinforcement Learning in Many-Agent Settings Under Partial Observability](#)** - Keyang He ; Prashant Doshi ; Bikramjit Banerjee
- **636 [Asymmetric DQN for Partially Observable Reinforcement Learning](#)** - Andrea Baisero ; Brett Daley ; Christopher Amato
- **671 [Robust Learning of Tractable Probabilistic Models](#)** - Rohith Peddi ; Tahrima Rahman ; Vibhav Giridhar Gogate
- **683 [Offline Policy Optimization with Eligible Actions](#)** - Yao Liu ; Yannis Flet-Berliac ; Emma Brunskill
- **61 [Feature Selection for Discovering Distributional Treatment Effect Modifiers](#)** - Yoichi Chikahara ; Makoto Yamada ; Hisashi Kashima
- **69 [Sequential algorithmic modification with test data reuse](#)** - Jean Feng ; Gene Pennello ; Nicholas Petrick ; Berkman Sahiner ; Romain Pirracchio ; Alexej Gossman
- **184 [Learning Explainable Templated Graphical Models](#)** - Varun R. Embar ; sriram srinivasan ; Lise Getoor
- **232 [Binary Independent Component Analysis: A Non-stationarity-based Approach](#)** - Antti Hyttinen ; Vitoria Barin Pacela ; Aapo Hyvarinen
- **292 [Causal Discovery under a Confounder](#)** - Blanket David Watson ; Ricardo Silva
- **294 [Greedy Relaxations of the Sparsest Permutation Algorithm](#)** - Wai-Yin Lam ; Bryan Andrews ; Joseph Ramsey
- **300 [Improved Feature Importance Computation for Tree Models Based on the Banzhaf Value](#)** - Adam Karczmarz ; Tomasz Michalak ; Anish Mukherjee ; Piotr Sankowski ; Piotr Wygocki
- **323 [Efficient Learning of Sparse and Decomposable PDEs using Random Projection](#)** - Md Nasim ; Xinghang Zhang ; Anter El-Azab ; Yexiang Xue
- **337 [Intervention Target Estimation in the Presence of Latent Variables](#)** - Burak Varici ; Karthikeyan Shanmugam ; Prasanna Sattigeri ; Ali Tajer
- **414 [A Causal Bandit Approach to Learning Good Atomic Interventions in Presence of Unobserved Confounders](#)** - Aorghya Maiti ; Vineet Nair ; Gaurav Sinha
- **424 [Semiparametric Causal Sufficient Dimension Reduction of Multidimensional](#)** - Treatments Razieh Nabi ; Todd McNutt ; Ilya Shpitser
- **458 [Bayesian Federated Estimation of Causal Effects from Observational](#)** - Data Thanh Vinh Vo ; Young Lee ; Trong Nghia Hoang ; Tze-Yun Leong
- **509 [A Robustness Test for Estimating Total Effects with Covariate Adjustment](#)** - Zehao Su ; Leonard Henckel
- **514 [Counterfactual Inference of Second Opinions](#)** - Nina L. Corvelo Benz ; Manuel Gomez Rodriguez
- **531 [Causal Discovery of Extended Summary Graphs in Time Series](#)** - Charles K. Assaad ; Emilie Devijver ; Eric Gaussier
- **578 [CounterGAN: Generating Counterfactuals for Real-Time Recourse and Interpretability using Residual GANs](#)** - Daniel Alexander Nemirovsky ; Nicolas Kevin Thiebaut ; Ye Xu ; Abhishek Gupta
- **607 [Bayesian Structure Learning with Generative Flow Networks](#)** - Tristan Deleu ; António Góis ; Chris Chinenye Emezue ; Mansi Rankawat ; Simon Lacoste-Julien ; Stefan Bauer ; Yoshua Bengio
- **638 [Greedy Equivalence Search in the Presence of Latent Confounders](#)** - Tom Claassen ; Ioan Gabriel Bucur
- **641 [Principle of Relevant Information for Graph Sparsification](#)** - Shujian Yu ; Francesco Alesiani ; Wenzhe Yin ; Robert Jenssen ; Jose C Principe

2 Aug - 17:55-18:00 - Announcement about UAI 2022 Competition (presented by Bobak Pezeshki)

2 Aug - 18:00-23:00 - Lakeside Food Festival

3 AUG (Main Conference Day 2)

3 Aug - 09:00-10:00 – Keynote by Eric Xing: Machine Learning at All Levels -- a pathway to “Autonomous” AI
(*session chair: James Cussens*)

3 Aug - 10:00-10:30 - Coffee break

3 Aug - 10:30-12:15 - Oral session 3: Causality and Graphical Models (*session chair: Tom Claassen*)

- **181 [Partially Adaptive Regularized Multiple Regression Analysis for Estimating Linear Causal Effects](#)** - Hisayoshi Nanmo ; Manabu Kuroki (*presented in person*)

Discussant: Ankur Ankan (Radboud University)

- **503 [Revisiting the General Identifiability Problem](#)** - Yaroslav Kivva ; Ehsan Mokhtarian ; Jalal Etesami ; Negar Kiyavash (*presented in person*)

Discussant: Sanghack Lee (Seoul National University)

- **593 [Learning soft interventions in complex equilibrium systems](#)** - Michel Besserve ; Bernhard Scholkopf (*presented in person*)

Discussant: Sara Magliacane (University of Amsterdam)

- **190 [Robustness of Model Predictions under Extension](#)** - Tineke Blom ; Joris Mooij (*presented in person*)

Discussant: Yoichi Chikahara (NTT)

- **482 [A New Constructive Criterion for Markov Equivalence of MAGs](#)** - Marcel Wienobst ; Max Bannach ; Maciej Liskiewicz (*presented in person*)

Discussant: Pekka Parviainen (University of Bergen)

- **609 [Causal Inference with Treatment Measurement Error: A Nonparametric Instrumental Variable Approach](#)** - Yuchen Zhu ; Limor Gultchin ; Arthur Gretton ; Matt Kusner ; Ricardo Silva (*presented in person*)

Discussant: Leonard Henckel (University of Copenhagen)

- **186 [Fixing the Bethe Approximation: How Structural Modifications in a Graph Improve Belief Propagation](#)** - Harald Leisenberger ; Franz Pernkopf ; Christian Knoll (*presented remotely*)

Discussant: Alex Markham (KTH Royal Institute of Technology)

3 Aug - 12:15-12:30 - Spotlight session 4 (*presented in person; session chair: Amartya Sanyal*)

- **717 [Estimating Transfer Entropy under Long Ranged Dependencies](#)** - Sahil Garg ; Umang Gupta ; Yu Chen ; Syamantak Datta Gupta ; Yeshaya Adler ; Anderson Schneider ; Yuriy Nevmyvaka
- **678 [Learning Linear Non-Gaussian Polytrees Models](#)** - Daniele Tramontano ; Anthea Monod ; Mathias Drton
- **111 [Balancing Adaptability and Non-exploitability in Repeated Games](#)** - Anthony DiGiovanni ; Ambuj Tewari

- **180 [Fast Predictive Uncertainty for Classification with Bayesian Deep Networks](#)** - Marius Hobbhahn ; Agustinus Kristiadi ; Philipp Hennig
- **258 [Multi-winner Approval Voting Goes Epistemic](#)** - Tahar Allouche ; Jérôme Lang ; Florian Yger
- **287 [Uncertainty-Aware Pseudo-labeling for Quantum Calculations](#)** - Kexin Huang ; Vishnu Sresht ; Brajesh Rai ; Mykola Bordyuh
- **396 [Attribution of Predictive Uncertainties in Classification Models](#)** - Iker Perez ; Piotr Skalski ; Alec Barns-Graham ; Jason Wong ; David Sutton
- **433 [Finite-horizon Equilibria for Neuro-symbolic Concurrent Stochastic Games](#)** - Rui Yan ; Gabriel Santos ; Xiaoming Duan ; David Parker ; Marta Kwiatkowska
- **457 [A Geometric Method for Improved Uncertainty Estimation in Real-time](#)** - Gabriella Chouraqui ; Liron Cohen ; Gil Einziger ; Liel leman
- **18 [Efficient and Transferable Adversarial Examples from Bayesian Neural Networks](#)** - Martin Gubri ; Maxime Cordy ; Mike Papadakis ; YVES LE TRAON ; Koushik Sen
- **84 [Marginal MAP Estimation for Inverse RL under Occlusion with Observer Noise](#)** - Prasanth Sengadu Suresh ; Prashant Doshi
- **150 [Monotonicity Regularization: Improved Penalties and Novel Applications to Disentangled Representation Learning and Robust Classification](#)** - Joao Monteiro ; Mohamed Osama Ahmed ; Hossein Hajimirsadeghi ; Greg Mori

3 Aug - 12:30-14:00 - Lunch (on your own)

3 Aug - 14:00-15:00 – Keynote by Peter Spirtes: Obstacles and Opportunities in Learning Causal Structures and Causal Representations (*session chair: Sara Magliacane*)

3 Aug - 15:00-15:30 - Spotlight session 5 (*presented remotely; session chair: Søren Wengel Mogensen*)

- **244 [Detecting Textual Adversarial Examples through Randomized Substitution and Vote](#)** - Xiaosen Wang ; Yifeng Xiong ; Kun He
- **316 [Research on video adversarial attack with long living cycle](#)** - Zeyu Zhao ; Ke Xu ; Xinghao Jiang ; Tanfeng Sun
- **338 [A Free Lunch from the Noise: Provable and Practical Exploration for Representation Learning](#)** - Tongzheng Ren ; Tianjun Zhang ; Csaba Szepesvari ; Bo Dai
- **405 [SASH: Efficient Secure Aggregation Based on SHPRG For Federated Learning](#)** - Zizhen Liu ; Si Chen ; Jing Justin Ye ; Junfeng Fan ; Huawei Li ; Xiaowei Li
- **493 [Efficient Resource Allocation with Fairness Constraints in Restless Multi-Armed Bandits](#)** - Dexun Li ; Pradeep Varakantham
- **730 [SymNet 2.0: Effectively handling Non-Fluents and Actions in Generalized Neural Policies for RDDL Relational MDPs](#)** - Vishal Sharma ; Daman Arora ; Florian Geißer ; Mausam . ; Parag Singla
- **731 [Identifiability of Sparse Causal Effects using Instrumental Variables](#)** - Niklas Pfister ; Jonas Peters
- **325 [Reframed GES with a Neural Conditional Dependence Measure](#)** - Xinwei Shen ; Shengyu Zhu ; Jiji Zhang ; Shoubo Hu ; Zhitang Chen
- **591 [Causal Forecasting: Generalization Bounds for Autoregressive Models](#)** - Leena Chennuru Vankadara ; Philipp Michael Faller ; Michaela Hardt ; Lenon Minorics ; Debarghya Ghoshdastidar ; Dominik Janzing
- **504 [Mutation-Driven Follow the Regularized Leader for Last-Iterate Convergence in Zero-Sum Games](#)** - Kenshi Abe ; Mitsuki Sakamoto ; Atsushi Iwasaki
- **12 [Robust Bayesian Recourse](#)** - Tuan-Duy Hien Nguyen ; Ngoc Bui ; Duy Nguyen ; Man-Chung Yue ; Viet Anh Nguyen
- **557 [Conditional Simulation Using Diffusion Schrödinger Bridges](#)** - Yuyang Shi ; Valentin De Bortoli ; George Deligiannidis ; Arnaud Doucet
- **45 [Cyclic Test Time Augmentation with Entropy Weight Method](#)** - Sewhan Chun ; Jae Young Lee ; Junmo Kim
- **48 [Convergence Analysis of Linear Coupling with Inexact Proximity Operator](#)** - Qiang Zhou ; Sinno Pan
- **70 [Meta-Learning without Data via Wasserstein Distributionally-Robust Model Fusion](#)** - Zhenyi Wang ; Xiaoyang Wang ; Li Shen ; Qiuling Suo ; Kaiqiang Song ; Dong Yu ; Yan Shen ; Mingchen Gao
- **106 [Shifted Compression Framework: Generalizations and Improvements](#)** - Egor Shulgin ; Peter Richtárik

- **113 [Byzantine-Tolerant Distributed Multiclass Sparse Linear Discriminant Analysis](#)** - Yajie Bao ; Weidong Liu ; Xiaojun Mao ; Weijia Xiong
- **132 [Fine-Grained Matching with Multi-Perspective Similarity Modeling for Cross-Modal Retrieval](#)** - Xiumin Xie ; Chuanwen Hou ; Zhixin Li
- **165 [A Competitive Analysis of Online Failure-Aware Assignment](#)** - Mengjing Chen ; Pingzhong Tang ; Ziheng Wang ; Shenke Xiao ; Xiwang Yang
- **276 [Multiclass Classification for Hawkes Processes](#)** - Christophe Denis ; Charlotte Dion-Blanc ; Laure Sansonnet
- **318 [Sublinear Time Algorithms for Greedy Selection in High Dimensions](#)** - Qi Chen ; Kai Liu ; Ruilong Yao ; Hu Ding
- **412 [Revisiting DP-Means: Fast Scalable Algorithms via Parallelism and Delayed Cluster Creation](#)** - Or Dinari ; Oren Freifeld
- **684 [An Explore-then-Commit Algorithm for Submodular Maximization Under Full-bandit Feedback](#)** - Guanyu Nie ; Mridul Agarwal ; Abhishek Kumar Umrawal ; Vaneet Aggarwal ; Christopher John Quinn
- **141 [Data Dependent Randomized Smoothing](#)** - Motasem Alfarra ; Adel Bibi ; Philip Torr ; Bernard Ghanem
- **548 [Neural-Progressive Hedging: Enforcing Constraints in Reinforcement Learning with Stochastic Programming](#)** - Supriyo Ghosh ; Laura Wynter ; Shiao Hong Lim ; Duc Thien Nguyen

3 Aug - 15:30-16:00 - Coffee break

3 Aug - 16:00-17:15 - Oral session 4: Games + Uncertainty (*session chair: Joost-Pieter Katoen*)

- **410 [Learning in Markov Games: can we exploit a general-sum opponent?](#)** - Giorgia Ramponi ; Marcello Restelli (*presented in person*)

Discussant: Mustafa Mert Çelikok (Aalto University)

- **388 [On-the-fly Adaptation of Patrolling Strategies in Changing Environments](#)** - Tomas Brazdil ; David Klaska ; Antonin Kucera ; Vit Musil ; Petr Novotny ; Vojtech Reha (*presented in person*)

Discussant: Giorgia Ramponi (ETH AI Center)

- **492 [Quantification of Credal Uncertainty in Machine Learning: A Critical Analysis and Empirical Comparison](#)** - Eyke Hullermeier ; Sebastien Destercke ; Mohammad Shaker (*presented in person*)

Discussant: Yingzhen Li (Imperial College London)

- **660 [Hitting Times for Continuous-Time Imprecise-Markov Chains](#)** - Thomas Krak (*presented in person*)

Discussant: Sebastien Destercke (Centre National de la Recherche Scientifique)

- **57 [Solving Structured Hierarchical Games Using Differential Backward Induction](#)** - Zun Li ; Feiran Jia ; Aditya Mate ; Shahin Jabbari ; Mithun Chakraborty ; Milind Tambe ; Yevgeniy Vorobeychik (*presented remotely*)

Discussant: Charles Gretton (The Australian National University)

3 Aug - 17:15-17:55 - Spotlight session 6 (*presented in person; session chair: Elena Zheleva*)

- **119 [Data augmentation in Bayesian neural networks and the cold posterior effect](#)** - Seth Nabarro ; Stoil Krasimirov Ganev ; Adrià Garriga-Alonso ; Vincent Fortuin ; Mark van der Wilk ; Laurence Aitchison
- **226 [On Provably Robust Meta-Bayesian Optimization](#)** - Zhongxiang Dai ; YIZHOU CHEN ; Haibin Yu ; Bryan Kian Hsiang Low ; Patrick Jaillet

- **319 [Forget-me-not! Contrastive Critics for Mitigating Posterior Collapse](#)** - Sachit Menon ; David Blei ; Carl Vondrick
- **406 [Neural Ensemble Search via Bayesian Sampling](#)** - Yao Shu ; Yizhou Chen ; Zhongxiang Dai ; Bryan Kian Hsiang Low
- **431 [Empirical Bayes approach to Truth Discovery problems](#)** - Tsviel Ben Shabat ; Reshef Meir ; David Azriel
- **478 [SMT-based Weighted Model Integration with Structure Awareness](#)** - Giuseppe Spallitta ; Gabriele Masina ; Paolo Morettin ; Andrea Passerini ; Roberto Sebastiani
- **480 [Using hierarchies to efficiently combine evidence with Dempster's rule of combination](#)** - Daira Pinto Prieto ; Ronald de Haan
- **522 [Bayesian Quantile and Expectile Optimisation](#)** - Victor Picheny ; Henry Moss ; Leonard Torossian ; Nicolas Durrande
- **530 [Learning Large Bayesian Networks with Expert Constraints](#)** - Vaidyanathan Peruvemba Ramaswamy ; Stefan Szeider
- **583 [Do Bayesian Variational Autoencoders Know What They Don't Know?](#)** - Misha Glazunov ; Apostolis Zarras
- **617 [Probabilistic Spatial Transformer Networks](#)** - Pola Schwöbel ; Frederik Rahbæk Warburg ; Martin Jørgensen ; Kristoffer Hougaard Madsen ; Søren Hauberg
- **631 [Nonparametric Exponential Family Graph Embeddings for Multiple Representation Learning](#)** - Chien Lu ; Jaakko Peltonen ; Timo Nummenmaa ; Jyrki Nummenmaa
- **657 [Recursive Monte Carlo and Variational Inference with Auxiliary Variables](#)** - Alexander K. Lew ; Marco Cusumano-Towner ; Vikash Mansinghka
- **658 [Interpolating Between Sampling and Variational Inference with Infinite Stochastic Mixtures](#)** - Richard D Lange ; Ari S Benjamin ; Ralf Haefner ; Xaq Pitkow
- **734 [Generalized Bayesian Quadrature with Spectral Kernels](#)** - Houston Warren ; Rafael Oliveira ; Fabio Ramos
- **78 [Learning Sparse Representations of Preferences within Choquet Expected Utility Theory](#)** - Margot Herin ; Patrice Perny ; Nataliya Sokolovska
- **124 [Simplified and Unified Analysis of Various Learning Problems by Reduction to Multiple-Instance Learning](#)** - Daiki Suehiro ; Eiji Takimoto
- **154 [SENTINEL: Taming Uncertainty with Ensemble based Distributional Reinforcement Learning](#)** - Hannes Eriksson ; Debabrota Basu ; Mina Alibeigi ; Christos Dimitrakakis
- **188 [Voronoi Density Estimator for High-Dimensional Data: Computation, Compactification and Convergence](#)** - Vladislav Polianskii ; Giovanni Luca Marchetti ; Alexander Kravberg ; Anastasiia Varava ; Florian T. Pokorny ; Danica Kragic Jensfelt
- **239 [Efficient Inference for Dynamic Topic Modeling with Large Vocabularies](#)** - Federico Tomasi ; Mounia Lalmas ; Zhenwen Dai
- **250 [Multistate Analysis with Infinite Mixtures of Markov Chains](#)** - Lucas Maystre ; Tiffany Wu ; Roberto Sanchis Ojeda ; Tony Jebara
- **333 [Local Calibration: Metrics and Recalibration](#)** - Rachel Luo ; Aadyot Bhatnagar ; Yu Bai ; Shengjia Zhao ; Huan Wang ; Caiming Xiong ; Silvio Savarese ; Edward Schmerling ; Marco Pavone
- **444 [Equilibrium Aggregation: Encoding Sets via Optimization](#)** - Sergey Bartunov ; Fabian Bernd Fuchs ; Timothy P Lillicrap
- **453 [Set-valued prediction in hierarchical classification with constrained representation complexity](#)** - Thomas Mortier ; Krzysztof Dembczynski ; Eyke Hüllermeier ; Willem Waegeman
- **474 [AND/OR Branch-and-Bound for Computational Protein Design Optimizing \$K^*\$](#)** - Bobak Pezeshki ; Radu Marinescu ; Alexander Ihler ; Rina Dechter
- **491 [Towards Unsupervised Open World Semantic Segmentation](#)** - Svenja Uhlemeyer ; Matthias Rottmann ; Hanno Gottschalk
- **525 [On Early Extinction and the Effect of Travelling in the SIR Model](#)** - Petra Berenbrink ; Colin Cooper ; Cristina Gava ; David Kohan Marzagao ; Frederik Mallmann-Trenn ; Tomasz Radzik
- **575 [Semi-supervised novelty detection using ensembles with regularized disagreement](#)** - Alexandru Tifrea ; Eric Petru Stavarache ; Fanny Yang
- **640 [Non-Parametric Inference of Relational Dependence](#)** - Ragib Ahsan ; Zahra Fatemi ; David Arbour ; Elena Zheleva

- 654 [Stability of SGD: Tightness Analysis and Improved Bounds](#) - Yikai Zhang ; Wenjia Zhang ; Sammy Bald ; Vamsi Pritham Pingali ; Chao Chen ; Mayank Goswami

3 Aug - 17:55-18:00 - Break

3 Aug - 18:00-19:00 - Physical poster session I (with drinks/snacks)

- Papers presented in person in Oral Sessions 1-3 & papers with in-person spotlight presentations and ID < 415

3 Aug - 19:00-20:00 - Physical poster session II (with drinks/snacks)

- Papers presented in person in Oral Sessions 4-6 & papers with in-person spotlight presentations and ID > 414

4 AUG (Main Conference Day 3)

4 Aug - 09:00-10:00 – **Keynote by Zeynep Akata:** Explainability in Deep Learning Through Communication (*session chair: Kun Zhang*)

4 Aug - 10:00-10:30 - Coffee break

4 Aug - 10:30-12:15 - **Oral session 5: Bayesian Methods** (*session chair: Hamda Ajmal*)

- **637 [Resolving label uncertainty with implicit posterior models](#)** - Esther Rolf ; Nikolay Malkin ; Alexandros Graikos ; Ana Jojic ; Caleb Robinson ; Nebojsa Jojic (*presented in person*)

Discussant: Nikoo Dehghani (TU Eindhoven)

- **446 [Multi-Objective Bayesian Optimization over High-Dimensional Search Spaces](#)** - Samuel Daulton ; David Eriksson ; Maximilian Balandat ; Eytan Bakshy (*presented in person*)

Discussant: Jinwoo Go (Georgia Institute of Technology)

- **602 [Robust Expected Information Gain for Optimal Bayesian Experimental Design Using Ambiguity Sets](#)** - Jinwoo Go ; Tobin Isaac (*presented in person*)

Discussant: Shujian Yu (UiT - The Arctic University of Norway)

- **112 [Laplace Approximated Gaussian Process State-Space Models](#)** - Jakob Lindinger ; Barbara Rakitsch ; Christoph Lippert (*presented in person*)

Discussant: Martin Jørgensen (University of Oxford)

- **270 [Variational multiple shooting for Bayesian ODEs with Gaussian processes](#)** - Pashupati Rajaram Hegde ; Cagatay Yildiz ; Harri Lahdesmaki ; Samuel Kaski ; Markus Heinonen (*presented in person*)

Discussant: Jakob Lindinger (SICK AG)

- **277 [PAC-Bayesian Domain Adaptation Bounds for Multiclass Learners](#)** - Anthony Sicilia ; Katherine Atwell ; Malihe Alikhani ; Seong Jae Hwang (*presented in person*)

Discussant: Tongliang Liu (University of Sydney)

- **594 [Bayesian Spillover Graphs for Dynamic Networks](#)** - Grace Deng ; David S. Matteson (*presented remotely*)

Discussant: Oisín Ryan (Utrecht University)

4 Aug - 12:15-12:30 - **Spotlight session 7** (*presented remotely; session chair: Leonie Basso*)

- **500 [Combating the Instability of Mutual Information-based Losses via Regularization](#)** - Kwanghee Choi ; Siyeong Lee
- **580 [Bias Aware Probabilistic Boolean Matrix Facortization](#)** - Changlin Wan ; Pengtao Dang ; Tong Zhao ; Yong Zang ; Chi Zhang ; Sha Cao
- **22 [Probabilistic Surrogate Networks for Simulators with Unbounded Randomness](#)** - Andreas Munk ; Berend Zwartsenberg ; Adam Scibior ; Atilim Gunes Baydin ; Andrew Lawrence Stewart ; Goran Fernlund ; Anoush Poursartip ; Frank Wood

- [47 Physics Guided Neural Networks for Spatio-temporal Super-resolution of Turbulent Flows](#) - Tianshu Bao ; Shengyu Chen ; Taylor T Johnson ; Peyman Givi ; Shervin Sammak ; Xiaowei Jia
- [56 Evaluating High-Order Predictive Distributions in Deep Learning](#) - Ian Osband ; Zheng Wen ; Seyed Mohammad Asghari ; Vikranth Dwaracherla ; Xiuyuan Lu ; Benjamin Van Roy
- [187 ResIST: Layer-Wise Decomposition of ResNets for Distributed Training](#) - Chen Dun ; Cameron R. Wolfe ; Chris Jermaine ; Anastasios Kyrillidis
- [219 AUTM Flow: Atomic Unrestricted Time Machine for Monotonic Normalizing Flows](#) - Difeng Cai ; Yuliang Ji ; Huan He ; Qiang Ye ; Yuanzhe Xi
- [286 Path Flow: A Normalizing Flow Generator that Finds Transition Paths](#) - Tianyi Liu ; Weihao Gao ; Zhirui Wang ; Chong Wang
- [437 CoSPA: An Improved Masked Language Model for Chinese Spelling Correction](#) - Shoujian Yang ; Lian Yu
- [357 Safety Aware Changeoint Detection for Piecewise i.i.d. Bandits](#) - Subhojyoti Mukherjee
- [729 Contrastive Latent Variable Models for Neural Text Generation](#) - Zhiyang Teng ; Chenhua Chen ; Yan Zhang ; Yue Zhang
- [587 Identifying near-optimal decisions in linear-in-parameter bandit models with continuous decision sets](#) - Sanjay P. Bhat ; Chaitanya Amballa

4 Aug - 12:30-14:00 - Lunch (on your own)

4 Aug - 14:00-15:00 - Virtual poster session I

- Papers 11, 12, 14, 22, 37, 45, 47, 48, 53, 56, 61, 70, 103, 106, 113, 123, 124, 132, 165, 186, 187, 193, 205, 217, 219, 222, 223, 233, 234, 241, 243, 244, 254, 262, 271, 276, 286, 296, 301, 303, 313, 316, 318, 325, 327, 338, 349, 357, 366, 388, 405, 427, 437, 458, 475, 478, 479, 484, 491, 493, 500, 504, 513, 545, 557, 560, 580, 587, 591, 602, 609, 625, 631, 637, 661, 670, 678, 684, 687, 729, 730, 731

4 Aug - 15:00-15:30 - Spotlight session 8 (presented remotely; session chair: Tim Genewein)

- [32 Residual Bootstrap Exploration for Stochastic Linear Bandit](#) - Shuang Wu ; Chi-Hua Wang ; Yuantong Li ; Guang Cheng
- [122 Differentially Private SGDA for Minimax Problems](#) - Zhenhuan Yang ; Shu Hu ; Yunwen Lei ; Kush R. Varshney ; Siwei Lyu ; Yiming Ying
- [172 On the Effectiveness of Adversarial Training Against Common Corruptions](#) - Klim Kireev ; Maksym Andriushchenko ; Nicolas Flammarion
- [273 Future Gradient Descent for Adapting the Temporal Shifting Data Distribution in Online Recommendation System](#) - Mao Ye ; Ruichen Jiang ; Haoxiang Wang ; Dhruv Choudhary ; Xiaocong Du ; Bhargav Bhushanam ; Aryan Mokhtari ; Arun Kejariwal ; qiang liu
- [306 X-MEN: Guaranteed XOR-Maximum Entropy Constrained Inverse Reinforcement Learning](#) - Fan Ding ; Yexiang Xue
- [312 ST-MAML: A Stochastic-Task based Method for Task-Heterogeneous Meta-Learning](#) - Zhe Wang ; Jake Grigsby ; Arshdeep Sekhon ; Yanjun Qi
- [322 Perturbation Type Categorization for Multiple Adversarial Perturbation Robustness](#) - Pratyush Maini ; Xinyun Chen ; Bo Li ; Dawn Song
- [584 Learning a Neural Pareto Manifold Extractor with Constraints](#) - Soumyajit Gupta ; Gurpreet Singh ; Raghu Bollapragada ; Matthew Lease
- [371 Differentially Private Multi-Party Data Release for Linear Regression](#) - Ruihan Wu ; Xin Yang ; Yuanshun Yao ; Jiankai Sun ; Tianyi Liu ; Kilian Q Weinberger ; Chong Wang
- [421 Calibrated ensembles can mitigate accuracy tradeoffs under distribution shift](#) - Ananya Kumar ; Tengyu Ma ; Percy Liang ; Aditi Raghunathan
- [549 ReVar: Strengthening Policy Evaluation via Reduced Variance Sampling](#) - Subhojyoti Mukherjee ; Josiah P. Hanna ; Robert D Nowak
- [566 Regret Guarantees for Model-Based Reinforcement Learning with Long-Term Average Constraints](#) - Mridul Agarwal ; Qinbo Bai ; Vaneet Aggarwal

- [572 Privacy-Aware Compression for Federated Data Analysis](#) - Kamalika Chaudhuri ; Chuan Guo ; Michael Rabbat
- [576 Toward Learning Human-aligned Cross-domain Robust Models by Countering Misaligned Features](#) - Haohan Wang ; Zeyi Huang ; Hanlin Zhang ; Yong Jae Lee ; Eric Xing
- [582 Can Mean Field Control \(MFC\) Approximate Cooperative Multi Agent Reinforcement Learning \(MARL\) with Non-Uniform Interaction?](#) - Washim Uddin Mondal ; Vaneet Aggarwal ; Satish Ukkusuri
- [597 Deterministic Policy Gradient: Convergence Analysis](#) - Huaqing Xiong ; Tengyu Xu ; Lin Zhao ; Yingbin Liang ; Wei Zhang
- [613 Dynamic Relocation in Ridesharing via Fixpoint Construction](#) - Ian A. Kash ; zhongkai wen ; Lenore Zuck
- [628 Offline Reinforcement Learning Under Value and Density-Ratio Realizability: The Power of Gaps](#) - Jinglin Chen ; Nan Jiang
- [665 Offline Stochastic Shortest Path: Learning, Evaluation and Towards Optimality](#) - Ming Yin ; Wenjing Chen ; Mengdi Wang ; Yu-Xiang Wang
- [690 Near-Optimal Thompson Sampling-based Algorithms for Differentially Private Stochastic Bandits](#) - Bingshan Hu ; Nidhi Hegde
- [697 Linearizing Contextual Bandits with Latent State Dynamics](#) - Elliot Nelson ; Debarun Bhattacharjya ; Tian Gao ; Miao Liu ; Djallel Bouneffouf ; Pascal Poupart
- [702 FedVARP: Tackling the Variance Due to Partial Client Participation in Federated Learning](#) - Divyansh Jhunjhunwala ; Pranay Sharma ; Aushim Nagarkatti ; Gauri Joshi
- [704 Active Approximately Metric-Fair Learning](#) - Yiting Cao ; Chao Lan
- [7 Ordinal Causal Discovery](#) - Yang Ni ; Bani Mallick

4 Aug - 15:30-16:00 - Coffee break

4 Aug - 16:00-17:15 - Oral session 6: Machine Learning (*session chair: Fredrik Johansson*)

- [225 Clustering a Union of Linear Subspaces via Matrix Factorization and Innovation Search](#) - Mostafa Rahmani (*presented in person*)

Discussant: Sibylle Hess (TU Eindhoven)

- [170 Expectation Programming: Adapting Probabilistic Programming Systems to Estimate Expectations Efficiently](#) - Tim Reichelt ; Adam Golinski ; Luke Ong ; Tom Rainforth (*presented in person*)

Discussant: Alew Lew (MIT)

- [254 Quantum Perceptron Revisited: Computational-Statistical Tradeoffs](#) - Mathieu Roget ; Giuseppe Di Molfetta ; Hachem Kadri (*presented in person*)

Discussant: Mansi Rankawat (Mila and Universite de Montreal)

- [456 Implicit kernel meta-learning using kernel integral forms](#) - John Isak Texas Falk ; Carlo Ciliberto ; Massimiliano Pontil (*presented in person*)

Discussant: Joe Suzuki (Osaka University)

- [327 High-Probability Bounds for Robust Stochastic Frank-Wolfe Algorithm](#) - Tongyi Tang ; Krishna Balasubramanian ; Thomas Chun Man Lee (*presented remotely*)

Discussant: Christopher Quinn (Iowa State University)

4 Aug - 17:15-17:55 - Spotlight session 9 (*presented remotely; session chair: Alex Markham*)

- [31 Causal Discovery with Heterogeneous Observational Data](#) - Fangting Zhou ; Kejun He ; Yang Ni
- [49 Variational Message Passing Neural Network for Maximum-A-Posteriori Inference](#) - Zijun Cui ; Hanjing Wang ; Tian Gao ; Kartik Talamadupula ; Qiang Ji
- [194 Capturing Actionable Dynamics with Structured Latent Ordinary Differential Equations](#) - Paidamoyo Chapfuwa ; Sherri Rose ; Lawrence Carin ; Edward Meeds ; Ricardo Henao
- [335 On Testability of the Front-Door Model via Verma Constraints](#) - Rohit Bhattacharya ; Razieh Nabi
- [571 On the Definition and Computation of Causal Treewidth](#) - Yizuo Chen ; Adnan Darwiche
- [649 \$\ell_{\infty}\$ -Bounds of the MLE in the BTL Model under General Comparison Graphs](#) - Wanshan Li ; Shamindra Shrotriya ; Alessandro Rinaldo
- [696 A Mutually Exciting Latent Space Hawkes Process Model for Continuous-time Networks](#) - Zhipeng Huang ; Hadeel Soliman ; Subhadeep Paul ; Kevin S. Xu
- [714 AdaCat: Adaptive Categorical Discretization for Autoregressive Models](#) - Qiyang Li ; Ajay Jain ; Pieter Abbeel
- [16 Learning Binary Multi-Scale Games on Networks](#) - Sixie Yu ; P. Jeffrey Brantingham ; Matthew Valasik ; Yevgeniy Vorobeychik
- [28 Efficient and Accurate Top- \$K\$ Recovery from Choice Data](#) - Duc Nguyen
- [130 Self-Distribution Distillation: Efficient Uncertainty Estimation](#) - Yassir Fathullah ; Mark Gales
- [196 Information Design for Multiple Independent and Self-Interested Defenders: Work Less, Pay Off More](#) - Chenghan Zhou ; Andrew Spivey ; Haifeng Xu ; Thanh Hong Nguyen
- [315 Information-Theoretic Approach to Detect Collusion in Multi-Agent Games](#) - Trevor Bonjour ; Vaneet Aggarwal ; Bharat Bhargava
- [604 Partial Likelihood Thompson Sampling](#) - Han Wu ; Stefan Wager
- [5 Test for non-negligible adverse shifts](#) - Vathy M. Kamulete
- [146 Data Sampling Affects the Complexity of Online SGD over Dependent Data](#) - Shaocong Ma ; Ziyi Chen ; Yi Zhou ; Kaiyi Ji ; Yingbin Liang
- [162 Pareto Navigation Gradient Descent: a First-Order Algorithm for Optimization in Pareto Set](#) - Mao Ye ; Qiang Liu
- [178 StackMix: A complementary Mix algorithm](#) - John Chen ; Samarth Sinha ; Anastasios Kyriklidis
- [477 Orthogonal Gromov Wasserstein Distance with Efficient Lower Bound](#) - Hongwei Jin ; Zishun Yu ; Xinhua Zhang
- [517 Noisy \$\ell_0\$ -Sparse Subspace Clustering on Dimensionality Reduced Data](#) - Yingzhen Yang ; Ping Li
- [534 VQ-Flows: Vector Quantized Local Normalizing Flows](#) - Sahil Sidheekh ; Chris Barton Dock ; Tushar Jain ; Radu Balan ; Maneesh Kumar Singh
- [542 A label-efficient two-sample test](#) - Weizhi Li ; Gautam Dasarathy ; Karthikeyan Natesan Ramamurthy ; Visar Berisha
- [652 Low Precision Arithmetic for Fast Gaussian Processes](#) - Wesley Maddox ; Andres Potapczynski ; Andrew Gordon Wilson
- [739 Offline Change Detection under Contamination](#) - Sujay Bhatt ; Guanhua Fang ; Ping Li
- [695 Greedy Modality Selection via Approximate Submodular Maximization](#) - Runxiang Cheng ; Gargi Balasubramaniam ; Yifei He ; Yao-Hung Hubert Tsai ; Han Zhao
- [723 Robust Identifiability in Linear Structural Equation Models of Causal Inference](#) - Karthik Abinav Sankararaman ; Anand Louis ; Navin Goyal
- [620 Systematized Event-Aware Learning for Multi-Object Tracking](#) - Hyemin Lee ; Daijin Kim
- [339 NeuroBE: Escalating NN Approximations of Bucket Elimination](#) - Sakshi Agarwal ; Kalev Kask ; Alexander Ihler ; Rina Dechter

4 Aug - 17:55-18:00 - Break

4 Aug - 18:00-19:00 – Keynote by Finale Doshi-Velez: *Towards Increasing Generalization in Interpretable Machine Learning (session chair: Jirka Vomlel)*

4 Aug - 19:00-20:00 - Townhall and Best Paper Awards

4 Aug - 20:00-21:00 - Virtual poster session II

- Papers 5, 7, 16, 18, 28, 31, 32, 49, 57, 69, 84, 122, 130, 146, 162, 172, 178, 184, 194, 196, 207, 225, 232, 239, 273, 287, 294, 306, 312, 315, 322, 323, 335, 337, 339, 371, 412, 421, 424, 444, 457, 477, 489, 517, 522, 527, 530, 531, 534, 542, 549, 566, 571, 572, 576, 578, 582, 584, 594, 597, 604, 607, 613, 620, 628, 649, 652, 654, 658, 663, 665, 674, 690, 695, 696, 697, 702, 704, 714, 717, 723, 739

5 AUG (Workshop Day)

Workshops will be held on August 5th following the main conference (Auditorium rooms 4,5,6). For any questions, please contact the Workshop Chairs (uai2022chairs+workshops@gmail.com). The list of accepted workshops is below.

- Bayesian Modeling Applications Workshop

Organizing committee:

- V Anne Smith
- Arjen Hommersom
- Charles Twardy
- Russell Almond
- John Mark Agosta
- Dennis Buede
- María Julia Flores Gallego
- Kathryn B. Laskey
- Thomas Dyhre Nielsen
- Ann Nicholson
- L. Enrique Sucar
- Thomas Walsh

Room: Auditorium room 6

- Tractable Probabilistic Modeling: From Theory to Practice

Organizing committee:

- Yoojung Choi
- Eric Nalisnick
- Martin Trapp
- Fabrizio Ventola
- Antonio Vergari

Room: Auditorium room 5

- Causal Representation Learning

Organizing committee:

- Julius von Kügelgen
- Luigi Gresele
- Francesco Locatello
- Sara Magliacane
- Nan Rosmary Ke
- Yixin Wang
- Yoshua Bengio

Room: Auditorium room 4

Changes at the conference

1. 313 changed from in-person to remote in S2: skip the slides during in-person presentations, and let Jackson Killian given a remote presentation at the end of S2 (around 15:28);
- 2.