

(2334 events) Timezone: »

- Tue Dec 07 08:30 AM -- 10:00 AM (PST) Poster
Cardinality constrained submodular maximization for random streams
Paul Liu · Aviad Rubinstein · Jan Vondrak · Junyao Zhao In Poster Session 1
[ OpenReview]
- Tue Dec 07 08:30 AM -- 10:00 AM (PST) @ Virtual Poster
Large-Scale Wasserstein Gradient Flows
Petr Mokrov · Alexander Korotin · Lingxiao Li · Aude Genevay · Justin Solomon · Evgeny Burnaev In Poster Session 1
[Slides] [ OpenReview]
- Tue Dec 07 08:30 AM -- 10:00 AM (PST) Poster
One More Step Towards Reality: Cooperative Bandits with Imperfect Communication
Udari Madhushani · Abhimanyu Dubey · Naomi Leonard · Alex Pentland In Poster Session 1
[ OpenReview]
- Tue Dec 07 08:30 AM -- 10:00 AM (PST) Poster
A Separation Result Between Data-oblivious and Data-aware Poisoning Attacks
Samuel Deng · Sanjam Garg · Somesh Jha · Saeed Mahloujifar · Mohammad Mahmoody · Abhradeep Guha Thakurta In Poster Session 1
[ OpenReview]
- Tue Dec 07 08:30 AM -- 10:00 AM (PST) Poster
Test-Time Personalization with a Transformer for Human Pose Estimation
Yizhuo Li · Miao Hao · Zonglin Di · Nitesh Bharadwaj Gundavarapu · Xiaolong Wang In Poster Session 1
[ OpenReview]
- Tue Dec 07 08:30 AM -- 10:00 AM (PST) Poster
Continuous vs. Discrete Optimization of Deep Neural Networks
Omer Elkabetz · Nadav Cohen In Poster Session 1
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- Tue Dec 07 08:30 AM -- 10:00 AM (PST) @ Virtual Poster
Multi-Armed Bandits with Bounded Arm-Memory: Near-Optimal Guarantees for Best-Arm Identification and Regret Minimization
Arnab Maiti · Vishakha Patil · Arindam Khan In Poster Session 1
[Slides] [ OpenReview]
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Optimizing Reusable Knowledge for Continual Learning via Metalearning
Julio Hurtado · Alain Raymond · Alvaro Soto In Poster Session 1
[ OpenReview]
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Learning to Adapt via Latent Domains for Adaptive Semantic Segmentation

Yunan Liu · Shanshan Zhang · Yang Li · Jian Yang

In Poster Session 1

[ OpenReview]

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Learning MDPs from Features: Predict-Then-Optimize for Sequential Decision Making by Reinforcement Learning

Kai Wang · Sanket Shah · Haipeng Chen · Andrew Perrault · Finale Doshi-Velez · Milind Tambe

In Poster Session 1

[ OpenReview]

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The Semi-Random Satisfaction of Voting Axioms

Lirong Xia

In Poster Session 1

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Counterfactual Explanations in Sequential Decision Making Under Uncertainty

Stratis Tsitsis · Abir De · Manuel Rodriguez

In Poster Session 1

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Statistical Undecidability in Linear, Non-Gaussian Causal Models in the Presence of Latent Confounders

Konstantin Genin

In Poster Session 1

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Finding Regions of Heterogeneity in Decision-Making via Expected Conditional Covariance

Justin Lim · Christina X Ji · Michael Oberst · Saul Blecker · Leora Horwitz · David Sontag

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Safe Pontryagin Differentiable Programming

Wanxin Jin · Shaoshuai Mou · George J. Pappas

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Neural Circuit Synthesis from Specification Patterns

Frederik Schmitt · Christopher Hahn · Markus N Rabe · Bernd Finkbeiner

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Stochastic Optimization of Areas Under Precision-Recall Curves with Provable Convergence

Qi Qi · Youzhi Luo · Zhao Xu · Shuiwang Ji · Tianbao Yang

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Towards mental time travel: a hierarchical memory for reinforcement learning agents

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Detecting Moments and Highlights in Videos via Natural Language Queries

Jie Lei · Tamara L Berg · Mohit Bansal

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Do Neural Optimal Transport Solvers Work? A Continuous Wasserstein-2 Benchmark

Alexander Korotin · Lingxiao Li · Aude Genevay · Justin Solomon · Alexander Filippov · Evgeny Burnaev

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Center Smoothing: Certified Robustness for Networks with Structured Outputs

Aounon Kumar · Tom Goldstein

In Poster Session 1

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Supervising the Transfer of Reasoning Patterns in VQA

Corentin Kervadec · Christian Wolf · Grigory Antipov · Moez Baccouche · Madiha Nadri

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Bandits with Knapsacks beyond the Worst Case

Karthik Abinav Sankararaman · Aleksandrs Slivkins

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DOCTOR: A Simple Method for Detecting Misclassification Errors

Federica Granese · Marco Romanelli · Daniele Gorla · Catuscia Palamidessi · Pablo Piantanida

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One Explanation is Not Enough: Structured Attention Graphs for Image Classification

Vivswan Shitole · Fuxin Li · Minsuk Kahng · Prasad Tadepalli · Alan Fern

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Fast Algorithms for L_∞ -constrained S-rectangular Robust MDPs

Bahram Behzadian · Marek Petrik · Chin Pang Ho

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Automatic Unsupervised Outlier Model Selection

Yue Zhao · Ryan Rossi · Leman Akoglu

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On Provable Benefits of Depth in Training Graph Convolutional Networks

Weilin Cong · Morteza Ramezani · Mehrdad Mahdavi

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Near-Optimal Offline Reinforcement Learning via Double Variance Reduction

Ming Yin · Yu Bai · Yu-Xiang Wang

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Learning the optimal Tikhonov regularizer for inverse problems

Giovanni Alberti · Ernesto De Vito · Matti Lassas · Luca Ratti · Matteo Santacesaria

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Automated Discovery of Adaptive Attacks on Adversarial Defenses

Chengyuan Yao · Pavol Bielik · Petar Tsankov · Martin Vechev

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An Online Method for A Class of Distributionally Robust Optimization with Non-convex Objectives

Qi Qi · Zhishuai Guo · Yi Xu · Rong Jin · Tianbao Yang

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NeurWIN: Neural Whittle Index Network For Restless Bandits Via Deep RL

Khaled Nakhleh · Santosh Ganji · Ping-Chun Hsieh · I-Hong Hou · Srinivas Shakkottai

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Can we have it all? On the Trade-off between Spatial and Adversarial Robustness of Neural Networks

Sandesh Kamath · Amit Deshpande · Subrahmanyam Kambhampati Venkata · Vineeth N Balasubramanian

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Compositional Modeling of Nonlinear Dynamical Systems with ODE-based Random Features

Thomas McDonald · Mauricio Álvarez

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Memory Efficient Meta-Learning with Large Images

John Bronskill · Daniela Massiceti · Massimiliano Patacchiola · Katja Hofmann · Sebastian Nowozin · Richard Turner

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Implicit Semantic Response Alignment for Partial Domain Adaptation

Wenxiao Xiao · Zhengming Ding · Hongfu Liu

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A novel notion of barycenter for probability distributions based on optimal weak mass transport	
Elsa Cazelles · Felipe Tobar · Joaquin Fontbona	In Poster Session 1
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Mirror Langevin Monte Carlo: the Case Under Isoperimetry	
Qijia Jiang	In Poster Session 1
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PARP: Prune, Adjust and Re-Prune for Self-Supervised Speech Recognition	
Cheng-I Jeff Lai · Yang Zhang · Alexander Liu · Shiyu Chang · Yi-Lun Liao · Yung-Sung Chuang · Kaizhi Qian · Sameer Khurana · David Cox · Jim Glass	In Poster Session 1
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Achieving Rotational Invariance with Bessel-Convolutional Neural Networks	
Valentin Delchevalerie · Adrien Bibal · Benoît Frénay · Alexandre Mayer	In Poster Session 1
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Temporally Abstract Partial Models	
Khimya Khetarpal · Zafarali Ahmed · Gheorghe Comanici · Doina Precup	In Poster Session 1
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Fair Exploration via Axiomatic Bargaining	
Jackie Baek · Vivek Farias	In Poster Session 1
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From Optimality to Robustness: Adaptive Re-Sampling Strategies in Stochastic Bandits	
Dorian Baudry · Patrick Saux · Odalric-Ambrym Maillard	In Poster Session 1
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Reinforcement Learning in Reward-Mixing MDPs	
Jeongyeol Kwon · Yonathan Efroni · Constantine Caramanis · Shie Mannor	In Poster Session 1
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Morié Attack (MA): A New Potential Risk of Screen Photos	
Dantong Niu · Ruohao Guo · Yisen Wang	In Poster Session 1
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From global to local MDI variable importances for random forests and when they are Shapley values	
Antonio Sutera · Gilles Louppe · Van Anh Huynh-Thu · Louis Wehenkel · Pierre Geurts	In Poster Session 1

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Dealing With Misspecification In Fixed-Confidence Linear Top-m Identification

Clémence Réda · Andrea Tirinzoni · Rémy Degenne

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Medical Dead-ends and Learning to Identify High-Risk States and Treatments

Mehdi Fatemi · Taylor Killian · Jayakumar Subramanian · Marzyeh Ghassemi

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Relational Self-Attention: What's Missing in Attention for Video Understanding

Manjin Kim · Heeseung Kwon · CHUNYU WANG · Suha Kwak · Minsu Cho

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Robust and Fully-Dynamic Coreset for Continuous-and-Bounded Learning (With Outliers)**Problems**

Zixiu Wang · Yiwen Guo · Hu Ding

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Learning Generalized Gumbel-max Causal Mechanisms

Guy Lorberbom · Daniel D. Johnson · Chris Maddison · Daniel Tarlow · Tamir Hazan

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You are caught stealing my winning lottery ticket! Making a lottery ticket claim its ownership

Xuxi Chen · Tianlong Chen · Zhenyu Zhang · Zhangyang Wang

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Instance-dependent Label-noise Learning under a Structural Causal Model

Yu Yao · Tongliang Liu · Mingming Gong · Bo Han · Gang Niu · Kun Zhang

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Adaptive Risk Minimization: Learning to Adapt to Domain Shift

Marvin Zhang · Henrik Marklund · Nikita Dhawan · Abhishek Gupta · Sergey Levine · Chelsea Finn

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SILG: The Multi-domain Symbolic Interactive Language Grounding Benchmark

Victor Zhong · Austin W. Hanjie · Sida Wang · Karthik Narasimhan · Luke Zettlemoyer

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Noether Networks: meta-learning useful conserved quantities

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Adversarial Robustness of Streaming Algorithms through Importance Sampling

Vladimir Braverman · Avinatan Hassidim · Yossi Matias · Mariano Schain · Sandeep Silwal · Samson Zhou

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Identifiable Generative models for Missing Not at Random Data Imputation

Chao Ma · Cheng Zhang

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Challenges and Opportunities in High Dimensional Variational Inference

Akash Kumar Dhaka · Alejandro Catalina · Manushi Welandawe · Michael Andersen · Jonathan Huggins · Aki Vehtari

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Charting and Navigating the Space of Solutions for Recurrent Neural Networks

Elia Turner · Kabir V Dabholkar · Omri Barak

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Perturbation-based Regret Analysis of Predictive Control in Linear Time Varying Systems

Yiheng Lin · Yang Hu · Guanya Shi · Haoyuan Sun · Guannan Qu · Adam Wierman

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Beyond Tikhonov: faster learning with self-concordant losses, via iterative regularization

Gaspard Beugnot · Julien Mairal · Alessandro Rudi

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Coupled Segmentation and Edge Learning via Dynamic Graph Propagation

Zhiding Yu · Rui Huang · Wonmin Byeon · Sifei Liu · Guilin Liu · Thomas Breuel · Anima Anandkumar · Jan Kautz

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Evaluating model performance under worst-case subpopulations

Mike Li · Hongseok Namkoong · Shangzhou Xia

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Higher Order Kernel Mean Embeddings to Capture Filtrations of Stochastic Processes

Cristopher Salvi · Maud Lemercier · Chong Liu · Blanka Horvath · Theodoros Damoulas · Terry Lyons

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Distributional Gradient Matching for Learning Uncertain Neural Dynamics Models

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CARMS: Categorical-Antithetic-REINFORCE Multi-Sample Gradient Estimator

Alek Dimitriev · Mingyuan Zhou

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Learning Stochastic Majority Votes by Minimizing a PAC-Bayes Generalization Bound

Valentina Zantedeschi · Paul Viallard · Emilie Morvant · Rémi Emonet · Amaury Habrard · Pascal Germain · Benjamin Guedj

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Misspecified Gaussian Process Bandit Optimization

Ilija Bogunovic · Andreas Krause

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End-to-end Multi-modal Video Temporal Grounding

Yi-Wen Chen · Yi-Hsuan Tsai · Ming-Hsuan Yang

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An Efficient Pessimistic-Optimistic Algorithm for Stochastic Linear Bandits with General Constraints

Xin Liu · Bin Li · Pengyi Shi · Lei Ying

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On the Algorithmic Stability of Adversarial Training

Yue Xing · Qifan Song · Guang Cheng

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A No-go Theorem for Robust Acceleration in the Hyperbolic Plane

Linus Hamilton · Ankur Moitra

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Model Adaptation: Historical Contrastive Learning for Unsupervised Domain Adaptation without Source Data

Jiaxing Huang · Dayan Guan · Aoran Xiao · Shijian Lu

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An Image is Worth More Than a Thousand Words: Towards Disentanglement in The Wild

Aviv Gabbay · Niv Cohen · Yedid Hoshen

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Revisiting Hilbert-Schmidt Information Bottleneck for Adversarial Robustness

Zifeng Wang · Tong Jian · Aria Masoomi · Stratis Ioannidis · Jennifer Dy

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Collaborative Uncertainty in Multi-Agent Trajectory Forecasting

Bohan Tang · Yiqi Zhong · Ulrich Neumann · Gang Wang · Siheng Chen · Ya Zhang

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Global Convergence of Gradient Descent for Asymmetric Low-Rank Matrix Factorization

Tian Ye · Simon Du

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Structured Reordering for Modeling Latent Alignments in Sequence Transduction

baolin wang · Mirella Lapata · Ivan Titov

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H-NeRF: Neural Radiance Fields for Rendering and Temporal Reconstruction of Humans in Motion

Hongyi Xu · Thiem Alldieck · Cristian Sminchisescu

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Unifying Gradient Estimators for Meta-Reinforcement Learning via Off-Policy Evaluation

Yunhao Tang · Tadashi Kozuno · Mark Rowland · Remi Munos · Michal Valko

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Beware of the Simulated DAG! Causal Discovery Benchmarks May Be Easy to Game

Alexander Reisach · Christof Seiler · Sebastian Weichwald

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Bandit Phase Retrieval

Tor Lattimore · Botao Hao

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Optimal Policies Tend To Seek Power

Alex Turner · Logan Smith · Rohin Shah · Andrew Critch · Prasad Tadepalli

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Implicit SVD for Graph Representation Learning

Sami Abu-El-Haija · Hesham Mostafa · Marcel Nassar · Valentino Crespi · Greg Ver Steeg · Aram Galstyan

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On the Universality of Graph Neural Networks on Large Random Graphs

Nicolas Keriven · Alberto Bietti · Samuel Vaiter

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Identifying and Benchmarking Natural Out-of-Context Prediction Problems

David Madras · Richard Zemel

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Environment Generation for Zero-Shot Compositional Reinforcement Learning

Izzeddin Gur · Natasha Jaques · Yingjie Miao · Jongwook Choi · Manoj Tiwari · Honglak Lee · Aleksandra Faust In Poster Session 1

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Dynamical Wasserstein Barycenters for Time-series Modeling

Kevin Cheng · Shuchin Aeron · Michael Hughes · Eric L Miller

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Variational Diffusion Models

Diederik Kingma · Tim Salimans · Ben Poole · Jonathan Ho

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Dynamics of Stochastic Momentum Methods on Large-scale, Quadratic Models

Courtney Paquette · Elliot Paquette

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Statistical Inference with M-Estimators on Adaptively Collected Data

Kelly Zhang · Lucas Janson · Susan Murphy

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Removing Inter-Experimental Variability from Functional Data in Systems Neuroscience

Dominic Gonschorek · Larissa Höfling · Klaudia P. Szatkó · Katrin Franke · Timm Schubert · Benjamin Dunn · In Poster Session 1

Philipp Berens · David Klindt · Thomas Euler

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Rebooting ACGAN: Auxiliary Classifier GANs with Stable Training

Minguk Kang · Woohyeon Shim · Minsu Cho · Jaesik Park

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Grounding inductive biases in natural images: invariance stems from variations in data

Diane Bouchacourt · Mark Ibrahim · Ari Morcos

In Poster Session 1

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S³: Sign-Sparse-Shift Reparametrization for Effective Training of Low-bit Shift Networks
Xinlin Li · Bang Liu · Yaoliang Yu · Wulong Liu · Chunjing XU · Vahid Partovi Nia In Poster Session 1
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Meta Two-Sample Testing: Learning Kernels for Testing with Limited Data
Feng Liu · Wenkai Xu · Jie Lu · [deadname] Sutherland In Poster Session 1
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Pooling by Sliced-Wasserstein Embedding
Navid Naderializadeh · Joseph F Comer · Reed Andrews · Heiko Hoffmann · Soheil Kolouri In Poster Session 1
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On UMAP's True Loss Function
Sebastian Damrich · Fred Hamprecht In Poster Session 1
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Compressive Visual Representations
Kuang-Huei Lee · Anurag Arnab · Sergio Guadarrama · John Canny · Ian Fischer In Poster Session 1
[Slides] [ OpenReview]

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Perceptual Score: What Data Modalities Does Your Model Perceive?
Itai Gat · Idan Schwartz · Alex Schwing In Poster Session 1
[ OpenReview]

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Differentiable Annealed Importance Sampling and the Perils of Gradient Noise
Guodong Zhang · Kyle Hsu · Jianing Li · Chelsea Finn · Roger Grosse In Poster Session 1
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GeoMol: Torsional Geometric Generation of Molecular 3D Conformer Ensembles
Octavian Ganea · Lagnajit Pattanaik · Connor Coley · Regina Barzilay · Klavs Jensen · William Green · Tommi Jaakkola In Poster Session 1
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Searching the Search Space of Vision Transformer
Minghao Chen · Kan Wu · Bolin Ni · Houwen Peng · Bei Liu · Jianlong Fu · Hongyang Chao · Haibin Ling In Poster Session 1
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Structural Credit Assignment in Neural Networks using Reinforcement Learning
Dhawal Gupta · Gabor Mihucz · Matthew Schlegel · James Kostas · Philip Thomas · Martha White In Poster Session 1
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On sensitivity of meta-learning to support data Mayank Agarwal · Mikhail Yurochkin · Yuekai Sun [ OpenReview]	In Poster Session 1
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Sharp Impossibility Results for Hyper-graph Testing Jiashun Jin · Zheng Tracy Ke · Jiajun Liang [ OpenReview]	In Poster Session 1
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Leveraging the Inductive Bias of Large Language Models for Abstract Textual Reasoning Christopher Ryting · David Wingate [ OpenReview]	In Poster Session 1
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Neural Program Generation Modulo Static Analysis Rohan Mukherjee · Yeming Wen · Dipak Chaudhari · Thomas Reps · Swarat Chaudhuri · Christopher Jermaine [ OpenReview]	In Poster Session 1
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Test-Time Classifier Adjustment Module for Model-Agnostic Domain Generalization Yusuke Iwasawa · Yutaka Matsuo [Slides] [ OpenReview]	In Poster Session 1
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Approximating the Permanent with Deep Rejection Sampling Juha Harviainen · Antti Röyskö · Mikko Koivisto [ OpenReview]	In Poster Session 1
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Decentralized Learning in Online Queuing Systems Flore Sentenac · Etienne Boursier · Vianney Perchet [ OpenReview]	In Poster Session 1
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On the Convergence Theory of Debiased Model-Agnostic Meta-Reinforcement Learning Alireza Fallah · Kristian Georgiev · Aryan Mokhtari · Asuman Ozdaglar [ OpenReview]	In Poster Session 1
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Consistent Non-Parametric Methods for Maximizing Robustness Robi Bhattacharjee · Kamalika Chaudhuri [ OpenReview]	In Poster Session 1
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Inverse Optimal Control Adapted to the Noise Characteristics of the Human Sensorimotor System Matthias Schultheis · Dominik Straub · Constantin Rothkopf [ OpenReview]	In Poster Session 1

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Targeted Neural Dynamical Modeling

Cole Hurwitz · Akash Srivastava · Kai Xu · Justin Jude · Matthew Perich · Lee Miller · Matthias Hennig

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Learning Robust Hierarchical Patterns of Human Brain across Many fMRI Studies

Dushyant Sahoo · Christos Davatzikos

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Class-agnostic Reconstruction of Dynamic Objects from Videos

Zhongzheng Ren · Xiaoming Zhao · Alex Schwing

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SketchGen: Generating Constrained CAD Sketches

Wamiq Para · Shariq Bhat · Paul Guerrero · Tom Kelly · Niloy Mitra · Leonidas Guibas · Peter Wonka

In Poster Session 1

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Exploiting the Intrinsic Neighborhood Structure for Source-free Domain Adaptation

Shiqi Yang · yaxing wang · Joost van de Weijer · Luis Herranz · Shangling Jui

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Learning Generative Vision Transformer with Energy-Based Latent Space for Saliency Prediction

Jing Zhang · Jianwen Xie · Nick Barnes · Ping Li

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Learning Graph Cellular Automata

Daniele Grattarola · Lorenzo Livi · Cesare Alippi

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Cooperative Stochastic Bandits with Asynchronous Agents and Constrained Feedback

Lin Yang · Yu-Zhen Janice Chen · Stephen Pasteris · Mohammad Hajiesmaili · John C. S. Lui · Don Towsley

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Towards Optimal Strategies for Training Self-Driving Perception Models in Simulation

David Acuna · Jonah Philion · Sanja Fidler

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TOHAN: A One-step Approach towards Few-shot Hypothesis Adaptation

Haoang Chi · Feng Liu · Wenjing Yang · Long Lan · Tongliang Liu · Bo Han · William Cheung · James Kwok

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A Universal Law of Robustness via Isoperimetry

Sebastien Bubeck · Mark Sellke

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[Slides] [ OpenReview]

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Discrete-Valued Neural Communication

Dianbo Liu · Alex Lamb · Kenji Kawaguchi · Anirudh Goyal ALIAS PARTH GOYAL · Chen Sun · Michael Mozer · In Poster Session 1
Yoshua Bengio

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Measuring Generalization with Optimal Transport

Ching-Yao Chuang · Youssef Mroueh · Kristjan Greenewald · Antonio Torralba · Stefanie Jegelka In Poster Session 1

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Indexed Minimum Empirical Divergence for Unimodal Bandits

Hassan SABER · Pierre Ménard · Odalric-Ambrym Maillard In Poster Session 1

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Fitting summary statistics of neural data with a differentiable spiking network simulator

Guillaume Bellec · Shuqi Wang · Alireza Modirshanechi · Johann Brea · Wulfram Gerstner In Poster Session 1

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Subgaussian and Differentiable Importance Sampling for Off-Policy Evaluation and Learning

Alberto Maria Metelli · Alessio Russo · Marcello Restelli In Poster Session 1

[Slides] [ OpenReview]

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Hyperbolic Procrustes Analysis Using Riemannian Geometry

Ya-Wei Eileen Lin · Yuval Kluger · Ronen Talmon In Poster Session 1

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Proxy-Normalizing Activations to Match Batch Normalization while Removing Batch Dependence

Antoine Labatie · Dominic Masters · Zach Eaton-Rosen · Carlo Luschi In Poster Session 1

[Slides] [ OpenReview]

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Black Box Probabilistic Numerics

Onur Teymur · Christopher Foley · Philip Breen · Toni Karvonen · Chris Oates In Poster Session 1

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Iterative Connecting Probability Estimation for Networks

Yichen Qin · Linhan Yu · Yang Li In Poster Session 1

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Rethinking Space-Time Networks with Improved Memory Coverage for Efficient Video Object Segmentation

Ho Kei Cheng · Yu-Wing Tai · Chi-Keung Tang

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Self-Attention Between Datapoints: Going Beyond Individual Input-Output Pairs in Deep Learning

Jannik Kossen · Neil Band · Clare Lyle · Aidan Gomez · Thomas Rainforth · Yarin Gal

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SmoothMix: Training Confidence-calibrated Smoothed Classifiers for Certified Robustness

Jongheon Jeong · Sejun Park · Minkyu Kim · Heung-Chang Lee · Do-Guk Kim · Jinwoo Shin

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On Model Calibration for Long-Tailed Object Detection and Instance Segmentation

Tai-Yu Pan · Cheng Zhang · Yandong Li · Hexiang Hu · Dong Xuan · Soravit Changpinyo · Boqing Gong · Wei-Lun Chao

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PCA Initialization for Approximate Message Passing in Rotationally Invariant Models

Marco Mondelli · Ramji Venkataramanan

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Mini-Batch Consistent Slot Set Encoder for Scalable Set Encoding

Andreas Bruno · Jeffrey Willette · Juho Lee · Sung Ju Hwang

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Non-Gaussian Gaussian Processes for Few-Shot Regression

Marcin Sendera · Jacek Tabor · Aleksandra Nowak · Andrzej Bedychaj · Massimiliano Patacchiola · Tomasz Trzcinski · Przemysław Spurek · Maciej Zieba

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Reducing Information Bottleneck for Weakly Supervised Semantic Segmentation

Jungbeom Lee · Jooyoung Choi · Jisoo Mok · Sungroh Yoon

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Neural View Synthesis and Matching for Semi-Supervised Few-Shot Learning of 3D Pose

Angtian Wang · Shenxiao Mei · Alan Yuille · Adam Kortylewski

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Deformable Butterfly: A Highly Structured and Sparse Linear Transform	
Rui Lin · Jie Ran · King Hung Chiu · Graziano Chesi · Ngai Wong	In Poster Session 1
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Attention Bottlenecks for Multimodal Fusion	
Arsha Nagrani · Shan Yang · Anurag Arnab · Aren Jansen · Cordelia Schmid · Chen Sun	In Poster Session 1
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Meta-Learning the Search Distribution of Black-Box Random Search Based Adversarial Attacks	
Maksym Yatsura · Jan Metzen · Matthias Hein	In Poster Session 1
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Sparse Deep Learning: A New Framework Immune to Local Traps and Miscalibration	
Yan Sun · Wenjun Xiong · Faming Liang	In Poster Session 1
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The decomposition of the higher-order homology embedding constructed from the k-Laplacian	
Yu-Chia Chen · Marina Meila	In Poster Session 1
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R-Drop: Regularized Dropout for Neural Networks	
xiaobo liang · Lijun Wu · Juntao Li · Yue Wang · Qi Meng · Tao Qin · Wei Chen · Min Zhang · Tie-Yan Liu	In Poster Session 1
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On Margin-Based Cluster Recovery with Oracle Queries	
Marco Bressan · Nicolò Cesa-Bianchi · Silvio Lattanzi · Andrea Paudice	In Poster Session 1
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On the Rate of Convergence of Regularized Learning in Games: From Bandits and Uncertainty to Optimism and Beyond	
Angeliki Giannou · Emmanouil-Vasileios Vlatakis-Gkaragkounis · Panayotis Mertikopoulos	In Poster Session 1
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Implicit Task-Driven Probability Discrepancy Measure for Unsupervised Domain Adaptation	
Mao Li · Kaiqi Jiang · Xinhua Zhang	In Poster Session 1
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Overcoming the Convex Barrier for Simplex Inputs

Harkirat Singh Behl · M. Pawan Kumar · Philip Torr · Krishnamurthy Dvijotham

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VidLanKD: Improving Language Understanding via Video-Distilled Knowledge Transfer

Zineng Tang · Jaemin Cho · Hao Tan · Mohit Bansal

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SurvITE: Learning Heterogeneous Treatment Effects from Time-to-Event Data

Alicia Curth · Changhee Lee · Mihaela van der Schaar

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An Exact Characterization of the Generalization Error for the Gibbs Algorithm

Gholamali Aminian · Yuheng Bu · Laura Toni · Miguel Rodrigues · Gregory Wornell

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A sampling-based circuit for optimal decision making

Camille Rullán Buxó · Cristina Savin

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Learning Equilibria in Matching Markets from Bandit Feedback

Meena Jagadeesan · Alexander Wei · Yixin Wang · Michael Jordan · Jacob Steinhardt

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SIMONe: View-Invariant, Temporally-Abstracted Object Representations via Unsupervised Video Decomposition

Rishabh Kabra · Daniel Zoran · Goker Erdogan · Loic Matthey · Antonia Creswell · Matt Botvinick · Alexander Lerchner · Chris Burgess

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Optimal Order Simple Regret for Gaussian Process Bandits

Sattar Vakili · Nacime Bouziani · Sepehr Jalali · Alberto Bernacchia · Da-shan Shiu

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Learning rule influences recurrent network representations but not attractor structure in decision-making tasks

Brandon McMahan · Michael Kleinman · Jonathan Kao

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Multimodal Virtual Point 3D Detection

Tianwei Yin · Xingyi Zhou · Philipp Krähenbühl

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Residual2Vec: Debiasing graph embedding with random graphs

Sadamori Kojaku · Jisung Yoon · Isabel Constantino · Yong-Yeol Ahn

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Adversarial Graph Augmentation to Improve Graph Contrastive Learning

Susheel Suresh · Pan Li · Cong Hao · Jennifer Neville

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Fast Training of Neural Lumigraph Representations using Meta Learning

Alexander Bergman · Petr Kellnhofer · Gordon Wetzstein

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Why Generalization in RL is Difficult: Epistemic POMDPs and Implicit Partial Observability

Dibya Ghosh · Jad Rahme · Aviral Kumar · Amy Zhang · Ryan Adams · Sergey Levine

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Partition and Code: learning how to compress graphs

Giorgos Bouritsas · Andreas Loukas · Nikolaos Karalias · Michael Bronstein

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An analysis of Ermakov-Zolotukhin quadrature using kernels

Ayoub Belhadji

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Aligning Silhouette Topology for Self-Adaptive 3D Human Pose Recovery

Ramesha Rakesh Mugaludi · Jogendra Nath Kundu · Varun Jampani · Venkatesh Babu R

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Revisiting Deep Learning Models for Tabular Data

Yury Gorishniy · Ivan Rubachev · Valentin Khrulkov · Artem Babenko

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Correlated Stochastic Block Models: Exact Graph Matching with Applications to Recovering Communities

Miklos Racz · Anirudh Sridhar

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Relative stability toward diffeomorphisms indicates performance in deep nets

Leonardo Petrini · Alessandro Favero · Mario Geiger · Matthieu Wyart

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InfoGCL: Information-Aware Graph Contrastive Learning

Dongkuan Xu · Wei Cheng · Dongsheng Luo · Haifeng Chen · Xiang Zhang

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Spot the Difference: Detection of Topological Changes via Geometric Alignment

Per Steffen Czolbe · Aasa Feragen · Oswin Krause

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The Difficulty of Passive Learning in Deep Reinforcement Learning

Georg Ostrovski · Pablo Samuel Castro · Will Dabney

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Robustness between the worst and average case

Leslie Rice · Anna Bair · Huan Zhang · J. Zico Kolter

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Stabilizing Dynamical Systems via Policy Gradient Methods

Juan Perdomo · Jack Umenberger · Max Simchowitz

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Tighter Expected Generalization Error Bounds via Wasserstein Distance

Borja Rodríguez Gálvez · German Bassi · Ragnar Thobaben · Mikael Skoglund

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Do Wider Neural Networks Really Help Adversarial Robustness?

Boxi Wu · Jinghui Chen · Deng Cai · Xiaofei He · Quanquan Gu

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Locality defeats the curse of dimensionality in convolutional teacher-student scenarios

Alessandro Favero · Francesco Cagnetta · Matthieu Wyart

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A Causal Lens for Controllable Text Generation

Zhiteng Hu · Li Erran Li

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Fractal Structure and Generalization Properties of Stochastic Optimization Algorithms

Alexander Camuto · George Deligiannidis · Murat Erdogan · Mert Gurbuzbalaban · Umut Simsekli · Lingjiong Zhu In Poster Session 1

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Gradient-based Hyperparameter Optimization Over Long Horizons

Paul Micaelli · Amos Storkey

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Scallop: From Probabilistic Deductive Databases to Scalable Differentiable Reasoning

Jiani Huang · Ziyang Li · Binghong Chen · Karan Samel · Mayur Naik · Le Song · Xujie Si

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A Domain-Shrinking based Bayesian Optimization Algorithm with Order-Optimal Regret Performance

Sudeep Salgia · Sattar Vakili · Qing Zhao

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Fast Approximation of the Sliced-Wasserstein Distance Using Concentration of Random Projections

Kimia Nadjahi · Alain Durmus · Pierre E Jacob · Roland Badeau · Umut Simsekli

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DOBF: A Deobfuscation Pre-Training Objective for Programming Languages

Marie-Anne Lachaux · Baptiste Roziere · Marc Szafraniec · Guillaume Lample

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Learning-to-learn non-convex piecewise-Lipschitz functions

Maria-Florina Balcan · Mikhail Khodak · Dravyansh Sharma · Ameet Talwalkar

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A first-order primal-dual method with adaptivity to local smoothness

Maria-Luiza Vladarean · Yura Malitsky · Volkan Cevher

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Panoptic 3D Scene Reconstruction From a Single RGB Image

Manuel Dahnert · Ji Hou · Matthias Niessner · Angela Dai

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A Closer Look at the Worst-case Behavior of Multi-armed Bandit Algorithms

Anand Kalvit · Assaf Zeevi

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Exploiting a Zoo of Checkpoints for Unseen Tasks

Jiaji Huang · Qiang Qiu · Kenneth Church

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Moser Flow: Divergence-based Generative Modeling on Manifolds

Noam Rozen · Aditya Grover · Maximilian Nickel · Yaron Lipman

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Deep inference of latent dynamics with spatio-temporal super-resolution using selective backpropagation through time

Feng Zhu · Andrew Sedler · Harrison A Grier · Nauman Ahad · Mark Davenport · Matthew Kaufman · Andrea Giovannucci · Chethan Pandarinath

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Optimal Best-Arm Identification Methods for Tail-Risk Measures

Shubhada Agrawal · Wouter Koolen · Sandeep Juneja

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Optimal Gradient-based Algorithms for Non-concave Bandit Optimization

Baihe Huang · Kaixuan Huang · Sham Kakade · Jason Lee · Qi Lei · Runzhe Wang · Jiaqi Yang

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Numerical influence of ReLU'(0) on backpropagation

David Bertoin · Jérôme Bolte · Sébastien Gerchinovitz · Edouard Pauwels

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Nonsmooth Implicit Differentiation for Machine-Learning and Optimization

Jérôme Bolte · Tam Le · Edouard Pauwels · Tony Silveti-Falls

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DiBS: Differentiable Bayesian Structure Learning

Lars Lorch · Jonas Rothfuss · Bernhard Schölkopf · Andreas Krause

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Estimating Multi-cause Treatment Effects via Single-cause Perturbation

Zhaozhi Qian · Alicia Curth · Mihaela van der Schaar

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[Slides] [ OpenReview]

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Policy Finetuning: Bridging Sample-Efficient Offline and Online Reinforcement Learning

Tengyang Xie · Nan Jiang · Huan Wang · Caiming Xiong · Yu Bai

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An Empirical Investigation of Domain Generalization with Empirical Risk Minimizers

Ramakrishna Vedantam · David Lopez-Paz · David Schwab

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Generalized Depthwise-Separable Convolutions for Adversarially Robust and Efficient Neural Networks

Hassan Dbouk · Naresh Shanbhag

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Multilingual Pre-training with Universal Dependency Learning

Kailai Sun · Zuchao Li · Hai Zhao

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Computer-Aided Design as Language

Yaroslav Ganin · Sergey Bartunov · Yujia Li · Ethan Keller · Stefano Saliceti

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Scaling Vision with Sparse Mixture of Experts

Carlos Riquelme · Joan Puigcerver · Basil Mustafa · Maxim Neumann · Rodolphe Jenatton · André Susano Pinto
· Daniel Keysers · Neil Houlsby

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Can Information Flows Suggest Targets for Interventions in Neural Circuits?

Praveen Venkatesh · Sanghamitra Dutta · Neil Mehta · Pulkit Grover

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Behavior From the Void: Unsupervised Active Pre-Training

Hao Liu · Pieter Abbeel

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Training for the Future: A Simple Gradient Interpolation Loss to Generalize Along Time

Anshul Nasery · Soumyadeep Thakur · Vihari Piratla · Abir De · Sunita Sarawagi

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Pure Exploration in Kernel and Neural Bandits

Yinglun Zhu · Dongruo Zhou · Ruoxi Jiang · Quanquan Gu · Rebecca Willett · Robert Nowak

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Analytical Study of Momentum-Based Acceleration Methods in Paradigmatic High-Dimensional Non-Convex Problems

Stefano Sarao Mannelli · Pierfrancesco Urbani

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Design of Experiments for Stochastic Contextual Linear Bandits

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SyncTwin: Treatment Effect Estimation with Longitudinal Outcomes

Zhaozhi Qian · Yao Zhang · Ioana Bica · Angela Wood · Mihaela van der Schaar

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Multi-armed Bandit Requiring Monotone Arm Sequences

Ningyuan Chen

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Convolutional Normalization: Improving Deep Convolutional Network Robustness and Training

Sheng Liu · Xiao Li · Yuexiang Zhai · Chong You · Zhihui Zhu · Carlos Fernandez-Granda · Qing Qu

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Deep Reinforcement Learning at the Edge of the Statistical Precipice

Rishabh Agarwal · Max Schwarzer · Pablo Samuel Castro · Aaron Courville · Marc Bellemare

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Multi-modal Dependency Tree for Video Captioning

Wentian Zhao · Xinxiao Wu · Jiebo Luo

In Poster Session 1

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Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Nested Variational Inference

Heiko Zimmermann · Hao Wu · Babak Esmaeili · Jan-Willem van de Meent

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Reusing Combinatorial Structure: Faster Iterative Projections over Submodular Base Polytopes

Jai Moondra · Hassan Mortagy · Swati Gupta

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

The Causal-Neural Connection: Expressiveness, Learnability, and Inference

Kevin Xia · Kai-Zhan Lee · Yoshua Bengio · Elias Bareinboim

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Offline Model-based Adaptable Policy Learning

Xiong-Hui Chen · Yang Yu · Qingyang Li · Fan-Ming Luo · Zhiwei Qin · Wenjie Shang · Jieping Ye

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Towards Enabling Meta-Learning from Target Models

Su Lu · Han-Jia Ye · Le Gan · De-Chuan Zhan

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Object-aware Contrastive Learning for Debiased Scene Representation

Sangwoo Mo · Hyunwoo Kang · Kihyuk Sohn · Chun-Liang Li · Jinwoo Shin

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Volume Rendering of Neural Implicit Surfaces

Lior Yariv · Jiatao Gu · Yoni Kasten · Yaron Lipman

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST) @ Virtual

Poster

Validation Free and Replication Robust Volume-based Data Valuation

Xinyi Xu · Zhaoxuan Wu · Chuan Sheng Foo · Bryan Kian Hsiang Low

In Poster Session 1

[Slides] [ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Online Matching in Sparse Random Graphs: Non-Asymptotic Performances of Greedy Algorithm

Nathan Noiry · Vianney Perchet · Flore Sentenac

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST) @ Virtual

Poster

Unsupervised Part Discovery from Contrastive Reconstruction

Subhabrata Choudhury · Iro Laina · Christian Rupprecht · Andrea Vedaldi

In Poster Session 1

[Slides] [ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Probing Inter-modality: Visual Parsing with Self-Attention for Vision-and-Language Pre-training

Hongwei Xue · Yupan Huang · Bei Liu · Houwen Peng · Jianlong Fu · Houqiang Li · Jiebo Luo

In Poster Session 1

[ OpenReview]

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Poster

Improving Robustness using Generated Data

Sven Gowal · Sylvestre-Alvise Rebuffi · Olivia Wiles · Florian Stimberg · Dan Andrei Calian · Timothy A Mann

In Poster Session 1

[Slides]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Equilibrium and non-Equilibrium regimes in the learning of Restricted Boltzmann Machines

Aurélien Decelle · Cyril Furtlechner · Beatriz Seoane

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Achieving Forgetting Prevention and Knowledge Transfer in Continual Learning

Zixuan Ke · Bing Liu · Nianzu Ma · Hu Xu · Lei Shu

In Poster Session 1

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Unsupervised Object-Based Transition Models For 3D Partially Observable Environments

Antonia Creswell · Rishabh Kabra · Chris Burgess · Murray Shanahan

In Poster Session 1

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Recursive Bayesian Networks: Generalising and Unifying Probabilistic Context-Free Grammars and Dynamic Bayesian Networks

Robert Lieck · Martin Rohrmeier

In Poster Session 1

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Adversarial Examples for k-Nearest Neighbor Classifiers Based on Higher-Order Voronoi Diagrams

Chawin Sitawarin · Evgenios Kornaropoulos · Dawn Song · David Wagner

In Poster Session 1

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Meta Learning Backpropagation And Improving It

Louis Kirsch · Jürgen Schmidhuber

In Poster Session 1

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Residual Relaxation for Multi-view Representation Learning

Yifei Wang · Zhengyang Geng · Feng Jiang · Chuming Li · Yisen Wang · Jiansheng Yang · Zhouchen Lin

In Poster Session 1

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Double Machine Learning Density Estimation for Local Treatment Effects with Instruments

Yonghan Jung · Jin Tian · Elias Bareinboim

In Poster Session 1

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Poster

TTT++: When Does Self-Supervised Test-Time Training Fail or Thrive?

Yuejiang Liu · Parth Kothari · Bastien van Delft · Baptiste Bellot-Gurlet · Taylor Mordan · Alexandre Alahi

In Poster Session 1

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

A Continuous Mapping For Augmentation Design

Keyu Tian · Chen Lin · Ser Nam Lim · Wanli Ouyang · Puneet Dokania · Philip Torr

In Poster Session 1

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Collaborative Causal Discovery with Atomic Interventions

Raghavendra Addanki · Shiva Kasiviswanathan

In Poster Session 1

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Data Augmentation Can Improve Robustness

Sylvestre-Alvise Rebuffi · Sven Gowal · Dan Andrei Calian · Florian Stimberg · Olivia Wiles · Timothy A Mann In Poster Session 1

[ OpenReview]

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Poster

On Memorization in Probabilistic Deep Generative Models

Gerrit van den Burg · Chris Williams

In Poster Session 1

[ OpenReview]

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Poster

BCD Nets: Scalable Variational Approaches for Bayesian Causal Discovery

Chris Cundy · Aditya Grover · Stefano Ermon

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

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Refining Language Models with Compositional Explanations

Huihan Yao · Ying Chen · Qinyuan Ye · Xisen Jin · Xiang Ren

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

SE(3)-equivariant prediction of molecular wavefunctions and electronic densities

Oliver Unke · Mihail Bogojeski · Michael Gastegger · Mario Geiger · Tess Smidt · Klaus-Robert Müller

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Analysis of one-hidden-layer neural networks via the resolvent method

Vanessa Piccolo · Dominik Schröder

In Poster Session 1

[ OpenReview]

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Poster

Fast and accurate randomized algorithms for low-rank tensor decompositions

Linjian Ma · Edgar Solomonik

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Identification and Estimation of Joint Probabilities of Potential Outcomes in

Observational Studies with Covariate Information

Ryusei Shingaki · manabu kuroki

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

3DP3: 3D Scene Perception via Probabilistic Programming

Nishad Gothoskar · Marco Cusumano-Towner · Ben Zinberg · Matin Ghavamizadeh · Falk Pollok · Austin Garrett In Poster Session 1
· Josh Tenenbaum · Dan Gutfreund · Vikash Mansinghka

[ OpenReview]

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Poster

Weisfeiler and Lehman Go Cellular: CW Networks

Cristian Bodnar · Fabrizio Frasca · Nina Otter · Yuguang Wang · Pietro Liò · Guido Montufar · Michael Bronstein In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST) Poster

Across-animal odor decoding by probabilistic manifold alignment

Pedro Herrero-Vidal · Dmitry Rinberg · Cristina Savin

In Poster Session 1

[ OpenReview]

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Dueling Bandits with Team Comparisons

Lee Cohen · Ulrike Schmidt-Kraepelin · Yishay Mansour

In Poster Session 1

[Slides] [ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST) Poster

Score-based Generative Neural Networks for Large-Scale Optimal Transport

Grady Daniels · Tyler Maunu · Paul Hand

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST) Poster

Unique sparse decomposition of low rank matrices

Dian Jin · Xin Bing · Yuqian Zhang

In Poster Session 1

[ OpenReview]

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A Theory of the Distortion-Perception Tradeoff in Wasserstein Space

Dror Freirich · Tomer Michaeli · Ron Meir

In Poster Session 1

[ OpenReview]

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Synthetic Design: An Optimization Approach to Experimental Design with Synthetic Controls

Nick Doudchenko · Khashayar Khosravi · Jean Pouget-Abadie · Sébastien Lahaie · Miles Lubin · Vahab Mirrokni In Poster Session 1
· Jann Spiess · guido imbens

[ OpenReview]

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A Kernel-based Test of Independence for Cluster-correlated Data

Hongjiao Liu · Anna Plantinga · Yunhua Xiang · Michael Wu

In Poster Session 1

[ OpenReview]

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A Little Robustness Goes a Long Way: Leveraging Robust Features for Targeted Transfer Attacks

Jacob Springer · Melanie Mitchell · Garrett Kenyon

In Poster Session 1

[ OpenReview]

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Provably Efficient Causal Reinforcement Learning with Confounded Observational Data

Lingxiao Wang · Zhuoran Yang · Zhaoran Wang

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST) @ Virtual Poster

Interpretable agent communication from scratch (with a generic visual processor emerging on the side)

Roberto Dessi · Eugene Kharitonov · Baroni Marco

In Poster Session 1

[Slides] [ OpenReview]

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On Inductive Biases for Heterogeneous Treatment Effect Estimation

Alicia Curth · Mihaela van der Schaar

In Poster Session 1

[ OpenReview]

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Poster

Adversarial Robustness without Adversarial Training: A Teacher-Guided Curriculum Learning Approach

Anindya Sarkar · Anirban Sarkar · Sowrya Gali · Vineeth N Balasubramanian

In Poster Session 1

[Slides] [ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Do Vision Transformers See Like Convolutional Neural Networks?

Maithra Raghu · Thomas Unterthiner · Simon Kornblith · Chiyuan Zhang · Alexey Dosovitskiy

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

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SOLQ: Segmenting Objects by Learning Queries

Bin Dong · Fangao Zeng · Tiancai Wang · Xiangyu Zhang · Yichen Wei

In Poster Session 1

[ OpenReview]

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Poster

Passive attention in artificial neural networks predicts human visual selectivity

Thomas Langlois · Haicheng Zhao · Erin Grant · Ishita Dasgupta · Tom Griffiths · Nori Jacoby

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Biological learning in key-value memory networks

Danil Tyulmankov · Ching Fang · Annapurna Vadaparty · Guangyu Robert Yang

In Poster Session 1

[ OpenReview]

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Poster

Snowflake: Scaling GNNs to high-dimensional continuous control via parameter freezing

Charles Blake · Vitaly Kurin · Maximilian Igl · Shimon Whiteson

In Poster Session 1

[ OpenReview]

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Poster

Causal-BALD: Deep Bayesian Active Learning of Outcomes to Infer Treatment-Effects from Observational Data

Andrew Jesson · Panagiotis Tigas · Joost van Amersfoort · Andreas Kirsch · Uri Shalit · Yarin Gal

In Poster Session 1

[ OpenReview]

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Improving Calibration through the Relationship with Adversarial Robustness

Yao Qin · Xuezhi Wang · Alex Beutel · Ed Chi

In Poster Session 1

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Poster

Scalable Diverse Model Selection for Accessible Transfer Learning

Daniel Bolya · Rohit Mittapalli · Judy Hoffman

In Poster Session 1

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Offline RL Without Off-Policy Evaluation

David Brandfonbrener · Will Whitney · Rajesh Ranganath · Joan Bruna

In Poster Session 1

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Accurate Point Cloud Registration with Robust Optimal Transport

Zhengyang Shen · Jean Feydy · Peirong Liu · Ariel H Curiale · Ruben San Jose Estepar · Raul San Jose Estepar
· Marc Niethammer

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Vector-valued Gaussian Processes on Riemannian Manifolds via Gauge Independent Projected Kernels

Michael Hutchinson · Alexander Terenin · Viacheslav Borovitskiy · So Takao · Yee Teh · Marc Deisenroth

In Poster Session 1

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Poster

Generalizable Imitation Learning from Observation via Inferring Goal Proximity

Youngwoon Lee · Andrew Szot · Shao-Hua Sun · Joseph Lim

In Poster Session 1

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Poster

On Success and Simplicity: A Second Look at Transferable Targeted Attacks

Zhengyu Zhao · Zhuoran Liu · Martha Larson

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Poster

A-NeRF: Articulated Neural Radiance Fields for Learning Human Shape, Appearance, and Pose

Shih-Yang Su · Frank Yu · Michael Zollhoefer · Helge Rhodin

In Poster Session 1

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Poster

Reverse-Complement Equivariant Networks for DNA Sequences

Vincent Mallet · Jean-Philippe Vert

In Poster Session 1

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Adversarial Examples Make Strong Poisons

Liam Fowl · Micah Goldblum · Ping-yeh Chiang · Jonas Geiping · Wojciech Czaja · Tom Goldstein

In Poster Session 1

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Semi-Supervised Semantic Segmentation via Adaptive Equalization Learning

Hanzhe Hu · Fangyun Wei · Han Hu · Qiwei Ye · Jinshi Cui · Liwei Wang

In Poster Session 1

[ OpenReview]

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Poster

Impression learning: Online representation learning with synaptic plasticity

Colin Bredenberg · Benjamin Lyo · Eero Simoncelli · Cristina Savin

In Poster Session 1

[ OpenReview]

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Conditioning Sparse Variational Gaussian Processes for Online Decision-making

Wesley Maddox · Samuel Stanton · Andrew Wilson

In Poster Session 1

[Slides] [ OpenReview]

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Poster

Explaining Hyperparameter Optimization via Partial Dependence Plots

Julia Moosbauer · Julia Herbinger · Giuseppe Casalicchio · Marius Lindauer · Bernd Bischl

In Poster Session 1

[ OpenReview]

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Poster

Stochastic Solutions for Linear Inverse Problems using the Prior Implicit in a Denoiser

Zahra Kadkhodaie · Eero Simoncelli

In Poster Session 1

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Poster

Can fMRI reveal the representation of syntactic structure in the brain?

Aniketh Janardhan Reddy · Leila Wehbe

In Poster Session 1

[ OpenReview]

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Tractable Regularization of Probabilistic Circuits

Anji Liu · Guy Van den Broeck

In Poster Session 1

[ OpenReview]

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Poster

Statistical Regeneration Guarantees of the Wasserstein Autoencoder with Latent Space

Consistency

Anish Chakrabarty · Swagatam Das

In Poster Session 1

[ OpenReview]

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Poster

MarioNette: Self-Supervised Sprite Learning

Dmitriy Smirnov · MICHAEL GHARBI · Matthew Fisher · Vitor Guizilini · Alexei Efros · Justin Solomon

In Poster Session 1

[ OpenReview]

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Poster

Confident Anchor-Induced Multi-Source Free Domain Adaptation

Jiahua Dong · Zhen Fang · Anjin Liu · Gan Sun · Tongliang Liu

In Poster Session 1

[Slides] [ OpenReview]

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Encoding Robustness to Image Style via Adversarial Feature Perturbations

Manli Shu · Zuxuan Wu · Micah Goldblum · Tom Goldstein

In Poster Session 1

[ OpenReview]

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Poster

Learning with Algorithmic Supervision via Continuous Relaxations

Felix Petersen · Christian Borgelt · Hilde Kuehne · Oliver Deussen

In Poster Session 1

[ OpenReview]

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Online Convex Optimization with Continuous Switching Constraint

Guanghui Wang · Yuanyu Wan · Tianbao Yang · Lijun Zhang

In Poster Session 1

[ OpenReview]

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Poster

Time Discretization-Invariant Safe Action Repetition for Policy Gradient Methods

Seohong Park · Jaekyeom Kim · Gunhee Kim

In Poster Session 1

[ OpenReview]

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Poster

Bubblewrap: Online tiling and real-time flow prediction on neural manifolds

Anne Draelos · Pranjal Gupta · Na Young Jun · Chaichontat Sriworarat · John Pearson

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Dynamic population-based meta-learning for multi-agent communication with natural language

Abhinav Gupta · Marc Lanctot · Angeliki Lazaridou

In Poster Session 1

[ OpenReview]

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Unsupervised Noise Adaptive Speech Enhancement by Discriminator-Constrained Optimal Transport

Hsin-Yi Lin · Huan-Hsin Tseng · Xugang Lu · Yu Tsao

In Poster Session 1

[ OpenReview]

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Poster

Heterogeneous Multi-player Multi-armed Bandits: Closing the Gap and Generalization

Chengshuai Shi · Wei Xiong · Cong Shen · Jing Yang

In Poster Session 1

[ OpenReview]

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Human-Adversarial Visual Question Answering

Sasha Sheng · Amanpreet Singh · Vedanuj Goswami · Jose Magana · Tristan Thrush · Wojciech Galuba · Devi Parikh · Douwe Kiela

[Slides] [ OpenReview]

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Poster

Random Shuffling Beats SGD Only After Many Epochs on Ill-Conditioned Problems

Itay Safran · Ohad Shamir

In Poster Session 1

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Matrix factorisation and the interpretation of geodesic distance	
Nick Whiteley · Annie Gray · Patrick Rubin-Delanchy	In Poster Session 1
[ OpenReview]	
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Marginalised Gaussian Processes with Nested Sampling	
Fergus Simpson · Vidhi Lalchand · Carl Edward Rasmussen	In Poster Session 1
[ OpenReview]	
Tue Dec 07 08:30 AM -- 10:00 AM (PST)	Poster
COCO-LM: Correcting and Contrasting Text Sequences for Language Model Pretraining	
Yu Meng · Chenyan Xiong · Payal Bajaj · saurabh tiwary · Paul Bennett · Jiawei Han · XIA SONG	In Poster Session 1
[ OpenReview]	
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Leveraging Distribution Alignment via Stein Path for Cross-Domain Cold-Start Recommendation	
Weiming Liu · Jiajie Su · Chaochao Chen · Xiaolin Zheng	In Poster Session 1
[ OpenReview]	
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One Question Answering Model for Many Languages with Cross-lingual Dense Passage Retrieval	
Akari Asai · Xinyan Yu · Jungo Kasai · Hanna Hajishirzi	In Poster Session 1
[ OpenReview]	
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Optimal Rates for Nonparametric Density Estimation under Communication Constraints	
Jayadev Acharya · Clement Canonne · Aditya Vikram Singh · Himanshu Tyagi	In Poster Session 1
[ OpenReview]	
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Fast Certified Robust Training with Short Warmup	
Zhouxing Shi · Yihan Wang · Huan Zhang · Jinfeng Yi · Cho-Jui Hsieh	In Poster Session 1
[ OpenReview]	
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Statistically and Computationally Efficient Linear Meta-representation Learning	
Kiran Thekumpampil · Prateek Jain · Praneeth Netrapalli · Sewoong Oh	In Poster Session 1
[ OpenReview]	
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Grounding Spatio-Temporal Language with Transformers	
Tristan Karch · Laetitia Teodorescu · Katja Hofmann · Clément Moulin-Frier · Pierre-Yves Oudeyer	In Poster Session 1
[ OpenReview]	
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Your head is there to move you around: Goal-driven models of the primate dorsal pathway	

[ OpenReview]

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Poster

Escape saddle points by a simple gradient-descent based algorithm

Chenyi Zhang · Tongyang Li

In Poster Session 1

[Slides] [ OpenReview]

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Poster

Language models enable zero-shot prediction of the effects of mutations on protein function

Joshua Meier · Roshan Rao · Robert Verkuil · Jason Liu · Tom Sercu · Alex Rives

In Poster Session 1

[ OpenReview]

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Poster

VATT: Transformers for Multimodal Self-Supervised Learning from Raw Video, Audio and Text

Hassan Akbari · Liangzhe Yuan · Rui Qian · Wei-Hong Chuang · Shih-Fu Chang · Yin Cui · Boqing Gong

In Poster Session 1

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Dangers of Bayesian Model Averaging under Covariate Shift

Pavel Izmailov · Patrick Nicholson · Sanae Lotfi · Andrew Wilson

In Poster Session 1

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Poster

Delayed Gradient Averaging: Tolerate the Communication Latency for Federated Learning

Ligeng Zhu · Hongzhou Lin · Yao Lu · Yujun Lin · Song Han

In Poster Session 1

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The effectiveness of feature attribution methods and its correlation with automatic evaluation scores

Giang Nguyen · Daeyoung Kim · Anh Nguyen

In Poster Session 1

[Slides] [ OpenReview]

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Grad2Task: Improved Few-shot Text Classification Using Gradients for Task Representation

Jixuan Wang · Kuan-Chieh Wang · Frank Rudzicz · Michael Brudno

In Poster Session 1

[Slides] [ OpenReview]

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Bayesian Optimization with High-Dimensional Outputs

Wesley Maddox · Maximilian Balandat · Andrew Wilson · Eytan Bakshy

In Poster Session 1

[Slides] [ OpenReview]

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BulletTrain: Accelerating Robust Neural Network Training via Boundary Example Mining

Weizhe Hua · Yichi Zhang · Chuan Guo · Zhiru Zhang · G. Edward Suh

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Submodular + Concave

Siddharth Mitra · Moran Feldman · Amin Karbasi

In Poster Session 1

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Invariance Principle Meets Information Bottleneck for Out-of-Distribution Generalization

Kartik Ahuja · Ethan Caballero · Dinghuai Zhang · Jean-Christophe Gagnon-Audet · Yoshua Bengio · Ioannis Mitliagkas · Irina Rish

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Online Multi-Armed Bandits with Adaptive Inference

Maria Dimakopoulou · Zhimei Ren · Zhengyuan Zhou

In Poster Session 1

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Adversarial Attacks on Black Box Video Classifiers: Leveraging the Power of Geometric Transformations

Shasha Li · Abhishek Aich · Shitong Zhu · Salman Asif · Chengyu Song · Amit Roy-Chowdhury · Srikanth Krishnamurthy

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Early Convolutions Help Transformers See Better

Tete Xiao · Mannat Singh · Eric Mintun · Trevor Darrell · Piotr Dollar · Ross Girshick

In Poster Session 1

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Poster

Adversarially Robust Change Point Detection

Mengchu Li · Yi Yu

In Poster Session 1

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Poster

Streaming Belief Propagation for Community DetectionYuchen Wu · Jakab Tardos · Mohammadhosseini Bateni · André Linhares · Filipe Miguel Goncalves de Almeida · In Poster Session 1
Andrea Montanari · Ashkan Norouzi-Fard

Tue Dec 07 08:30 AM -- 10:00 AM (PST)

Poster

Iterative Amortized Policy Optimization

Joseph Marino · Alexandre Piche · Alessandro Davide Ialongo · Yisong Yue

In Poster Session 1

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Poster

Online learning in MDPs with linear function approximation and bandit feedback.

Gergely Neu · Julia Olkhovskaya

In Poster Session 1

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Dynamic Bottleneck for Robust Self-Supervised Exploration

Chenjia Bai · Lingxiao Wang · Lei Han · Animesh Garg · Jianye Hao · Peng Liu · Zhaoran Wang

In Poster Session 1

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Neural Hybrid Automata: Learning Dynamics With Multiple Modes and Stochastic Transitions

Michael Poli · Stefano Massaroli · Luca Scimeca · Sanghyuk Chun · Seong Joon Oh · Atsushi Yamashita · Hajime Asama · Jinkyoo Park · Animesh Garg

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Long-Short Transformer: Efficient Transformers for Language and Vision

Chen Zhu · Wei Ping · Chaowei Xiao · Mohammad Shoeybi · Tom Goldstein · Anima Anandkumar · Bryan Catanzaro

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Online Learning and Control of Complex Dynamical Systems from Sensory Input

Oumayma Bounou · Jean Ponce · Justin Carpentier

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Neural Population Geometry Reveals the Role of Stochasticity in Robust Perception

Joel Dapello · Jenelle Feather · Hang Le · Tiago Marques · David Cox · Josh McDermott · James J DiCarlo · Sueyeon Chung

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On Episodes, Prototypical Networks, and Few-Shot Learning

Steinar Laenen · Luca Bertinetto

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Spatio-Temporal Variational Gaussian Processes

Oliver Hamelijnck · William Wilkinson · Niki Loppi · Arno Solin · Theodoros Damoulas

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Online and Offline Reinforcement Learning by Planning with a Learned Model

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Learning One Representation to Optimize All Rewards

Ahmed Touati · Yann Ollivier

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The Unbalanced Gromov Wasserstein Distance: Conic Formulation and Relaxation

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Stochastic Online Linear Regression: the Forward Algorithm to Replace Ridge

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Neural Auto-Curricula in Two-Player Zero-Sum Games

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Regret Bounds for Gaussian-Process Optimization in Large Domains

Manuel Wuethrich · Bernhard Schölkopf · Andreas Krause

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Recovering Latent Causal Factor for Generalization to Distributional Shifts

Xinwei Sun · Botong Wu · Xiangyu Zheng · Chang Liu · Wei Chen · Tao Qin · Tie-Yan Liu

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Scalable Thompson Sampling using Sparse Gaussian Process Models

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Skipping the Frame-Level: Event-Based Piano Transcription With Neural Semi-CRFs

Yujia Yan · Frank Cwitkowitz · Zhiyao Duan

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Neural Ensemble Search for Uncertainty Estimation and Dataset Shift

Sheheryar Zaidi · Arber Zela · Thomas Elsken · Chris C Holmes · Frank Hutter · Yee Teh

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Meta-Learning Reliable Priors in the Function Space

Jonas Rothfuss · Dominique Heyn · jinfan Chen · Andreas Krause

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Comprehensive Knowledge Distillation with Causal Intervention

Xiang Deng · Zhongfei Zhang

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Stateful ODE-Nets using Basis Function Expansions

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The Inductive Bias of Quantum Kernels

Jonas Kübler · Simon Buchholz · Bernhard Schölkopf

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Predify: Augmenting deep neural networks with brain-inspired predictive coding dynamics

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Scalable Intervention Target Estimation in Linear Models

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MetaAvatar: Learning Animatable Clothed Human Models from Few Depth Images

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Bias Out-of-the-Box: An Empirical Analysis of Intersectional Occupational Biases in Popular Generative Language Models

Hannah Rose Kirk · yennie jun · Filippo Volpin · Haider Iqbal · Elias Benussi · Frederic Dreyer · Aleksandar Shtedritski · Yuki Asano

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Linear-Time Probabilistic Solution of Boundary Value Problems

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Near-Optimal Lower Bounds For Convex Optimization For All Orders of Smoothness

Ankit Garg · Robin Kothari · Praneeth Netrapalli · Suhail Sherif

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ReAct: Out-of-distribution Detection With Rectified Activations

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Sanity Checks for Lottery Tickets: Does Your Winning Ticket Really Win the Jackpot?

Xiaolong Ma · Geng Yuan · Xuan Shen · Tianlong Chen · Xuxi Chen · Xiaohan Chen · Ning Liu · Minghai Qin · Sijia Liu · Zhangyang Wang · Yanzhi Wang

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MEST: Accurate and Fast Memory-Economic Sparse Training Framework on the Edge

Geng Yuan · Xiaolong Ma · Wei Niu · Zhengang Li · Zhenglun Kong · Ning Liu · Yifan Gong · Zheng Zhan · Chaoyang He · Qing Jin · Siyue Wang · Minghai Qin · Bin Ren · Yanzhi Wang · Sijia Liu · Xue Lin

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Scaling Gaussian Processes with Derivative Information Using Variational Inference

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Adversarially robust learning for security-constrained optimal power flow

Priya Donti · Aayushya Agarwal · Neeraj Vijay Bedmutha · Larry Pileggi · J. Zico Kolter

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Adversarial Robustness with Non-uniform Perturbations

Ecenaz Erdemir · Jeffrey Bickford · Luca Melis · Sergul Aydore

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LeadCache: Regret-Optimal Caching in Networks

Debjit Paria · Abhishek Sinha

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Self-Supervised Learning with Data Augmentations Provably Isolates Content from Style

Julius von Kügelgen · Yash Sharma · Luigi Gresele · Wieland Brendel · Bernhard Schölkopf · Michel Besserve · Francesco Locatello

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Parallel Bayesian Optimization of Multiple Noisy Objectives with Expected Hypervolume Improvement

Samuel Daulton · Maximilian Balandat · Eytan Bakshy

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Adversarial Robustness with Semi-Infinite Constrained Learning

Alexander Robey · Luiz Chamon · George J. Pappas · Hamed Hassani · Alejandro Ribeiro

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Multi-Objective Meta Learning

Feiyang YE · Baijiong Lin · Zhixiong Yue · Pengxin Guo · Qiao Xiao · Yu Zhang

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Finding Optimal Tangent Points for Reducing Distortions of Hard-label Attacks

Chen Ma · Xiangyu Guo · Li Chen · Jun-Hai Yong · Yisen Wang

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A Critical Look at the Consistency of Causal Estimation with Deep Latent Variable Models

Severi Rissanen · Pekka Marttinen

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Towards Sample-efficient Overparameterized Meta-learning

Yue Sun · Adhyyan Narang · Ibrahim Gulluk · Samet Oymak · Maryam Fazel

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An Infinite-Feature Extension for Bayesian ReLU Nets That Fixes Their Asymptotic Overconfidence

Agustinus Kristiadi · Matthias Hein · Philipp Hennig

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Non-local Latent Relation Distillation for Self-Adaptive 3D Human Pose Estimation

Jogendra Nath Kundu · Siddharth Seth · Anirudh Jamkhandi · Pradyumna YM · Varun Jampani · Anirban Chakraborty · Venkatesh Babu R

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MAU: A Motion-Aware Unit for Video Prediction and Beyond

Zheng Chang · Xinfeng Zhang · Shanshe Wang · Siwei Ma · Yan Ye · Xiang Xinguang · Wen Gao

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Piper: Multidimensional Planner for DNN Parallelization

Jakub Tarnawski · Deepak Narayanan · Amar Phanishayee

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Post-Contextual-Bandit Inference

Aurelien Bibaut · Maria Dimakopoulou · Nathan Kallus · Antoine Chambaz · Mark van der Laan

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CrypTen: Secure Multi-Party Computation Meets Machine Learning

Brian Knott · Shobha Venkataraman · Awni Hannun · Shubho Sengupta · Mark Ibrahim · Laurens van der Maaten

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Adversarial Attacks on Graph Classifiers via Bayesian Optimisation

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Causal Effect Inference for Structured Treatments

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ReSSL: Relational Self-Supervised Learning with Weak Augmentation

Mingkai Zheng · Shan You · Fei Wang · Chen Qian · Changshui Zhang · Xiaogang Wang · Chang Xu

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Directed Spectrum Measures Improve Latent Network Models Of Neural Populations

Neil Gallagher · Kafui Dzirasa · David Carlson

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Matching a Desired Causal State via Shift Interventions

Jiaqi Zhang · Chandler Squires · Caroline Uhler

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Shapeshifter: a Parameter-efficient Transformer using Factorized Reshaped Matrices

Aliakbar Panahi · Seyran Saeedi · Tom Arodz

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Predicting What You Already Know Helps: Provable Self-Supervised Learning

Jason Lee · Qi Lei · Nikunj Saunshi · JIACHENG ZHUO

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A Winning Hand: Compressing Deep Networks Can Improve Out-of-Distribution Robustness

James Diffenderfer · Brian Bartoldson · Shreya Chaganti · Jize Zhang · Bhavya Kailkhura

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Spectral embedding for dynamic networks with stability guarantees

Ian Gallagher · Andrew Jones · Patrick Rubin-Delanchy

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Fast rates for prediction with limited expert advice

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NeRS: Neural Reflectance Surfaces for Sparse-view 3D Reconstruction in the Wild

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Understanding Adaptive, Multiscale Temporal Integration In Deep Speech Recognition Systems

Menoua Keshishian · Samuel Norman-Haignere · Nima Mesgarani

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Bootstrap Your Object Detector via Mixed Training

Mengde Xu · Zheng Zhang · Fangyun Wei · Yutong Lin · Yue Cao · Stephen Lin · Han Hu · Xiang Bai

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Efficient Bayesian network structure learning via local Markov boundary search

Ming Gao · Bryon Aragam

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Domain Invariant Representation Learning with Domain Density Transformations

A. Tuan Nguyen · Toan Tran · Yarin Gal · Atilim Gunes Baydin

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Generalization of Model-Agnostic Meta-Learning Algorithms: Recurring and Unseen Tasks

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Qimera: Data-free Quantization with Synthetic Boundary Supporting Samples

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SegFormer: Simple and Efficient Design for Semantic Segmentation with Transformers

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On Component Interactions in Two-Stage Recommender Systems

Jiri Hron · Karl Krauth · Michael Jordan · Niki Kilbertus

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PatchGame: Learning to Signal Mid-level Patches in Referential Games

Kamal Gupta · Gowthami Somepalli · Anubhav Anubhav · Vinoj Yasanga Jayasundara Magalle Hewa · Matthias Zwicker · Abhinav Shrivastava

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Revisiting ResNets: Improved Training and Scaling Strategies

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On Calibration and Out-of-Domain Generalization

Yoav Wald · Amir Feder · Daniel Greenfeld · Uri Shalit

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Robustness via Uncertainty-aware Cycle Consistency

Uddeshya Upadhyay · Yanbei Chen · Zeynep Akata

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NORESQA: A Framework for Speech Quality Assessment using Non-Matching

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Pranay Manocha · Buye Xu · Anurag Kumar

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Random Noise Defense Against Query-Based Black-Box Attacks

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TRS: Transferability Reduced Ensemble via Promoting Gradient Diversity and Model

Smoothness

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Deconditional Downscaling with Gaussian Processes

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Cockpit: A Practical Debugging Tool for the Training of Deep Neural Networks

Frank Schneider · Felix Dangel · Philipp Hennig

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How Does it Sound?

Kun Su · Xiulong Liu · Eli Shlizerman

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Interpolation can hurt robust generalization even when there is no noise

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BNS: Building Network Structures Dynamically for Continual Learning

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Bernhard Nessler · Sergei Pereverzyev · Bernhard A. Moser

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Off-Policy Risk Assessment in Contextual Bandits

Audrey Huang · Liu Leqi · Zachary Lipton · Kamyar Azizzadenesheli

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Row-clustering of a Point Process-valued Matrix

Lihao Yin · Ganggang Xu · Huiyan Sang · Yongtao Guan

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The Many Faces of Adversarial Risk

Muni Sreenivas Pydi · Varun Jog

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Cardinality-Regularized Hawkes-Granger Model

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Overinterpretation reveals image classification model pathologies

Brandon Carter · Siddhartha Jain · Jonas Mueller · David Gifford

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Neural Pseudo-Label Optimism for the Bank Loan Problem

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Generalization Bounds For Meta-Learning: An Information-Theoretic Analysis

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Reformulating Zero-shot Action Recognition for Multi-label Actions

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Training Neural Networks with Fixed Sparse Masks

Yi-Lin Sung · Varun Nair · Colin Raffel

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Editing a classifier by rewriting its prediction rules

Shibani Santurkar · Dimitris Tsipras · Mahalaxmi Elango · David Bau · Antonio Torralba · Aleksander Madry

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Tailoring: encoding inductive biases by optimizing unsupervised objectives at prediction time

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Efficient First-Order Contextual Bandits: Prediction, Allocation, and Triangular Discrimination

Dylan Foster · Akshay Krishnamurthy

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Monte Carlo Tree Search With Iteratively Refining State Abstractions

Samuel Sokota · Caleb Y Ho · Zaheen Ahmad · J. Zico Kolter

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Provable Model-based Nonlinear Bandit and Reinforcement Learning: Shelve Optimism, Embrace Virtual Curvature

Kefan Dong · Jiaqi Yang · Tengyu Ma

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Online Sign Identification: Minimization of the Number of Errors in Thresholding Bandits

Reda Ouhamma · Odalric-Ambrym Maillard · Vianney Perchet

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A unified framework for bandit multiple testing

Ziyu Xu · Ruodu Wang · Aaditya Ramdas

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Backward-Compatible Prediction Updates: A Probabilistic Approach

Frederik Träuble · Julius von Kügelgen · Matthäus Kleindessner · Francesco Locatello · Bernhard Schölkopf ·

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MICo: Improved representations via sampling-based state similarity for Markov decision processes

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Large-Scale Learning with Fourier Features and Tensor Decompositions

Frederiek Wesel · Kim Batselier

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Reliable Causal Discovery with Improved Exact Search and Weaker Assumptions

Ignavier Ng · Yujia Zheng · Jiji Zhang · Kun Zhang

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Teachable Reinforcement Learning via Advice Distillation

Olivia Watkins · Abhishek Gupta · Trevor Darrell · Pieter Abbeel · Jacob Andreas

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Bias and variance of the Bayesian-mean decoder

Arthur Prat-Carrabin · Michael Woodford

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Optimal Algorithms for Stochastic Contextual Preference Bandits

Aadirupa Saha

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Information Directed Sampling for Sparse Linear Bandits

Botao Hao · Tor Lattimore · Wei Deng

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A flow-based latent state generative model of neural population responses to natural images

Mohammad Bashiri · Edgar Walker · Konstantin-Klemens Lurz · Akshay Jagadish · Taliah Muhammad · Zhiwei Ding · Zhuokun Ding · Andreas Tolias · Fabian Sinz

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Recursive Causal Structure Learning in the Presence of Latent Variables and Selection Bias

Sina Akbari · Ehsan Mokhtarian · AmirEmad Ghassami · Negar Kiyavash

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Cortico-cerebellar networks as decoupling neural interfaces

Joseph Pemberton · Ellen Boven · Richard Apps · Rui Ponte Costa

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AC/DC: Alternating Compressed/DeCompressed Training of Deep Neural Networks

Alexandra Peste · Eugenia Iofinova · Adrian Vladu · Dan Alistarh

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Kernel Identification Through Transformers

Fergus Simpson · Ian Davies · Vidhi Lalchand · Alessandro Vullo · Nicolas Durrande · Carl Edward Rasmussen In Poster Session 1

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Factored Policy Gradients: Leveraging Structure for Efficient Learning in MOMDPs

Thomas Spooner · Nelson Vadoni · Sumitra Ganesh

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Autonomous Reinforcement Learning via Subgoal Curricula

Archit Sharma · Abhishek Gupta · Sergey Levine · Karol Hausman · Chelsea Finn

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Probabilistic Tensor Decomposition of Neural Population Spiking Activity

Hugo Soulat · Sepideh Keshavarzi · Troy Margrie · Maneesh Sahani

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Neural optimal feedback control with local learning rules

Johannes Friedrich · Siavash Golkar · Shiva Farashahi · Alexander Genkin · Anirvan Sengupta · Dmitri Chklovskii

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Counterfactual Invariance to Spurious Correlations in Text Classification

Victor Veitch · Alexander D'Amour · Steve Yadlowsky · Jacob Eisenstein

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Wisdom of the Crowd Voting: Truthful Aggregation of Voter Information and Preferences

Grant Schoenebeck · Biaoshuai Tao

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Generalization Bounds for Meta-Learning via PAC-Bayes and Uniform Stability

Alec Farid · Anirudha Majumdar

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Private learning implies quantum stability

Yihui Quek · Srinivasan Arunachalam · John A Smolin

In Poster Session 1

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Answering Complex Causal Queries With the Maximum Causal Set Effect

Zachary Markovich

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Generalized Jensen-Shannon Divergence Loss for Learning with Noisy Labels

Erik Englesson · Hossein Azizpour

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Process for Adapting Language Models to Society (PALMS) with Values-Targeted Datasets

Irene Solaiman · Christy Dennison

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Voxel-based 3D Detection and Reconstruction of Multiple Objects from a Single Image

Feng Liu · Xiaoming Liu

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Formalizing Generalization and Adversarial Robustness of Neural Networks to Weight Perturbations

Yu-Lin Tsai · Chia-Yi Hsu · Chia-Mu Yu · Pin-Yu Chen

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Credit Assignment Through Broadcasting a Global Error Vector

David Clark · L F Abbott · Sueyeon Chung

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On the Bias-Variance-Cost Tradeoff of Stochastic Optimization

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Finding Bipartite Components in Hypergraphs

Peter Macgregor · He Sun

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Understanding the Limits of Unsupervised Domain Adaptation via Data Poisoning

Akshay Mehra · Bhavya Kailkhura · Pin-Yu Chen · Jihun Hamm

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Drawing Robust Scratch Tickets: Subnetworks with Inborn Robustness Are Found within Randomly Initialized Networks

Yonggan Fu · Qixuan Yu · Yang Zhang · Shang Wu · Xu Ouyang · David Cox · Yingyan Lin

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Revisiting the Calibration of Modern Neural NetworksMatthias Minderer · Josip Djolonga · Rob Romijnders · Frances Hubis · Xiaohua Zhai · Neil Houlsby · Dustin Tran
· Mario Lucic[ OpenReview]

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Adversarially Robust 3D Point Cloud Recognition Using Self-SupervisionJiachen Sun · Yulong Cao · Christopher B Choy · Zhiding Yu · Anima Anandkumar · Zhuoqing Morley Mao ·
Chaowei Xiao

In Poster Session 1

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Physics-Integrated Variational Autoencoders for Robust and Interpretable Generative Modeling

Naoya Takeishi · Alexandros Kalousis

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Learning Debiased Representation via Disentangled Feature Augmentation

Jungsoo Lee · Eungyeup Kim · Juyoung Lee · Jihyeon Lee · Jaegul Choo

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Efficient methods for Gaussian Markov random fields under sparse linear constraints

David Bolin · Jonas Wallin

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Partial success in closing the gap between human and machine visionRobert Geirhos · Kantharaju Narayanappa · Benjamin Mitzkus · Tizian Thieringer · Matthias Bethge · Felix A.
Wichmann · Wieland Brendel

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Separation Results between Fixed-Kernel and Feature-Learning Probability Metrics

Carles Domingo i Enrich · Youssef Mroueh

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Distributed Zero-Order Optimization under Adversarial Noise

Arya Akhavan · Massimiliano Pontil · Alexandre Tsybakov

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Rebounding Bandits for Modeling Satiation Effects

Liu Leqi · Fatma Kilinc Karzan · Zachary Lipton · Alan Montgomery

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Active Offline Policy Selection

Ksenia Konyushova · Yutian Chen · Thomas Paine · Caglar Gulcehre · Cosmin Paduraru · Daniel Mankowitz · In Poster Session 1

Misha Denil · Nando de Freitas

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Arbitrary Conditional Distributions with Energy

Ryan Strauss · Junier Oliva

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Scalable Inference in SDEs by Direct Matching of the Fokker–Planck–Kolmogorov**Equation**

Arno Solin · Ella Tamir · Prakhar Verma

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Parallelizing Thompson Sampling

Amin Karbasi · Vahab Mirrokni · Mohammad Shadravan

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Is Bang-Bang Control All You Need? Solving Continuous Control with Bernoulli Policies

Tim Seyde · Igor Gilitschenski · Wilko Schwarting · Bartolomeo Stellato · Martin Riedmiller · Markus Wulfmeier · In Poster Session 1

Daniela Rus

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Object DGCNN: 3D Object Detection using Dynamic Graphs

Yue Wang · Justin Solomon

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Aligning Pretraining for Detection via Object-Level Contrastive Learning

Fangyun Wei · Yue Gao · Zhirong Wu · Han Hu · Stephen Lin

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PerSim: Data-Efficient Offline Reinforcement Learning with Heterogeneous Agents via Personalized Simulators

Anish Agarwal · Abdullah Alomar · Varkey Alumootil · Devavrat Shah · Dennis Shen · Zhi Xu · Cindy Yang

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Bandit Quickest Changepoint Detection

Aditya Gopalan · Braghadeesh Lakshminarayanan · Venkatesh Saligrama

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Recurrent Submodular Welfare and Matroid Blocking Semi-Bandits

Orestis Papadigenopoulos · Constantine Caramanis

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Contrast and Mix: Temporal Contrastive Video Domain Adaptation with Background Mixing

Aadarsh Sahoo · Rutav Shah · Rameswar Panda · Kate Saenko · Abir Das

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Introspective Distillation for Robust Question Answering

Yulei Niu · Hanwang Zhang

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When does Contrastive Learning Preserve Adversarial Robustness from Pretraining to Finetuning?

Lijie Fan · Sijia Liu · Pin-Yu Chen · Gaoyuan Zhang · Chuang Gan

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EvoGrad: Efficient Gradient-Based Meta-Learning and Hyperparameter Optimization

Ondrej Bohdal · Yongxin Yang · Timothy Hospedales

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[Slides] [ OpenReview]

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Dynamics-regulated kinematic policy for egocentric pose estimation

Zhengyi Luo · Ryo Hachiuma · Ye Yuan · Kris Kitani

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[Slides] [ OpenReview]

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MAUVE: Measuring the Gap Between Neural Text and Human Text using Divergence Frontiers

Krishna Pillutla · Swabha Swayamdipta · Rowan Zellers · John Thickstun · Sean Welleck · Yejin Choi · Zaid Harchaoui

In Poster Session 1

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BARTScore: Evaluating Generated Text as Text Generation

Weizhe Yuan · Graham Neubig · Pengfei Liu

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Attention Approximates Sparse Distributed Memory

Trenton Bricken · Cengiz Pehlevan

In Poster Session 1

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Certifying Robustness to Programmable Data Bias in Decision Trees

Anna Meyer · Aws Albarghouthi · Loris D'Antoni

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Projected GANs Converge Faster

Axel Sauer · Kashyap Chitta · Jens Müller · Andreas Geiger

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Hybrid Regret Bounds for Combinatorial Semi-Bandits and Adversarial Linear Bandits

Shinji Ito

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Mind the Gap: Assessing Temporal Generalization in Neural Language Models

Angeliki Lazaridou · Adhi Kuncoro · Elena Gribovskaya · Devang Agrawal · Adam Liska · Tayfun Terzi · Mai Gimenez · Cyprien de Masson d'Autume · Tomas Kociský · Sebastian Ruder · Dani Yogatama · Kris Cao · Susannah Young · Phil Blunsom

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On the Suboptimality of Thompson Sampling in High Dimensions

Raymond Zhang · Richard Combes

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Identification of Partially Observed Linear Causal Models: Graphical Conditions for the Non-Gaussian and Heterogeneous Cases

Jeffrey Adams · Niels Hansen · Kun Zhang

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Dueling Bandits with Adversarial Sleeping

Aadirupa Saha · Pierre Gaillard

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Learning Disentangled Behavior Embeddings

Changhao Shi · Sivan Schwartz · Shahar Levy · Shay Achvat · Maisan Abboud · Amir Ghanayim · Jackie Schiller In Poster Session 1
· Gal Mishne

[ OpenReview]

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Deep Neural Networks as Point Estimates for Deep Gaussian Processes

Vincent Dutordoir · James Hensman · Mark van der Wilk · Carl Henrik Ek · Zoubin Ghahramani · Nicolas Durrande In Poster Session 1

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Learning Treatment Effects in Panels with General Intervention Patterns

Vivek Farias · Andrew Li · Tianyi Peng In Poster Session 1

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Deep Learning Through the Lens of Example Difficulty

Robert Baldock · Hartmut Maennel · Behnam Neyshabur In Poster Session 1

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Tight High Probability Bounds for Linear Stochastic Approximation with Fixed Stepsize

Alain Durmus · Eric Moulines · Alexey Naumov · Sergey Samsonov · Kevin Scaman · Hoi-To Wai In Poster Session 1

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Sequential Causal Imitation Learning with Unobserved Confounders

Daniel Kumor · Junzhe Zhang · Elias Bareinboim In Poster Session 1

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Counterfactual Maximum Likelihood Estimation for Training Deep Networks

Xinyi Wang · Wenhui Chen · Michael Saxon · William Yang Wang In Poster Session 1

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Nonparametric estimation of continuous DPPs with kernel methods

Michaël Fanuel · Rémi Bardenet In Poster Session 1

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Counterfactual Explanations Can Be Manipulated

Dylan Slack · Anna Hilgard · Himabindu Lakkaraju · Sameer Singh In Poster Session 1

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Ranking Policy Decisions

Hadrien Pouget · Hana Chockler · Youcheng Sun · Daniel Kroening In Poster Session 1

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Neural Human Performer: Learning Generalizable Radiance Fields for Human Performance Rendering

Youngjoong Kwon · Dahun Kim · Duygu Ceylan · Henry Fuchs

In Poster Session 1

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Asymptotically Best Causal Effect Identification with Multi-Armed Bandits

Alan Malek · Silvia Chiappa

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Optimality of variational inference for stochasticblock model with missing links

Solenne Gaucher · Olga Klopp

In Poster Session 1

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Towards Instance-Optimal Offline Reinforcement Learning with Pessimism

Ming Yin · Yu-Xiang Wang

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Shape Registration in the Time of Transformers

Giovanni Trappolini · Luca Cosmo · Luca Moschella · Riccardo Marin · Simone Melzi · Emanuele Rodolà

In Poster Session 1

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A universal probabilistic spike count model reveals ongoing modulation of neural variability

David Liu · Mate Lengyel

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Nested Graph Neural Networks

Muhan Zhang · Pan Li

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Tensor Normal Training for Deep Learning Models

Yi Ren · Donald Goldfarb

In Poster Session 1

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Learning Models for Actionable Recourse

Alexis Ross · Himabindu Lakkaraju · Osbert Bastani

In Poster Session 1

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A variational approximate posterior for the deep Wishart process

Sebastian Ober · Laurence Aitchison

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Differentiable rendering with perturbed optimizers

Quentin Le Lidec · Ivan Laptev · Cordelia Schmid · Justin Carpentier

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On the Role of Optimization in Double Descent: A Least Squares Study

Ilja Kuzborskij · Csaba Szepesvari · Omar Rivasplata · Amal Rannen-Triki · Razvan Pascanu

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Provably Strict Generalisation Benefit for Invariance in Kernel Methods

Bryn Elesedy

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Bayesian decision-making under misspecified priors with applications to meta-learning

Max Simchowitz · Christopher Tosh · Akshay Krishnamurthy · Daniel Hsu · Thodoris Lykouris · Miro Dudik · Robert Schapire

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Compressed Video Contrastive Learning

Yuqi Huo · Mingyu Ding · Haoyu Lu · Nanyi Fei · Zhiwu Lu · Ji-Rong Wen · Ping Luo

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Fast Minimum-norm Adversarial Attacks through Adaptive Norm Constraints

Maura Pintor · Fabio Roli · Wieland Brendel · Battista Biggio

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Domain Adaptation with Invariant Representation Learning: What Transformations to Learn?

Petar Stojanov · Zijian Li · Mingming Gong · Ruichu Cai · Jaime Carbonell · Kun Zhang

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BayesIMP: Uncertainty Quantification for Causal Data Fusion

Siu Lun Chau · Jean-Francois Ton · Javier González · Yee Teh · Dino Sejdinovic

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Graph Neural Networks with Local Graph Parameters

Pablo Barceló · Floris Geerts · Juan Reutter · Maksimilian Ryschkov

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Self-Interpretable Model with Transformation Equivariant Interpretation

Yipei Wang · Xiaoqian Wang

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Dense Unsupervised Learning for Video Segmentation

Nikita Araslanov · Simone Schaub-Meyer · Stefan Roth

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The Pareto Frontier of model selection for general Contextual Bandits

Teodor Vanislavov Marinov · Julian Zimmert

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UniDoc: Unified Pretraining Framework for Document Understanding

Jiuxiang Gu · Jason Kuen · Vlad I Morariu · Handong Zhao · Rajiv Jain · Nikolaos Barmpalias · Ani Nenkova · Tong Sun

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Learning and Generalization in RNNs

Abhishek Panigrahi · Navin Goyal

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Testing Probabilistic Circuits

Yash Pralhad Pote · Kuldeep S Meel

In Poster Session 2

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NN-Baker: A Neural-network Infused Algorithmic Framework for Optimization Problems on Geometric Intersection Graphs

Evan McCarty · Qi Zhao · Anastasios Sidiropoulos · Yusu Wang

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Autoformer: Decomposition Transformers with Auto-Correlation for Long-Term Series Forecasting

haixu wu · Jiehui Xu · Jianmin Wang · Mingsheng Long

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Accommodating Picky Customers: Regret Bound and Exploration Complexity for Multi-Objective Reinforcement Learning

Jingfeng Wu · Vladimir Braverman · Lin Yang

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Evaluating State-of-the-Art Classification Models Against Bayes Optimality

Ryan Theisen · Huan Wang · Lav Varshney · Caiming Xiong · Richard Socher

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Heavy Ball Neural Ordinary Differential Equations	
Hedi Xia · Vai Suliafu · Hangjie Ji · Tan Nguyen · Andrea Bertozzi · Stanley Osher · Bao Wang	In Poster Session 2
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Bandit Learning with Delayed Impact of Actions	
Wei Tang · Chien-Ju Ho · Yang Liu	In Poster Session 2
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Understanding the Under-Coverage Bias in Uncertainty Estimation	
Yu Bai · Song Mei · Huan Wang · Caiming Xiong	In Poster Session 2
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Dynamic Normalization and Relay for Video Action Recognition	
Dongqi Cai · Anbang Yao · Yurong Chen	In Poster Session 2
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PLUR: A Unifying, Graph-Based View of Program Learning, Understanding, and Repair	
Zimin Chen · Vincent J Hellendoorn · Pascal Lamblin · Petros Maniatis · Pierre-Antoine Manzagol · Daniel Tarlow	In Poster Session 2
· Subhodeep Moitra	
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Does Knowledge Distillation Really Work?	
Samuel Stanton · Pavel Izmailov · Polina Kirichenko · Alexander Alemi · Andrew Wilson	In Poster Session 2
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Baby Intuitions Benchmark (BIB): Discerning the goals, preferences, and actions of others	
Kanishk Gandhi · Gala Stojnic · Brenden Lake · Moira R Dillon	In Poster Session 2
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Analysis of Sensing Spectral for Signal Recovery under a Generalized Linear Model	
Junjie Ma · Ji Xu · Arian Maleki	In Poster Session 2
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TransGAN: Two Pure Transformers Can Make One Strong GAN, and That Can Scale Up	
Yifan Jiang · Shiyu Chang · Zhangyang Wang	In Poster Session 2
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Discovery of Options via Meta-Learned Subgoals	
Vivek Veeriah · Tom Zahavy · Matteo Hessel · Zhongwen Xu · Junhyuk Oh · Iuri Kemaev · Hado van Hasselt · David Silver · Satinder Singh	In Poster Session 2

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Reconstruction for Powerful Graph Representations

Leonardo Cotta · Christopher Morris · Bruno Ribeiro

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Bellman Eluder Dimension: New Rich Classes of RL Problems, and Sample-Efficient Algorithms

Chi Jin · Qinghua Liu · Sobhan Miryoosefi

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PiRank: Scalable Learning To Rank via Differentiable Sorting

Robin Swetsey · Aditya Grover · Bruno Charron · Stefano Ermon

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Provably efficient multi-task reinforcement learning with model transfer

Chicheng Zhang · Zhi Wang

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Scheduling jobs with stochastic holding costs

Dabeen Lee · Milan Vojnovic

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A Prototype-Oriented Framework for Unsupervised Domain Adaptation

Korawat Tanwisuth · Xinjie Fan · Huangjie Zheng · Shujian Zhang · Hao Zhang · Bo Chen · Mingyuan Zhou

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Learning to Elect

Cem Anil · Xuchan Bao

In Poster Session 2

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Deep Jump Learning for Off-Policy Evaluation in Continuous Treatment Settings

Hengrui Cai · Chengchun Shi · Rui Song · Wenbin Lu

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The Elastic Lottery Ticket Hypothesis

Xiaohan Chen · Yu Cheng · Shuohang Wang · Zhe Gan · Jingjing Liu · Zhangyang Wang

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Model-Based Domain Generalization

Alexander Robey · George J. Pappas · Hamed Hassani

In Poster Session 2

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Hamiltonian Dynamics with Non-Newtonian Momentum for Rapid Sampling

Greg Ver Steeg · Aram Galstyan

In Poster Session 2

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Inverse-Weighted Survival Games

Xintian Han · Mark Goldstein · Aahlad Puli · Thomas Wies · Adler Perotte · Rajesh Ranganath

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An Improved Analysis of Gradient Tracking for Decentralized Machine Learning

Anastasiia Koloskova · Tao Lin · Sebastian Stich

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Temporal-attentive Covariance Pooling Networks for Video Recognition

Ziliin Gao · Qilong Wang · Bingbing Zhang · Qinghua Hu · Peihua Li

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When Expressivity Meets Trainability: Fewer than n Neurons Can Work

Jiawei Zhang · Yushun Zhang · Mingyi Hong · Ruoyu Sun · Zhi-Quan Luo

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Leveraging SE(3) Equivariance for Self-supervised Category-Level Object Pose Estimation from Point Clouds

Xiaolong Li · Yijia Weng · Li Yi · Leonidas Guibas · A. Abbott · Shuran Song · He Wang

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Dual Adaptivity: A Universal Algorithm for Minimizing the Adaptive Regret of Convex Functions

Lijun Zhang · Guanghui Wang · Wei-Wei Tu · Wei Jiang · Zhi-Hua Zhou

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CSDI: Conditional Score-based Diffusion Models for Probabilistic Time Series Imputation

Yusuke Tashiro · Jiaming Song · Yang Song · Stefano Ermon

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You Are the Best Reviewer of Your Own Papers: An Owner-Assisted Scoring Mechanism

Weijie Su

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Better Safe Than Sorry: Preventing Delusive Adversaries with Adversarial Training

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Absolute Neighbour Difference based Correlation Test for Detecting Heteroscedastic Relationships

Lifeng Zhang

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Joint Modeling of Visual Objects and Relations for Scene Graph Generation

Minghao Xu · Meng Qu · Bingbing Ni · Jian Tang

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Imitating Deep Learning Dynamics via Locally Elastic Stochastic Differential Equations

Jiayao Zhang · Hua Wang · Weijie Su

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Robust Regression Revisited: Acceleration and Improved Estimation Rates

Arun Jambulapati · Jerry Li · Tselil Schramm · Kevin Tian

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Curriculum Learning for Vision-and-Language Navigation

Jiwen Zhang · zhongyu wei · Jianqing Fan · Jiajie Peng

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Efficient Truncated Linear Regression with Unknown Noise Variance

Constantinos Daskalakis · Patroklos Stefanou · Rui Yao · Emmanouil Zampetakis

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Learning with Noisy Correspondence for Cross-modal Matching

Zhenyu Huang · Guocheng Niu · Xiao Liu · Wenbiao Ding · Xinyan Xiao · Hua Wu · Xi Peng

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FMMformer: Efficient and Flexible Transformer via Decomposed Near-field and Far-field Attention

Tan Nguyen · Vai Suliafu · Stanley Osher · Long Chen · Bao Wang

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Be Confident! Towards Trustworthy Graph Neural Networks via Confidence Calibration

Xiao Wang · Hongrui Liu · Chuan Shi · Cheng Yang

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Pay Attention to MLPs

Hanxiao Liu · Zihang Dai · David So · Quoc V Le

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Sample Complexity of Tree Search Configuration: Cutting Planes and Beyond

Maria-Florina Balcan · Siddharth Prasad · Tuomas Sandholm · Ellen Vitercik

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Near-optimal Offline and Streaming Algorithms for Learning Non-Linear Dynamical Systems

Suhas Kowshik · Dheeraj Nagaraj · Prateek Jain · Praneeth Netrapalli

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Confidence-Aware Imitation Learning from Demonstrations with Varying Optimality

Songyuan Zhang · ZHANGJIE CAO · Dorsa Sadigh · Yanan Sui

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Automatic and Harmless Regularization with Constrained and Lexicographic Optimization: A Dynamic Barrier Approach

Chengyue Gong · Xingchao Liu · Qiang Liu

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Taxonomizing local versus global structure in neural network loss landscapes

Yaoqing Yang · Liam Hodgkinson · Ryan Theisen · Joe Zou · Joseph Gonzalez · Kannan Ramchandran · Michael Mahoney

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Escaping Saddle Points with Compressed SGD

Dmitrii Avdiukhin · Grigory Yaroslavtsev

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Reinforcement Learning with Latent Flow

Wenling Shang · Xiaofei Wang · Aravind Srinivas · Aravind Rajeswaran · Yang Gao · Pieter Abbeel · Misha Laskin

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Variational Model Inversion Attacks

Kuan-Chieh Wang · YAN FU · Ke Li · Ashish Khisti · Richard Zemel · Alireza Makhzani

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Learned Robust PCA: A Scalable Deep Unfolding Approach for High-Dimensional Outlier Detection

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Exploiting Local Convergence of Quasi-Newton Methods Globally: Adaptive Sample Size Approach

Qiujiang Jin · Aryan Mokhtari

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Training Certifiably Robust Neural Networks with Efficient Local Lipschitz Bounds

Yujia Huang · Huan Zhang · Yuanyuan Shi · J. Zico Kolter · Anima Anandkumar

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Information is Power: Intrinsic Control via Information Capture

Nicholas Rhinehart · Jenny Wang · Glen Berseth · John Co-Reyes · Danijar Hafner · Chelsea Finn · Sergey Levine

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Self-Supervised Learning with Kernel Dependence Maximization

Yazhe Li · Roman Pogodin · [deadname] Sutherland · Arthur Gretton

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Tuning Large Neural Networks via Zero-Shot Hyperparameter Transfer

Ge Yang · Edward Hu · Igor Babuschkin · Szymon Sidor · Xiaodong Liu · David Farhi · Nick Ryder · Jakub Pachocki · Weizhu Chen · Jianfeng Gao

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Differentiable Simulation of Soft Multi-body Systems

Yiling Qiao · Junbang Liang · Vladlen Koltun · Ming Lin

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Simple steps are all you need: Frank-Wolfe and generalized self-concordant functions

Alejandro Carderera · Mathieu Besançon · Sebastian Pokutta

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Revisiting 3D Object Detection From an Egocentric Perspective

Boyang Deng · Charles R Qi · Mahyar Najibi · Thomas Funkhouser · Yin Zhou · Dragomir Anguelov

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MagNet: A Neural Network for Directed Graphs

Xitong Zhang · Yixuan He · Nathan Brugnone · Michael Perlmutter · Matthew Hirn

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Provably Efficient Reinforcement Learning with Linear Function Approximation under Adaptivity Constraints

Tianhao Wang · Dongruo Zhou · Quanquan Gu

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Densely connected normalizing flows

Matej Grcić · Ivan Grubišić · Siniša Šegvić

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Improved Transformer for High-Resolution GANs

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Motif-based Graph Self-Supervised Learning for Molecular Property Prediction

ZAXI ZHANG · Qi Liu · Hao Wang · Chengqiang Lu · Chee-Kong Lee

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Representation Learning on Spatial Networks

Zheng Zhang · Liang Zhao

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Diffusion Normalizing Flow

Qinsheng Zhang · Yongxin Chen

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EIGNN: Efficient Infinite-Depth Graph Neural Networks

Juncheng Liu · Kenji Kawaguchi · Bryan Hooi · Yiwei Wang · Xiaokui Xiao

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Reverse engineering learned optimizers reveals known and novel mechanisms

Niru Maheswaranathan · David Sussillo · Luke Metz · Ruoxi Sun · Jascha Sohl-Dickstein

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Shift-Robust GNNs: Overcoming the Limitations of Localized Graph Training data

Qi Zhu · Natalia Ponomareva · Jiawei Han · Bryan Perozzi

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Unadversarial Examples: Designing Objects for Robust Vision

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Convergence Rates of Stochastic Gradient Descent under Infinite Noise Variance

Hongjian Wang · Mert Gurbuzbalaban · Lingjiong Zhu · Umut Simsekli · Murat Erdogdu

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Novel Upper Bounds for the Constrained Most Probable Explanation Task

Tahrima Rahman · Sara Rouhani · Vibhav Gogate

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An Efficient Transfer Learning Framework for Multiagent Reinforcement Learning

Tianpei Yang · Weixun Wang · Hongyao Tang · Jianye Hao · Zhaopeng Meng · Hangyu Mao · Dong Li · Wulong Liu · Yingfeng Chen · Yujing Hu · Changjie Fan · Chengwei Zhang

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Learning Large Neighborhood Search Policy for Integer Programming

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Profiling Pareto Front With Multi-Objective Stein Variational Gradient Descent

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Lossy Compression for Lossless Prediction

Yann Dubois · Benjamin Bloem-Reddy · Karen Ullrich · Chris Maddison

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Rethinking conditional GAN training: An approach using geometrically structured latent manifolds

Sameera Ramasinghe · Moshiur Farazi · Salman H Khan · Nick Barnes · Stephen Gould

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Fine-grained Generalization Analysis of Inductive Matrix Completion

Antoine Ledent · Rodrigo Alves · Yunwen Lei · Marius Kloft

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Towards Robust Bisimulation Metric Learning

Mete Kemertas · Tristan Aumentado-Armstrong

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Amortized Variational Inference for Simple Hierarchical Models

Abhinav Agrawal · Justin Domke

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List-Decodable Mean Estimation in Nearly-PCA Time

Ilias Diakonikolas · Daniel Kane · Daniel Kongsgaard · Jerry Li · Kevin Tian

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Self-Diagnosing GAN: Diagnosing Underrepresented Samples in Generative Adversarial Networks

Jinhee Lee · Haeri Kim · Youngkyu Hong · Hye Won Chung

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Symbolic Regression via Deep Reinforcement Learning Enhanced Genetic Programming Seeding

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A Highly-Efficient Group Elastic Net Algorithm with an Application to Function-On-Scalar Regression

Tobia Boschi · Matthew Reimherr · Francesca Chiaromonte

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Multi-Person 3D Motion Prediction with Multi-Range Transformers

Jiashun Wang · Huazhe Xu · Medhini Narasimhan · Xiaolong Wang

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Subgroup Generalization and Fairness of Graph Neural Networks

Jiaqi Ma · Junwei Deng · Qiaozhu Mei

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TopicNet: Semantic Graph-Guided Topic Discovery

Zhibin Duan · Yi.shi Xu · Bo Chen · dongsheng wang · Chaojie Wang · Mingyuan Zhou

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AC-GC: Lossy Activation Compression with Guaranteed Convergence

R David Evans · Tor Aamodt

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Learning Tree Interpretation from Object Representation for Deep Reinforcement Learning

Guiliang Liu · Xiangyu Sun · Oliver Schulte · Pascal Poupart

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AugMax: Adversarial Composition of Random Augmentations for Robust Training

Haotao Wang · Chaowei Xiao · Jean Kossaifi · Zhiding Yu · Anima Anandkumar · Zhangyang Wang

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Equivariant Manifold Flows

Isay Katsman · Aaron Lou · Derek Lim · Qingxuan Jiang · Ser Nam Lim · Christopher De Sa

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A Faster Decentralized Algorithm for Nonconvex Minimax Problems

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Exploring Forensic Dental Identification with Deep Learning

Yuan Liang · Weikun Han · Liang Qiu · Chen Wu · Yiting Shao · Kun Wang · Lei He

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Learning where to learn: Gradient sparsity in meta and continual learning

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Relaxing Local Robustness

Klas Leino · Matt Fredrikson

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Unifying lower bounds on prediction dimension of convex surrogates

Jessica Finocchiaro · Rafael Frongillo · Bo Waggoner

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Iteratively Reweighted Least Squares for Basis Pursuit with Global Linear Convergence

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L2ight: Enabling On-Chip Learning for Optical Neural Networks via Efficient in-situ

Subspace Optimization

Jiaqi Gu · Hanqing Zhu · Chenghao Feng · Zixuan Jiang · Ray Chen · David Pan

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Rethinking Neural Operations for Diverse Tasks

Nicholas Roberts · Mikhail Khodak · Tri Dao · Liam Li · Christopher Ré · Ameet Talwalkar

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DeepGEM: Generalized Expectation-Maximization for Blind Inversion	
Angela Gao · Jorge Castellanos · Yisong Yue · Zachary Ross · Katherine Bouman	In Poster Session 2
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Learning State Representations from Random Deep Action-conditional Predictions	
Zeyu Zheng · Vivek Veeriah · Risto Vuorio · Richard L Lewis · Satinder Singh	In Poster Session 2
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Validating the Lottery Ticket Hypothesis with Inertial Manifold Theory	
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Meta-learning with an Adaptive Task Scheduler	
Huaxiu Yao · Yu Wang · Ying Wei · Peilin Zhao · Mehrdad Mahdavi · Defu Lian · Chelsea Finn	In Poster Session 2
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Weighted model estimation for offline model-based reinforcement learning	
Toru Hishinuma · Kei Senda	In Poster Session 2
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CLIP-It! Language-Guided Video Summarization	
Medhini Narasimhan · Anna Rohrbach · Trevor Darrell	In Poster Session 2
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Residual Pathway Priors for Soft Equivariance Constraints	
Marc Finzi · Gregory Benton · Andrew Wilson	In Poster Session 2
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Gradual Domain Adaptation without Indexed Intermediate Domains	
Hong-You Chen · Wei-Lun Chao	In Poster Session 2
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Goal-Aware Cross-Entropy for Multi-Target Reinforcement Learning	
Kibeam Kim · Min Whoo Lee · Yoonsung Kim · JeHwan Ryu · Minsu Lee · Byoung-Tak Zhang	In Poster Session 2
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ByPE-VAE: Bayesian Pseudocoresets Exemplar VAE

Qingzhong Ai · LIRONG HE · SHIYU LIU · Zenglin Xu

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Out-of-Distribution Generalization in Kernel Regression

Abdulkadir Canatar · Blake Bordelon · Cengiz Pehlevan

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Towards Biologically Plausible Convolutional Networks

Roman Pogodin · Yash Mehta · Timothy Lillicrap · Peter E Latham

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Particle Cloud Generation with Message Passing Generative Adversarial Networks

Raghav Kansal · Javier Duarte · Hao Su · Breno Orzari · Thiago Tomei · Maurizio Pierini · Mary Touranakou · jean-roch vlimant · Dimitrios Gunopulos

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Baleen: Robust Multi-Hop Reasoning at Scale via Condensed Retrieval

Omar Khattab · Christopher Potts · Matei Zaharia

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Faster Matchings via Learned Duals

Michael Dinitz · Sungjin Im · Thomas Lavastida · Benjamin Moseley · Sergei Vassilvitskii

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Iterative Teaching by Label Synthesis

Weiyang Liu · Zhen Liu · Hanchen Wang · Liam Paull · Bernhard Schölkopf · Adrian Weller

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The Role of Global Labels in Few-Shot Classification and How to Infer Them

Ruohan Wang · Massimiliano Pontil · Carlo Ciliberto

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Automorphic Equivalence-aware Graph Neural Network

Fengli Xu · Quanming Yao · Pan Hui · Yong Li

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Direct Multi-view Multi-person 3D Pose Estimation

tao wang · Jianfeng Zhang · Yujun Cai · Shuicheng Yan · Jiashi Feng

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Modified Frank Wolfe in Probability Space

Carson Kent · Jiajin Li · Jose Blanchet · Peter W Glynn

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Unsupervised Foreground Extraction via Deep Region Competition

Peiyu Yu · Sirui Xie · Xiaojian Ma · Yixin Zhu · Ying Nian Wu · Song-Chun Zhu

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Differentiable Spike: Rethinking Gradient-Descent for Training Spiking Neural Networks

Yuhang Li · Yufei Guo · Shanghang Zhang · Shikuang Deng · Yongqing Hai · Shi Gu

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Differentiable Optimization of Generalized Nondecomposable Functions using Linear Programs

Zihang Meng · Lopamudra Mukherjee · Yichao Wu · Vikas Singh · Sathya Ravi

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A mechanistic multi-area recurrent network model of decision-making

Michael Kleinman · Chandramouli Chandrasekaran · Jonathan Kao

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Adaptive Denoising via GainTuning

Sreyas Mohan · Joshua L Vincent · Ramon Manzorro · Peter Crozier · Carlos Fernandez-Granda · Eero Simoncelli

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No-Press Diplomacy from Scratch

Anton Bakhtin · David Wu · Adam Lerer · Noam Brown

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Neural Analysis and Synthesis: Reconstructing Speech from Self-Supervised Representations

Hyeong-Seok Choi · Juheon Lee · Wansoo Kim · Jie Lee · Hoon Heo · Kyogu Lee

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Remember What You Want to Forget: Algorithms for Machine Unlearning

Ayush Sekhari · Jayadev Acharya · Gautam Kamath · Ananda Theertha Suresh

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Choose a Transformer: Fourier or Galerkin

Shuhao Cao

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Self-Supervised Multi-Object Tracking with Cross-input Consistency Favyen Bastani · Songtao He · Samuel Madden	In Poster Session 2 [Slides] [OpenReview]
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MADE: Exploration via Maximizing Deviation from Explored Regions Tianjun Zhang · Paria Rashidinejad · Jiantao Jiao · Yuandong Tian · Joseph Gonzalez · Stuart Russell	In Poster Session 2 [OpenReview]
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Differentiable Spline Approximations Minsu Cho · Aditya Balu · Ameya Joshi · Anjana Deva Prasad · Biswajit Khara · Soumik Sarkar · Baskar Ganapathysubramanian · Adarsh Krishnamurthy · Chinmay Hegde	In Poster Session 2 [OpenReview]
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Dimensionality Reduction for Wasserstein Barycenter Zachary Izzo · Sandeep Silwal · Samson Zhou	In Poster Session 2 [OpenReview]
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Excess Capacity and Backdoor Poisoning Naren Manoj · Avrim Blum	In Poster Session 2 [Slides] [OpenReview]
Tue Dec 07 04:30 PM -- 06:00 PM (PST) @ Virtual	Poster
Representer Point Selection via Local Jacobian Expansion for Post-hoc Classifier Explanation of Deep Neural Networks and Ensemble Models Yi Sui · Ga Wu · Scott Sanner	In Poster Session 2 [Slides] [OpenReview]
Tue Dec 07 04:30 PM -- 06:00 PM (PST)	Poster
Amortized Synthesis of Constrained Configurations Using a Differentiable Surrogate Xingyuan Sun · Tianju Xue · Szymon Rusinkiewicz · Ryan Adams	In Poster Session 2 [OpenReview]
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Learning Frequency Domain Approximation for Binary Neural Networks Yixing Xu · Kai Han · Chang Xu · Yehui Tang · Chunjing XU · Yunhe Wang	In Poster Session 2 [OpenReview]
Tue Dec 07 04:30 PM -- 06:00 PM (PST)	Poster
Nearly Horizon-Free Offline Reinforcement Learning Tongzheng Ren · Jialian Li · Bo Dai · Simon Du · Sujay Sanghavi	In Poster Session 2 [OpenReview]
Tue Dec 07 04:30 PM -- 06:00 PM (PST) @ Virtual	Poster
Flow Network based Generative Models for Non-Iterative Diverse Candidate Generation Emmanuel Bengio · Moksh Jain · Maksym Korablyov · Doina Precup · Yoshua Bengio	In Poster Session 2

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Poster

Functional Neural Networks for Parametric Image Restoration Problems

Fangzhou Luo · Xiaolin Wu · Yanhui Guo

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Understanding the Generalization Benefit of Model Invariance from a Data Perspective

Sicheng Zhu · Bang An · Furong Huang

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Stateful Strategic Regression

Keegan Harris · Hoda Heidari · Steven Wu

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

On the Variance of the Fisher Information for Deep Learning

Alexander Soen · Ke Sun

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Policy Optimization in Adversarial MDPs: Improved Exploration via Dilated Bonuses

Haipeng Luo · Chen-Yu Wei · Chung-Wei Lee

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Generalized DataWeighting via Class-Level Gradient Manipulation

Can Chen · Shuhao Zheng · Xi Chen · Erqun Dong · Xue (Steve) Liu · Hao Liu · Dejing Dou

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

A Multi-Implicit Neural Representation for Fonts

Pradyumna Reddy · Zhifei Zhang · Zhaowen Wang · Matthew Fisher · Hailin Jin · Niloy Mitra

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Accumulative Poisoning Attacks on Real-time Data

Tianyu Pang · Xiao Yang · Yinpeng Dong · Hang Su · Jun Zhu

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Limiting fluctuation and trajectory stability of multilayer neural networks with mean field training

Huy Tuan Pham · Phan-Minh Nguyen

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Visualizing the Emergence of Intermediate Visual Patterns in DNNs

Mingjie Li · Shaobo Wang · Quanshi Zhang

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

CBP: backpropagation with constraint on weight precision using a pseudo-Lagrange multiplier method

Guhyun Kim · Doo Seok Jeong

In Poster Session 2

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Poster

Conservative Data Sharing for Multi-Task Offline Reinforcement Learning

Tianhe Yu · Aviral Kumar · Yevgen Chebotar · Karol Hausman · Sergey Levine · Chelsea Finn

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

On Interaction Between Augmentations and Corruptions in Natural Corruption**Robustness**

Eric Mintun · Alexander Kirillov · Saining Xie

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Few-Shot Data-Driven Algorithms for Low Rank Approximation

Piotr Indyk · Tal Wagner · David Woodruff

In Poster Session 2

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Poster

The Emergence of Objectness: Learning Zero-shot Segmentation from Videos

Runtao Liu · Zhirong Wu · Stella Yu · Stephen Lin

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

QuPeD: Quantized Personalization via Distillation with Applications to Federated Learning

Kaan Ozkara · Navjot Singh · Deepesh Data · Suhas Diggavi

In Poster Session 2

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Poster

argmax centroid

Chengyue Gong · Mao Ye · Qiang Liu

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

ELLA: Exploration through Learned Language Abstraction

Suvir Mirchandani · Siddharth Karamcheti · Dorsa Sadigh

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Understanding How Encoder-Decoder Architectures Attend

Kyle Aitken · Vinay Ramasesh · Yuan Cao · Niru Maheswaranathan

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST) @ Virtual

Poster

Exponential Graph is Provably Efficient for Decentralized Deep Training

Bicheng Ying · Kun Yuan · Yiming Chen · Hanbin Hu · PAN PAN · Wotao Yin

In Poster Session 2

[Slides] [ OpenReview]

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Poster

SSMF: Shifting Seasonal Matrix Factorization

Koki Kawabata · Siddharth Bhatia · Rui Liu · Mohit Wadhwa · Bryan Hooi

In Poster Session 2

[ OpenReview]

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

XDO: A Double Oracle Algorithm for Extensive-Form Games

Stephen McAleer · JB Lanier · Kevin A Wang · Pierre Baldi · Roy Fox

In Poster Session 2

[ OpenReview]

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Low-Rank Constraints for Fast Inference in Structured Models

Justin Chiu · Yuntian Deng · Alexander Rush

In Poster Session 2

[ OpenReview]

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Unsupervised Object-Level Representation Learning from Scene Images

Jiahao Xie · Xiaohang Zhan · Ziwei Liu · Yew Soon Ong · Chen Change Loy

In Poster Session 2

[ OpenReview]

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Improving Visual Quality of Image Synthesis by A Token-based Generator with Transformers

Yanhong Zeng · Huan Yang · Hongyang Chao · Jianbo Wang · Jianlong Fu

In Poster Session 2

[ OpenReview]

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Parameter Prediction for Unseen Deep Architectures

Boris Knyazev · Michal Drozdzal · Graham Taylor · Adriana Romero Soriano

In Poster Session 2

[ OpenReview]

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Poster

On Pathologies in KL-Regularized Reinforcement Learning from Expert Demonstrations

Tim G. J. Rudner · Cong Lu · Michael A Osborne · Yarin Gal · Yee Teh

In Poster Session 2

[Slides] [ OpenReview]

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Poster

Transfer Learning of Graph Neural Networks with Ego-graph Information Maximization

Qi Zhu · Carl Yang · Yidan Xu · Haonan Wang · Chao Zhang · Jiawei Han

In Poster Session 2

[Slides] [ OpenReview]

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Poster

Deep Residual Learning in Spiking Neural Networks

Wei Fang · Zhaofei Yu · Yanqi Chen · Tiejun Huang · Timothée Masquelier · Yonghong Tian

In Poster Session 2

[ OpenReview]

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

On the Value of Infinite Gradients in Variational Autoencoder Models

Bin Dai · Li Wenliang · David Wipf

In Poster Session 2

[ OpenReview]

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Regime Switching Bandits

Xiang Zhou · Yi Xiong · Ningyuan Chen · Xuefeng GAO

In Poster Session 2

[ OpenReview]

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Poster

Towards a Theoretical Framework of Out-of-Distribution Generalization

Haotian Ye · Chuanlong Xie · Tianle Cai · Ruichen Li · Zhenguo Li · Liwei Wang

In Poster Session 2

[ OpenReview]

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Poster

Understanding the Effect of Stochasticity in Policy Optimization

Jincheng Mei · Bo Dai · Chenjun Xiao · Csaba Szepesvari · Dale Schuurmans

In Poster Session 2

[Slides] [ OpenReview]

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Poster

Co-Adaptation of Algorithmic and Implementational Innovations in Inference-based Deep Reinforcement Learning

Hiroki Furuta · Tadashi Kozuno · Tatsuya Matsushima · Yutaka Matsuo · Shixiang (Shane) Gu

In Poster Session 2

[Slides] [ OpenReview]

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

SSUL: Semantic Segmentation with Unknown Label for Exemplar-based Class-Incremental Learning

Sungmin Cha · beomyoung kim · YoungJoon Yoo · Taesup Moon

In Poster Session 2

[ OpenReview]

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Rethinking Graph Transformers with Spectral Attention

Devin Kreuzer · Dominique Beaini · Will Hamilton · Vincent Létourneau · Prudencio Tossou

In Poster Session 2

[ OpenReview]

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

MOMA: Multi-Object Multi-Actor Activity Parsing

Zelun Luo · Wanze Xie · Siddharth Kapoor · Yiyun Liang · Michael Cooper · Juan Carlos Niebles · Ehsan Adeli · Fei-Fei Li

[ OpenReview]

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Poster

Prior-independent Dynamic Auctions for a Value-maximizing Buyer

Yuan Deng · Hanrui Zhang

In Poster Session 2

[ OpenReview]

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Neo-GNNs: Neighborhood Overlap-aware Graph Neural Networks for Link Prediction

Seongjun Yun · Seoyoon Kim · Junhyun Lee · Jaewoo Kang · Hyunwoo Kim

In Poster Session 2

[ OpenReview]

Tue Dec 07 04:30 PM -- 06:00 PM (PST)	An Improved Analysis and Rates for Variance Reduction under Without-replacement Sampling Orders	Poster
Xinmeng Huang · Kun Yuan · Xianghui Mao · Wotao Yin	In Poster Session 2	
[ OpenReview]		
Tue Dec 07 04:30 PM -- 06:00 PM (PST)	On the Cryptographic Hardness of Learning Single Periodic Neurons	Poster
Min Jae Song · Ilias Zadik · Joan Bruna	In Poster Session 2	
[ OpenReview]		
Tue Dec 07 04:30 PM -- 06:00 PM (PST)	Overparameterization Improves Robustness to Covariate Shift in High Dimensions	Poster
Nilesh Tripuraneni · Ben Adlam · Jeffrey Pennington	In Poster Session 2	
[ OpenReview]		
Tue Dec 07 04:30 PM -- 06:00 PM (PST)	A Theory-Driven Self-Labeling Refinement Method for Contrastive Representation Learning	Poster
Pan Zhou · Caiming Xiong · Xiaotong Yuan · Steven Chu Hong Hoi	In Poster Session 2	
[ OpenReview]		
Tue Dec 07 04:30 PM -- 06:00 PM (PST)	Machine versus Human Attention in Deep Reinforcement Learning Tasks	Poster
Suna (Sihang) Guo · Ruohan Zhang · Bo Liu · Yifeng Zhu · Dana Ballard · Mary Hayhoe · Peter Stone	In Poster Session 2	
[ OpenReview]		
Tue Dec 07 04:30 PM -- 06:00 PM (PST)	Dynamic Neural Representational Decoders for High-Resolution Semantic Segmentation	Poster
Bowen Zhang · Yifan Liu · Zhi Tian · Chunhua Shen	In Poster Session 2	
[ OpenReview]		
Tue Dec 07 04:30 PM -- 06:00 PM (PST)	On Learning Domain-Invariant Representations for Transfer Learning with Multiple Sources	Poster
Trung Phung · Trung Le · Tung-Long Vuong · Toan Tran · Anh Tran · Hung Bui · Dinh Phung	In Poster Session 2	
[ OpenReview]		
Tue Dec 07 04:30 PM -- 06:00 PM (PST)	Learning Compact Representations of Neural Networks using Discriminative Masking (DAM)	Poster
Jie Bu · Arka Daw · M. Maruf · Anuj Karpatne	In Poster Session 2	
[ OpenReview]		
Tue Dec 07 04:30 PM -- 06:00 PM (PST)	Open-set Label Noise Can Improve Robustness Against Inherent Label Noise	Poster
Hongxin Wei · Lue Tao · RENCHUNZI XIE · Bo An	In Poster Session 2	
Tue Dec 07 04:30 PM -- 06:00 PM (PST) @ Virtual	Do Transformers Really Perform Badly for Graph Representation?	Poster
Chengxuan Ying · Tianle Cai · Shengjie Luo · Shuxin Zheng · Guolin Ke · Di He · Yanming Shen · Tie-Yan Liu	In Poster Session 2	

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

NovelD: A Simple yet Effective Exploration Criterion

Tianjun Zhang · Huazhe Xu · Xiaolong Wang · Yi Wu · Kurt Keutzer · Joseph Gonzalez · Yuandong Tian

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Unsupervised Domain Adaptation with Dynamics-Aware Rewards in Reinforcement Learning

Jinxin Liu · Hao Shen · Donglin Wang · Yachen Kang · Qiangxing Tian

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

K-level Reasoning for Zero-Shot Coordination in Hanabi

Brandon Cui · Hengyuan Hu · Luis Pineda · Jakob Foerster

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST) @ Virtual

Poster

Pareto-Optimal Learning-Augmented Algorithms for Online Conversion Problems

Bo Sun · Russell Lee · Mohammad Hajiesmaili · Adam Wierman · Danny Tsang

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Robust Auction Design in the Auto-bidding World

Santiago Balseiro · Yuan Deng · Jieming Mao · Vahab Mirrokni · Song Zuo

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST) @ Virtual

Poster

Deceive D: Adaptive Pseudo Augmentation for GAN Training with Limited Data

Liming Jiang · Bo Dai · Wayne Wu · Chen Change Loy

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Learning Space Partitions for Path Planning

Kevin Yang · Tianjun Zhang · Chris Cummins · Brandon Cui · Benoit Steiner · Linnan Wang · Joseph Gonzalez · In Poster Session 2

Dan Klein · Yuandong Tian

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Augmented Shortcuts for Vision Transformers

Yehui Tang · Kai Han · Chang Xu · An Xiao · Yiping Deng · Chao Xu · Yunhe Wang

In Poster Session 2

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Poster

Delayed Propagation Transformer: A Universal Computation Engine towards Practical Control in Cyber-Physical Systems

Wenqing Zheng · Qiangqiang Guo · Hao Yang · Peihao Wang · Zhangyang Wang

In Poster Session 2

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Exploring Architectural Ingredients of Adversarially Robust Deep Neural Networks

Hanxun Huang · Yisen Wang · Sarah Erfani · Quanquan Gu · James Bailey · Xingjun Ma

In Poster Session 2

[ OpenReview]

Tue Dec 07 04:30 PM -- 06:00 PM (PST) @ Virtual

Poster

Predicting Event Memorability from Contextual Visual Semantics

Qianli Xu · Fen Fang · Ana Molino · Vigneshwaran Subbaraju · Joo-Hwee Lim

In Poster Session 2

[Slides] [ OpenReview]

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Quantifying and Improving Transferability in Domain Generalization

Guojun Zhang · Han Zhao · Yaoliang Yu · Pascal Poupart

In Poster Session 2

[ OpenReview]

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Generalized Proximal Policy Optimization with Sample Reuse

James Queeney · Yannis Paschalidis · Christos G Cassandras

In Poster Session 2

[ OpenReview]

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Poster

Teaching via Best-Case Counterexamples in the Learning-with-Equivalence-Queries Paradigm

Akash Kumar · Yuxin Chen · Adish Singla

In Poster Session 2

[ OpenReview]

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Gradient-Free Adversarial Training Against Image Corruption for Learning-based Steering

Yu Shen · Laura Zheng · Manli Shu · Weizi Li · Tom Goldstein · Ming Lin

In Poster Session 2

[ OpenReview]

Tue Dec 07 04:30 PM -- 06:00 PM (PST)

Poster

Machine learning structure preserving brackets for forecasting irreversible processes

Kookjin Lee · Nathaniel Trask · Panos Stinis

In Poster Session 2

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Adaptive First-Order Methods Revisited: Convex Minimization without Lipschitz Requirements

Kimon Antonakopoulos · Panayotis Mertikopoulos

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

TacticZero: Learning to Prove Theorems from Scratch with Deep Reinforcement Learning

Minchao Wu · Michael Norrish · Christian Walder · Amir Dezfouli

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Neural Production Systems

Anirudh Goyal ALIAS PARTH GOYAL · Aniket Didolkar · Nan Rosemary Ke · Charles Blundell · Philippe Beaudoin · Nicolas Heess · Michael Mozer · Yoshua Bengio

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST) Poster

Neural Routing by Memory

Kaipeng Zhang · Zhenqiang Li · Zhifeng Li · Wei Liu · Yoichi Sato

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST) @ Virtual Poster

Vector-valued Distance and Gyrocalculus on the Space of Symmetric Positive Definite Matrices

Federico López · Beatrice Pozzetti · Steve Trettel · Michael Strube · Anna Wienhard

In Poster Session 3

[ Slides] [ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST) Poster

Parametrized Quantum Policies for Reinforcement Learning

Sofiene Jerbi · Casper Gyurik · Simon Marshall · Hans Briegel · Vedran Dunjko

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST) Poster

Provably Efficient Black-Box Action Poisoning Attacks Against Reinforcement Learning

Guanlin Liu · Lifeng LAI

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST) Poster

Non-asymptotic convergence bounds for Wasserstein approximation using point clouds

Quentin Mérigot · Filippo Santambrogio · Clément SARRAZIN

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST) Poster

Multi-View Representation Learning via Total Correlation Objective

HyeongJoo Hwang · Geon-Hyeong Kim · Seunghoon Hong · Kee-Eung Kim

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST) @ Virtual Poster

Learnability of Linear Thresholds from Label Proportions

Rishi Saket

In Poster Session 3

[ Slides] [ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST) @ Virtual Poster

Neighborhood Reconstructing Autoencoders

Yonghyeon LEE · Hyekjun Kwon · Frank Park

In Poster Session 3

[ Slides] [ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST) Poster

Implicit MLE: Backpropagating Through Discrete Exponential Family Distributions

Mathias Niepert · Pasquale Minervini · Luca Franceschi

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST) @ Virtual Poster

VAST: Value Function Factorization with Variable Agent Sub-Teams

Thomy Phan · Fabian Ritz · Lenz Belzner · Philipp Altmann · Thomas Gabor · Claudia Linhoff-Popien

In Poster Session 3

[ Slides] [ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Object-Aware Regularization for Addressing Causal Confusion in Imitation Learning

Jongjin Park · Younggyo Seo · Chang Liu · Li Zhao · Tao Qin · Jinwoo Shin · Tie-Yan Liu

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Stable, Fast and Accurate: Kernelized Attention with Relative Positional Encoding

Shengjie Luo · Shanda Li · Tianle Cai · Di He · Dinglan Peng · Shuxin Zheng · Guolin Ke · Liwei Wang · Tie-Yan Liu

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Natural continual learning: success is a journey, not (just) a destination

Ta-Chu Kao · Kristopher Jensen · Gido van de Ven · Alberto Bernacchia · Guillaume Hennequin

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

FastCorrect: Fast Error Correction with Edit Alignment for Automatic Speech Recognition

Yichong Leng · Xu Tan · Linchen Zhu · Jin Xu · Renqian Luo · Linquan Liu · Tao Qin · Xiangyang Li · Edward Lin · Tie-Yan Liu

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Contextual Similarity Aggregation with Self-attention for Visual Re-ranking

Jianbo Ouyang · Hui Wu · Min Wang · Wengang Zhou · Houqiang Li

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Tuning Mixed Input Hyperparameters on the Fly for Efficient Population Based AutoRL

Jack Parker-Holder · Vu Nguyen · Shaan Desai · Stephen J Roberts

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Lower Bounds and Optimal Algorithms for Smooth and Strongly Convex Decentralized Optimization Over Time-Varying Networks

Dmitry Kovalev · Elnur Gasanov · Alexander Gasnikov · Peter Richtarik

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

On Riemannian Optimization over Positive Definite Matrices with the Bures-Wasserstein Geometry

Andi Han · Bamdev Mishra · Pratik Kumar Jawanpuria · Junbin Gao

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

DP-SSL: Towards Robust Semi-supervised Learning with A Few Labeled Samples

Yi Xu · Jiandong Ding · Lu Zhang · Shuigeng Zhou

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

A 3D Generative Model for Structure-Based Drug Design

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST) @ Virtual

Poster

Accurately Solving Rod Dynamics with Graph Learning

Han Shao · Tassilo Kugelstadt · Torsten Hädrich · Wojtek Palubicki · Jan Bender · Soeren Pirk · Dominik L Michels

In Poster Session 3

[Slides] [ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Optimizing Conditional Value-At-Risk of Black-Box Functions

Quoc Phong Nguyen · Zhongxiang Dai · Bryan Kian Hsiang Low · Patrick Jaillet

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Sparse Quadratic Optimisation over the Stiefel Manifold with Application to Permutation Synchronisation

Florian Bernard · Daniel Cremers · Johan Thunberg

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Mastering Atari Games with Limited Data

Weirui Ye · Shaohuai Liu · Thanard Kurutach · Pieter Abbeel · Yang Gao

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST) @ Virtual

Poster

Shape from Blur: Recovering Textured 3D Shape and Motion of Fast Moving Objects

Denys Rozumnyi · Martin R. Oswald · Vittorio Ferrari · Marc Pollefeys

In Poster Session 3

[Slides] [ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST) @ Virtual

Poster

Towards a Unified Game-Theoretic View of Adversarial Perturbations and Robustness

Jie Ren · Die Zhang · Yisen Wang · Lu Chen · Zhanpeng Zhou · Yiting Chen · Xu Cheng · Xin Wang · Meng Zhou
Poster Session 3 · Jie Shi · Quanshi Zhang

[Slides] [ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Learning Riemannian metric for disease progression modeling

Samuel Gruffaz · Pierre-Emmanuel Poulet · Etienne Maheux · Bruno Jedynak · Stanley DURRLEMAN

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST) @ Virtual

Poster

Robust Inverse Reinforcement Learning under Transition Dynamics Mismatch

Luca Viano · Yu-Ting Huang · Parameswaran Kamalaruban · Adrian Weller · Volkan Cevher

In Poster Session 3

[Slides] [ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Loss function based second-order Jensen inequality and its application to particle variational inference

Futoshi Futami · Tomoharu Iwata · naonori ueda · Issei Sato · Masashi Sugiyama

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST) @ Virtual

Poster

PTR: A Benchmark for Part-based Conceptual, Relational, and Physical Reasoning

Yining Hong · Li Yi · Josh Tenenbaum · Antonio Torralba · Chuang Gan

In Poster Session 3

[Slides] [ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

VoiceMixer: Adversarial Voice Style Mixup

Sang-Hoon Lee · Ji-Hoon Kim · Hyunseung Chung · Seong-Whan Lee

In Poster Session 3

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Variational Inference for Continuous-Time Switching Dynamical Systems

Lukas Köhs · Bastian Alt · Heinz Koeppl

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Gaussian Kernel Mixture Network for Single Image Defocus Deblurring

Yuhui Quan · Zicong Wu · Hui Ji

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

On Optimal Interpolation in Linear Regression

Eduard Oravkin · Patrick Rebeschini

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Improve Agents without Retraining: Parallel Tree Search with Off-Policy Correction

Gal Dalal · Assaf Hallak · Steven Dalton · iuri frosio · Shie Mannor · Gal Chechik

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

On Joint Learning for Solving Placement and Routing in Chip Design

Ruoyu Cheng · Junchi Yan

In Poster Session 3

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Poster

Generative Occupancy Fields for 3D Surface-Aware Image Synthesis

Xudong XU · Xingang Pan · Dahua Lin · Bo Dai

In Poster Session 3

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Latent Equilibrium: A unified learning theory for arbitrarily fast computation with arbitrarily slow neurons

Paul Haider · Benjamin Ellenberger · Laura Kriener · Jakob Jordan · Walter Senn · Mihai A. Petrovici

In Poster Session 3

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Learning High-Precision Bounding Box for Rotated Object Detection via Kullback-Leibler Divergence

Xue Yang · Xiaojiang Yang · Jirui Yang · Qi Ming · Wentao Wang · Qi Tian · Junchi Yan

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Differentiable Synthesis of Program Architectures

Guofeng Cui · He Zhu

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Learning Collaborative Policies to Solve NP-hard Routing Problems

Minsu Kim · Jinkyoo Park · jongho kim

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[Slides] [ OpenReview]

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When Is Unsupervised Disentanglement Possible?

Daniella Horan · Eitan Richardson · Yair Weiss

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Implicit Sparse Regularization: The Impact of Depth and Early Stopping

Jiangyuan Li · Thanh Nguyen · Chinmay Hegde · Ka Wai Wong

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Mixed Supervised Object Detection by Transferring Mask Prior and Semantic Similarity

Yan Liu · Zhijie Zhang · Li Niu · Junjie Chen · Liqing Zhang

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DeepReduce: A Sparse-tensor Communication Framework for Federated Deep Learning

Hang Xu · Kelly Kostopoulou · Aritra Dutta · Xin Li · Alexandros Ntoulas · Panos Kalnis

In Poster Session 3

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Fast Abductive Learning by Similarity-based Consistency Optimization

Yu-Xuan Huang · Wang-Zhou Dai · Le-Wen Cai · Stephen H Muggleton · Yuan Jiang

In Poster Session 3

[Slides] [ OpenReview]

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PolarStream: Streaming Object Detection and Segmentation with Polar Pillars

Qi Chen · Sourabh Vora · Oscar Beijbom

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On Optimal Robustness to Adversarial Corruption in Online Decision Problems

Shinji Ito

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Efficient and Accurate Gradients for Neural SDEs

Patrick Kidger · James Foster · Xuechen (Chen) Li · Terry Lyons

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Control Variates for Slate Off-Policy Evaluation

Nikos Vlassis · Ashok Chandrashekhar · Fernando Amat · Nathan Kallus

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Metropolis-Hastings Data Augmentation for Graph Neural Networks

Hyeonjin Park · Seunghun Lee · Sihyeon Kim · Jinyoung Park · Jisu Jeong · Kyung-Min Kim · Jung-Woo Ha
(NAVER AI Lab) · Hyunwoo Kim

In Poster Session 3

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Differentiable Equilibrium Computation with Decision Diagrams for Stackelberg Models of Combinatorial Congestion Games

Shinsaku Sakaue · Kengo Nakamura

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Distilling Image Classifiers in Object Detectors

Shuxuan Guo · Jose M. Alvarez · Mathieu Salzmann

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Global Filter Networks for Image Classification

Yongming Rao · Wenliang Zhao · Zheng Zhu · Jiwen Lu · Jie Zhou

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Finding Discriminative Filters for Specific Degradations in Blind Super-Resolution

Liangbin Xie · Xintao Wang · Chao Dong · Zhongang Qi · Ying Shan

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Low-Rank Extragradient Method for Nonsmooth and Low-Rank Matrix Optimization Problems

Atara Kaplan · Dan Garber

In Poster Session 3

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Learning from Inside: Self-driven Siamese Sampling and Reasoning for Video Question Answering

Weijiang Yu · Haoteng Zheng · Mengfei Li · Lei Ji · Lijun Wu · Nong Xiao · Nan Duan

In Poster Session 3

[Slides] [ OpenReview]

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Unfolding Taylor's Approximations for Image Restoration

man zhou · Xueyang Fu · Zeyu Xiao · Gang Yang · Aiping Liu · Zhiwei Xiong

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Determinantal point processes based on orthogonal polynomials for sampling minibatches in SGD

Rémi Bardenet · Subhroshekhar Ghosh · Meixia LIN

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Image Generation using Continuous Filter Atoms

Ze Wang · Seunghyun Hwang · Zichen Miao · Qiang Qiu

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Prototypical Cross-Attention Networks for Multiple Object Tracking and Segmentation

Lei Ke · Xia Li · Martin Danelljan · Yu-Wing Tai · Chi-Keung Tang · Fisher Yu

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Differentiable Learning Under Triage

Nastaran Okati · Abir De · Manuel Rodriguez

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Coarse-to-fine Animal Pose and Shape Estimation

Chen Li · Gim Hee Lee

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Bridging Non Co-occurrence with Unlabeled In-the-wild Data for Incremental Object Detection

NA DONG · Yongqiang Zhang · Mingli Ding · Gim Hee Lee

In Poster Session 3

[Slides] [ OpenReview]

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Post-Training Quantization for Vision Transformer

Zhenhua Liu · Yunhe Wang · Kai Han · Wei Zhang · Siwei Ma · Wen Gao

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A Mathematical Framework for Quantifying Transferability in Multi-source Transfer Learning

Xinyi Tong · Xiangxiang Xu · Shao-Lun Huang · Lizhong Zheng

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Conic Blackwell Algorithm: Parameter-Free Convex-Concave Saddle-Point Solving

Julien Grand-Clément · Christian Kroer

In Poster Session 3

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Neural Dubber: Dubbing for Videos According to Scripts

Chenxu Hu · Qiao Tian · Tingle Li · Wang Yuping · Yuxuan Wang · Hang Zhao

In Poster Session 3

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The Hardness Analysis of Thompson Sampling for Combinatorial Semi-bandits with Greedy Oracle

Fang Kong · Yueran Yang · Wei Chen · Shuai Li

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CoFiNet: Reliable Coarse-to-fine Correspondences for Robust PointCloud Registration

Hao Yu · Fu Li · Mahdi Saleh · Benjamin Busam · Slobodan Ilic

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Meta-Learning Sparse Implicit Neural Representations

Jaeho Lee · Jihoon Tack · Namhoon Lee · Jinwoo Shin

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A Non-commutative Extension of Lee-Seung's Algorithm for Positive Semidefinite Factorizations

Yong Sheng Soh · Antonios Varvitsiotis

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BAST: Bayesian Additive Regression Spanning Trees for Complex Constrained Domain

Zhao Tang Luo · Huiyan Sang · Bani Mallick

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Improving Deep Learning Interpretability by Saliency Guided Training

Aya Abdelsalam Ismail · Hector Corrada Bravo · Soheil Feizi

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MAP Propagation Algorithm: Faster Learning with a Team of Reinforcement Learning Agents

Stephen Chung

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Generalization Error Rates in Kernel Regression: The Crossover from the Noiseless to Noisy Regime

Hugo Cui · Bruno Loureiro · Florent Krzakala · Lenka Zdeborová

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Modality-Agnostic Topology Aware LocalizationFarhad Ghazvinian Zanjani · Ilia Karmanov · Hanno Ackermann · Daniel Dijkman · Simone Merlin · Max Welling · In Poster Session 3
Fatih Porikli

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Learning to Iteratively Solve Routing Problems with Dual-Aspect Collaborative Transformer

Yining Ma · Jingwen Li · Zhiguang Cao · Wen Song · Le Zhang · Zhenghua Chen · Jing Tang

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AutoGEL: An Automated Graph Neural Network with Explicit Link Information

Zhilin Wang · Shimin DI · Lei Chen

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Information-theoretic generalization bounds for black-box learning algorithms

Hrayr Harutyunyan · Maxim Raginsky · Greg Ver Steeg · Aram Galstyan

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Sparse Steerable Convolutions: An Efficient Learning of SE(3)-Equivariant Features for Estimation and Tracking of Object Poses in 3D Space

Jiehong Lin · Hongyang Li · Ke Chen · Jiangbo Lu · Kui Jia

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Topology-Imbalance Learning for Semi-Supervised Node Classification

Deli Chen · Yankai Lin · Guangxiang Zhao · Xuancheng Ren · Peng Li · Jie Zhou · Xu Sun

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Distilling Robust and Non-Robust Features in Adversarial Examples by Information Bottleneck

Junho Kim · Byung-Kwan Lee · Yong Man Ro

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Continual World: A Robotic Benchmark For Continual Reinforcement Learning

Maciej Wołczyk · Michał Zając · Razvan Pascanu · Łukasz Kuciński · Piotr Miłoś

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Learning Diverse Policies in MOBA Games via Macro-Goals

Yiming Gao · Bei Shi · Xueying Du · Liang Wang · Guangwei Chen · Zhenjie Lian · Fuhao Qiu · GUOAN HAN · Weixuan Wang · Deheng Ye · Qiang Fu · Wei Yang · Lanxiao Huang

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Faster Directional Convergence of Linear Neural Networks under Spherically Symmetric Data

Dachao Lin · Ruoyu Sun · Zhihua Zhang

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Noisy Adaptation Generates Lévy Flights in Attractor Neural Networks

Xingsi Dong · Tianhao Chu · Tiejun Huang · Zilong Ji · Si Wu

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Rank Overspecified Robust Matrix Recovery: Subgradient Method and Exact Recovery

Lijun Ding · Liwei Jiang · Yudong Chen · Qing Qu · Zhihui Zhu

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Sparsely Changing Latent States for Prediction and Planning in Partially Observable Domains

Christian Gumbsch · Martin V. Butz · Georg Martius

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Improving black-box optimization in VAE latent space using decoder uncertainty

Pascal Notin · José Miguel Hernández-Lobato · Yarin Gal

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AFEC: Active Forgetting of Negative Transfer in Continual Learning

Liyuan Wang · Mingtian Zhang · Zhongfan Jia · Qian Li · Chenglong Bao · Kaisheng Ma · Jun Zhu · Yi Zhong In Poster Session 3

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RelaySum for Decentralized Deep Learning on Heterogeneous Data

Thijs Vogels · Lie He · Anastasiia Koloskova · Sai Praneeth Karimireddy · Tao Lin · Sebastian Stich · Martin Jaggi In Poster Session 3

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Graph Adversarial Self-Supervised Learning

Longqi Yang · Liangliang Zhang · Wenjing Yang

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You Only Look at One Sequence: Rethinking Transformer in Vision through Object Detection

Yuxin Fang · Bencheng Liao · Xinggang Wang · Jiemin Fang · Jiyang Qi · Rui Wu · Jianwei Niu · Wenyu Liu In Poster Session 3

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Mining the Benefits of Two-stage and One-stage HOI Detection

Aixi Zhang · Yue Liao · Si Liu · Miao Lu · Yongliang Wang · Chen Gao · XIAOBO LI In Poster Session 3

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FlexMatch: Boosting Semi-Supervised Learning with Curriculum Pseudo Labeling

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Learning Transferable Adversarial Perturbations

Krishna kanth Nakka · Mathieu Salzmann

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Shape your Space: A Gaussian Mixture Regularization Approach to Deterministic

Autoencoders

Amrutha Saseendran · Kathrin Skubch · Stefan Falkner · Margret Keuper

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MLP-Mixer: An all-MLP Architecture for Vision

Ilya Tolstikhin · Neil Houlsby · Alexander Kolesnikov · Lucas Beyer · Xiaohua Zhai · Thomas Unterthiner · Jessica Yung · Andreas Steiner · Daniel Keysers · Jakob Uszkoreit · Mario Lucic · Alexey Dosovitskiy

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Instance-Conditional Knowledge Distillation for Object Detection

Zijian Kang · Peizhen Zhang · Xiangyu Zhang · Jian Sun · Nanning Zheng

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Dual-stream Network for Visual Recognition

Mingyuan Mao · peng gao · Renrui Zhang · Honghui Zheng · Teli Ma · Yan Peng · Errui Ding · Baochang Zhang · Shumin Han

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Iterative Teacher-Aware Learning

Luyao Yuan · Dongruo Zhou · Junhong Shen · Jingdong Gao · Jeffrey L Chen · Quanquan Gu · Ying Nian Wu · Song-Chun Zhu

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Distilling Object Detectors with Feature Richness

Du Zhixing · Rui Zhang · Ming Chang · xishan zhang · Shaoli Liu · Tianshi Chen · Yunji Chen

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Node Dependent Local Smoothing for Scalable Graph Learning

Wentao Zhang · Mingyu Yang · Zeang Sheng · Yang Li · Wen Ouyang · Yangyu Tao · Zhi Yang · Bin CUI

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Tracking People with 3D Representations

Jathushan Rajasegaran · Georgios Pavlakos · Angjoo Kanazawa · Jitendra Malik

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Offline Reinforcement Learning with Reverse Model-based Imagination

Jianhao Wang · Wenzhe Li · Haozhe Jiang · Guangxiang Zhu · Siyuan Li · Chongjie Zhang

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Towards Better Understanding of Training Certifiably Robust Models against Adversarial Examples

Sungyoon Lee · Woojin Lee · Jinseong Park · Jaewook Lee

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BCORLE(λ): An Offline Reinforcement Learning and Evaluation Framework for Coupons Allocation in E-commerce Market

Yang Zhang · Bo Tang · Qingyu Yang · Dou An · Hongyin Tang · Chenyang Xi · Xueying LI · Feiyu Xiong

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Few-Shot Object Detection via Association and Discrimination

Yuhang Cao · Jiaqi Wang · Ying Jin · Tong Wu · Kai Chen · Ziwei Liu · Dahua Lin

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TestRank: Bringing Order into Unlabeled Test Instances for Deep Learning Tasks

YU LI · Min LI · Qixia LAI · Yannan Liu · Qiang Xu

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Multimodal and Multilingual Embeddings for Large-Scale Speech Mining

Paul-Ambroise Duquenne · Hongyu Gong · Holger Schwenk

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Discovering Dynamic Salient Regions for Spatio-Temporal Graph Neural Networks

Iulia Duta · Andrei Nicolicioiu · Marius Leordeanu

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Fast Axiomatic Attribution for Neural Networks

Robin Hesse · Simone Schaub-Meyer · Stefan Roth

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Rethinking and Reweighting the Univariate Losses for Multi-Label Ranking: Consistency and Generalization

Guoqiang Wu · Chongxuan LI · Kun Xu · Jun Zhu

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SAPE: Spatially-Adaptive Progressive Encoding for Neural Optimization

Amir Hertz · Or Perel · Raja Giryes · Olga Sorkine-hornung · Daniel Cohen-or

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3D Pose Transfer with Correspondence Learning and Mesh Refinement

Chaoyue Song · Jiacheng Wei · Rubo Li · Fayao Liu · Guosheng Lin

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Self-Supervised Representation Learning on Neural Network Weights for Model Characteristic Prediction

Konstantin Schürholt · Dimche Kostadinov · Damian Borth

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How Should Pre-Trained Language Models Be Fine-Tuned Towards Adversarial Robustness?

Xinshuai Dong · Anh Tuan Luu · Min Lin · Shuicheng Yan · Hanwang Zhang

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Sifting through the noise: Universal first-order methods for stochastic variational inequalities

Kimon Antonakopoulos · Thomas Pethick · Ali Kavis · Panayotis Mertikopoulos · Volkan Cevher

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Dynamic Grained Encoder for Vision Transformers

Lin Song · Songyang Zhang · Songtao Liu · Zeming Li · Xuming He · Hongbin Sun · Jian Sun · Nanning Zheng In Poster Session 3

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OctField: Hierarchical Implicit Functions for 3D Modeling

Jia-Heng Tang · Weikai Chen · jie Yang · Bo Wang · Songrun Liu · Bo Yang · Lin Gao

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A self-consistent theory of Gaussian Processes captures feature learning effects in finite CNNs

Gadi Naveh · Zohar Ringel

In Poster Session 3

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Neural Additive Models: Interpretable Machine Learning with Neural Nets

Rishabh Agarwal · Levi Melnick · Nicholas Frosst · Xuezhou Zhang · Ben Lengerich · Rich Caruana · Geoffrey Hinton In Poster Session 3

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Uncertainty Quantification and Deep Ensembles

Rahul Rahaman · alexandre thiery

In Poster Session 3

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Debiased Visual Question Answering from Feature and Sample Perspectives

Zhiqian Wen · Guanghui Xu · Mingkui Tan · Qingyao Wu · Qi Wu

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Structured Dropout Variational Inference for Bayesian Neural Networks

Son Nguyen · Duong Nguyen · Khai Nguyen · Khoat Than · Hung Bui · Nhat Ho

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OSOA: One-Shot Online Adaptation of Deep Generative Models for Lossless Compression

Chen Zhang · Shifeng Zhang · Fabio Maria Carlucci · Zhengu Li

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Posterior Meta-Replay for Continual Learning

Christian Henning · Maria Cervera · Francesco D'Angelo · Johannes von Oswald · Regina Traber · Benjamin Ehret · Seiji Kobayashi · Benjamin F. Grewe · João Sacramento

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Contrastive Graph Poisson Networks: Semi-Supervised Learning with Extremely Limited Labels

Sheng Wan · Yibing Zhan · Liu Liu · Baosheng Yu · Shirui Pan · Chen Gong

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Generalization Bounds for Graph Embedding Using Negative Sampling: Linear vs Hyperbolic

Atsushi Suzuki · Atsushi Nitanda · jing wang · Linchuan Xu · Kenji Yamanishi · Marc Cavazza

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Combating Noise: Semi-supervised Learning by Region Uncertainty Quantification

Zhenyu Wang · Ya-Li Li · Ye Guo · Shengjin Wang

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Efficient Equivariant Network

Lingshen He · Yuxuan Chen · zhengyang shen · Yiming Dong · Yisen Wang · Zhouchen Lin

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Batch Normalization Orthogonalizes Representations in Deep Random Networks

Hadi Daneshmand · Amir Joudaki · Francis Bach

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Mitigating Forgetting in Online Continual Learning with Neuron Calibration	
Haiyan Yin · peng yang · Ping Li	In Poster Session 3
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Video Instance Segmentation using Inter-Frame Communication Transformers	
Sukjun Hwang · Miran Heo · Seoung Wug Oh · Seon Joo Kim	In Poster Session 3
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Integrating Expert ODEs into Neural ODEs: Pharmacology and Disease Progression	
Zhaozhi Qian · William Zame · Lucas Fleuren · Paul Elbers · Mihaela van der Schaar	In Poster Session 3
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Efficient Training of Visual Transformers with Small Datasets	
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MixACM: Mixup-Based Robustness Transfer via Distillation of Activated Channel Maps	
Awais Muhammad · Fengwei Zhou · Chuanlong Xie · Jiawei Li · Sung-Ho Bae · Zhenguo Li	In Poster Session 3
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Instance-Dependent Partial Label Learning	
Ning Xu · Congyu Qiao · Xin Geng · Min-Ling Zhang	In Poster Session 3
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UFC-BERT: Unifying Multi-Modal Controls for Conditional Image Synthesis	
Zhu Zhang · Jianxin Ma · Chang Zhou · Rui Men · Zhikang Li · Ming Ding · Jie Tang · Jingren Zhou · Hongxia Yang	In Poster Session 3
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Data-Efficient Instance Generation from Instance Discrimination	
Ceyuan Yang · Yujun Shen · Yinghao Xu · Bolei Zhou	In Poster Session 3
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Contrastive Laplacian Eigenmaps	
Hao Zhu · Ke Sun · Peter Koniusz	In Poster Session 3
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Adversarial Teacher-Student Representation Learning for Domain Generalization	
Fu-En Yang · Yuan-Chia Cheng · Zu-Yun Shiau · Yu-Chiang Frank Wang	In Poster Session 3
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Wed Dec 08 12:30 AM -- 02:00 AM (PST) @ Virtual	Poster
Action-guided 3D Human Motion Prediction Jiangxin Sun · Zihang Lin · Xintong Han · Jian-Fang Hu · Jia Xu · Wei-Shi Zheng	In Poster Session 3 [Slides] [ OpenReview]
Wed Dec 08 12:30 AM -- 02:00 AM (PST)	Poster
Learning Transferable Features for Point Cloud Detection via 3D Contrastive Co-training Zeng Yihan · Chunwei Wang · Yunbo Wang · Hang Xu · Chaoqiang Ye · Zhen Yang · Chao Ma	In Poster Session 3 [ OpenReview]
Wed Dec 08 12:30 AM -- 02:00 AM (PST)	Poster
K-Net: Towards Unified Image Segmentation Wenwei Zhang · Jiangmiao Pang · Kai Chen · Chen Change Loy	In Poster Session 3 [ OpenReview]
Wed Dec 08 12:30 AM -- 02:00 AM (PST)	Poster
CentripetalText: An Efficient Text Instance Representation for Scene Text Detection Tao Sheng · Jie Chen · Zhouhui Lian	In Poster Session 3 [ OpenReview]
Wed Dec 08 12:30 AM -- 02:00 AM (PST) @ Virtual	Poster
Probabilistic Entity Representation Model for Reasoning over Knowledge Graphs Narendra Choudhary · Nikhil Rao · Sumeet Katariya · Karthik Subbian · Chandan Reddy	In Poster Session 3 [Slides] [ OpenReview]
Wed Dec 08 12:30 AM -- 02:00 AM (PST)	Poster
Reliable Estimation of KL Divergence using a Discriminator in Reproducing Kernel Hilbert Space Sandesh Ghimire · Aria Masoomi · Jennifer Dy	In Poster Session 3 [ OpenReview]
Wed Dec 08 12:30 AM -- 02:00 AM (PST)	Poster
Learning Nonparametric Volterra Kernels with Gaussian Processes Magnus Ross · Michael T Smith · Mauricio Álvarez	In Poster Session 3 [ OpenReview]
Wed Dec 08 12:30 AM -- 02:00 AM (PST)	Poster
Robust Pose Estimation in Crowded Scenes with Direct Pose-Level Inference Dongkai Wang · Shiliang Zhang · Gang Hua	In Poster Session 3 [ OpenReview]
Wed Dec 08 12:30 AM -- 02:00 AM (PST)	Poster
Celebrating Diversity in Shared Multi-Agent Reinforcement Learning Li Chenghao · Tonghan Wang · Chengjie Wu · Qianchuan Zhao · Jun Yang · Chongjie Zhang	In Poster Session 3 [ OpenReview]
Wed Dec 08 12:30 AM -- 02:00 AM (PST) @ Virtual	Poster
Credit Assignment in Neural Networks through Deep Feedback Control Alexander Meulemans · Matilde Tristany Farinha · Javier Garcia Ordóñez · Pau Vilimelis Aceituno · João Sacramento · Benjamin F. Grewe	In Poster Session 3 [Slides] [ OpenReview]

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Poster

Word2Fun: Modelling Words as Functions for Diachronic Word Representation

Benyou Wang · Emanuele Di Buccio · Massimo Melucci

In Poster Session 3

[ OpenReview]

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Poster

A Hierarchical Reinforcement Learning Based Optimization Framework for Large-scale Dynamic Pickup and Delivery Problems

Yi Ma · Xiaotian Hao · Jianye Hao · Jiawen Lu · Xing Liu · Tong Xiaoliang · Mingxuan Yuan · Zhigang Li · Jie Tang In Poster Session 3
· Zhaopeng Meng

[ OpenReview]

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Poster

Disentangling the Roles of Curation, Data-Augmentation and the Prior in the Cold Posterior Effect

Lorenzo Noci · Kevin Roth · Gregor Bachmann · Sebastian Nowozin · Thomas Hofmann

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

On Robust Optimal Transport: Computational Complexity and Barycenter Computation

Khang Le · Huy Nguyen · Quang M Nguyen · Tung Pham · Hung Bui · Nhat Ho

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

GraphFormers: GNN-nested Transformers for Representation Learning on Textual Graph

Junhan Yang · Zheng Liu · Shitao Xiao · Chaozhuo Li · Defu Lian · Sanjay Agrawal · Amit Singh · Guangzhong Sun · Xing Xie

[ OpenReview]

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Poster

Learning Conjoint Attentions for Graph Neural Nets

Tiantian He · Yew Soon Ong · L Bai

In Poster Session 3

[Slides] [ OpenReview]

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Poster

Pareto Domain Adaptation

fangrui lv · Jian Liang · Kaixiong Gong · Shuang Li · Chi Harold Liu · Han Li · Di Liu · Guoren Wang

In Poster Session 3

[ OpenReview]

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Poster

Compacter: Efficient Low-Rank Hypercomplex Adapter Layers

Rabeeh Karimi Mahabadi · James Henderson · Sebastian Ruder

In Poster Session 3

[Slides] [ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Training Neural Networks is ER-complete

Mikkel Abrahamsen · Linda Kleist · Tillmann Miltzow

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

LADA: Look-Ahead Data Acquisition via Augmentation for Deep Active Learning

Yoon-Yeong Kim · Kyungwoo Song · JoonHo Jang · Il-chul Moon

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Alias-Free Generative Adversarial Networks

Tero Karras · Miika Aittala · Samuli Laine · Erik Häkkinen · Janne Hellsten · Jaakko Lehtinen · Timo Aila

In Poster Session 3

[ OpenReview]

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Towards Understanding Cooperative Multi-Agent Q-Learning with Value Factorization

Jianhao Wang · Zhizhou Ren · Beining Han · Jianing Ye · Chongjie Zhang

In Poster Session 3

[ OpenReview]

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Poster

STEP: Out-of-Distribution Detection in the Presence of Limited In-Distribution Labeled Data

Zhi Zhou · Lan-Zhe Guo · Zhanzhan Cheng · Yu-Feng Li · Shiliang Pu

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

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Credal Self-Supervised Learning

Julian Lienen · Eyke Hüllermeier

In Poster Session 3

[ OpenReview]

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Invertible Tabular GANs: Killing Two Birds with One Stone for Tabular Data Synthesis

JAEOHON LEE · Jihyeon Hyeong · Jinsung Jeon · Noseong Park · Jihoon Cho

In Poster Session 3

[Slides] [ OpenReview]

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ABC: Auxiliary Balanced Classifier for Class-imbalanced Semi-supervised Learning

Hyuck Lee · Seungjae Shin · Heeyoung Kim

In Poster Session 3

[ OpenReview]

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Adversarial Examples in Multi-Layer Random ReLU Networks

Peter Bartlett · Sébastien Bubeck · Yeshwanth Cherapanamjeri

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Non-approximate Inference for Collective Graphical Models on Path Graphs via Discrete Difference of Convex Algorithm

Yasunori Akagi · Naoki Marumo · Hideaki Kim · Takeshi Kurashima · Hiroyuki Toda

In Poster Session 3

[ OpenReview]

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Labeling Trick: A Theory of Using Graph Neural Networks for Multi-Node Representation Learning

Muhan Zhang · Pan Li · Yinglong Xia · Kai Wang · Long Jin

In Poster Session 3

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Do Input Gradients Highlight Discriminative Features?

Harshay Shah · Prateek Jain · Praneeth Netrapalli

In Poster Session 3

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RIM: Reliable Influence-based Active Learning on Graphs

Wentao Zhang · Yexin Wang · Zhenbang You · Meng Cao · Ping Huang · Jiulong Shan · Zhi Yang · Bin CUI

In Poster Session 3

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Probabilistic Margins for Instance Reweighting in Adversarial Training

qizhou wang · Feng Liu · Bo Han · Tongliang Liu · Chen Gong · Gang Niu · Mingyuan Zhou · Masashi Sugiyama In Poster Session 3

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Poster

A PAC-Bayes Analysis of Adversarial Robustness

Paul Viallard · Eric Guillaume VIDOT · Amaury Habrard · Emilie Morvant

In Poster Session 3

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

What Matters for Adversarial Imitation Learning?

Manu Orsini · Anton Raichuk · Leonard Hussenot · Damien Vincent · Robert Dadashi · Sertan Girgin · Matthieu Geist · Olivier Bachem · Olivier Pietquin · Marcin Andrychowicz

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Bridging Explicit and Implicit Deep Generative Models via Neural Stein Estimators

Qitian Wu · Rui Gao · Hongyuan Zha

In Poster Session 3

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Unleashing the Power of Contrastive Self-Supervised Visual Models via Contrast-Regularized Fine-Tuning

Yifan Zhang · Bryan Hooi · Dapeng Hu · Jian Liang · Jiashi Feng

In Poster Session 3

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Locally Most Powerful Bayesian Test for Out-of-Distribution Detection using Deep Generative Models

Keunseo Kim · JunCheol Shin · Heeyoung Kim

In Poster Session 3

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Using Random Effects to Account for High-Cardinality Categorical Features and Repeated Measures in Deep Neural Networks

Giora Simchoni · Saharon Rosset

In Poster Session 3

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Not All Images are Worth 16x16 Words: Dynamic Transformers for Efficient Image Recognition	
Yulin Wang · Rui Huang · Shiji Song · Zeyi Huang · Gao Huang	In Poster Session 3
[🔗 OpenReview]	
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IQ-Learn: Inverse soft-Q Learning for Imitation	
Divyansh Garg · Shuvam Chakraborty · Chris Cundy · Jiaming Song · Stefano Ermon	In Poster Session 3
[Slides] [🔗 OpenReview]	
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Revitalizing CNN Attention via Transformers in Self-Supervised Visual Representation Learning	
Chongjian GE · Youwei Liang · YIBING SONG · Jianbo Jiao · Jue Wang · Ping Luo	In Poster Session 3
[🔗 OpenReview]	
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Learning to Simulate Self-driven Particles System with Coordinated Policy Optimization	
Zhenghao Peng · Quanyi Li · Ka Ming Hui · Chunxiao Liu · Bolei Zhou	In Poster Session 3
[🔗 OpenReview]	
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Physics-Aware Downsampling with Deep Learning for Scalable Flood Modeling	
Niv Giladi · Zvika Ben-Haim · Sella Nevo · Yossi Matias · Daniel Soudry	In Poster Session 3
[🔗 OpenReview]	
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Convex-Concave Min-Max Stackelberg Games	
Denizalp Goktas · Amy Greenwald	In Poster Session 3
[Slides] [🔗 OpenReview]	
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Alignment Attention by Matching Key and Query Distributions	
Shujian Zhang · Xinjie Fan · Huangjie Zheng · Korawat Tanwisuth · Mingyuan Zhou	In Poster Session 3
[🔗 OpenReview]	
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Universal Semi-Supervised Learning	
Zhuo Huang · Chao Xue · Bo Han · Jian Yang · Chen Gong	In Poster Session 3
[🔗 OpenReview]	
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Dynamic Sasvi: Strong Safe Screening for Norm-Regularized Least Squares	
Hiroaki Yamada · Makoto Yamada	In Poster Session 3
[🔗 OpenReview]	
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Regularized Softmax Deep Multi-Agent Q-Learning	
Ling Pan · Tabish Rashid · Bei Peng · Longbo Huang · Shimon Whiteson	In Poster Session 3

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The Image Local Autoregressive Transformer
Chenjie Cao · Yuxin Hong · Xiang Li · Chengrong Wang · Chengming Xu · Yanwei Fu · Xiangyang Xue In Poster Session 3
[Slides] [ OpenReview]
- Wed Dec 08 12:30 AM -- 02:00 AM (PST) Poster
An Empirical Study of Adder Neural Networks for Object Detection
Xinghao Chen · Chang Xu · Minjing Dong · Chunjing XU · Yunhe Wang In Poster Session 3
[ OpenReview]
- Wed Dec 08 12:30 AM -- 02:00 AM (PST) @ Virtual Poster
Regularized Frank-Wolfe for Dense CRFs: Generalizing Mean Field and Beyond
D.Khuê Lê-Huu · Karteek Alahari In Poster Session 3
[Slides] [ OpenReview]
- Wed Dec 08 12:30 AM -- 02:00 AM (PST) Poster
Two steps to risk sensitivity
Christopher Gagne · Peter Dayan In Poster Session 3
[ OpenReview]
- Wed Dec 08 12:30 AM -- 02:00 AM (PST) Poster
Provable Guarantees for Self-Supervised Deep Learning with Spectral Contrastive Loss
Jeff Z. HaoChen · Colin Wei · Adrien Gaidon · Tengyu Ma In Poster Session 3
[ OpenReview]
- Wed Dec 08 12:30 AM -- 02:00 AM (PST) Poster
A Trainable Spectral-Spatial Sparse Coding Model for Hyperspectral Image Restoration
Theo Bodrofit · Alexandre Zouaoui · Jocelyn Chanussot · Julien Mairal In Poster Session 3
[ OpenReview]
- Wed Dec 08 12:30 AM -- 02:00 AM (PST) Poster
Learning Debiased and Disentangled Representations for Semantic Segmentation
Sanghyeok Chu · Dongwan Kim · Bohyung Han In Poster Session 3
[ OpenReview]
- Wed Dec 08 12:30 AM -- 02:00 AM (PST) Poster
On the Convergence of Step Decay Step-Size for Stochastic Optimization
Xiaoyu Wang · Sindri Magnússon · Mikael Johansson In Poster Session 3
[ OpenReview]
- Wed Dec 08 12:30 AM -- 02:00 AM (PST) Poster
Continuized Accelerations of Deterministic and Stochastic Gradient Descents, and of Gossip Algorithms
Mathieu Even · Raphaël Berthier · Francis Bach · Nicolas Flammarion · Hadrien Hendrikx · Pierre Gaillard · Laurent Massoulié · Adrien Taylor In Poster Session 3
[ OpenReview]
- Wed Dec 08 12:30 AM -- 02:00 AM (PST) @ Virtual Poster
Exploiting Domain-Specific Features to Enhance Domain Generalization

[Slides] [ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Instance-Dependent Bounds for Zeroth-order Lipschitz Optimization with Error Certificates

Francois Bachoc · Tom Cesari · Sébastien Gerchinovitz

In Poster Session 3

[ OpenReview]

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Poster

Adaptive Online Packing-guided Search for POMDPs

Chenyang Wu · Guoyu Yang · Zongzhang Zhang · Yang Yu · Dong Li · Wulong Liu · Jianye Hao

In Poster Session 3

[ OpenReview]

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Poster

Even your Teacher Needs Guidance: Ground-Truth Targets Dampen Regularization

Imposed by Self-Distillation

Kenneth Borup · Lars N Andersen

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST) @ Virtual

Poster

Scalable Rule-Based Representation Learning for Interpretable Classification

Zhuo Wang · Wei Zhang · Ning Liu · Jianyong Wang

In Poster Session 3

[Slides] [ OpenReview]

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Poster

Deep learning is adaptive to intrinsic dimensionality of model smoothness in anisotropic Besov space

Taiji Suzuki · Atsushi Nitanda

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Generalized and Discriminative Few-Shot Object Detection via SVD-Dictionary Enhancement

Aming WU · Suqi Zhao · Cheng Deng · Wei Liu

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST) @ Virtual

Poster

Learning to dehaze with polarization

Chu Zhou · Minggui Teng · Yufei Han · Chao Xu · Boxin Shi

In Poster Session 3

[Slides] [ OpenReview]

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Poster

Generative vs. Discriminative: Rethinking The Meta-Continual Learning

Mohammadamin Banayeeanzade · Rasoul Mirzaiezadeh · Hosein Hasani · Mahdieh Soleymani

In Poster Session 3

[ OpenReview]

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RETRIEVE: Coreset Selection for Efficient and Robust Semi-Supervised Learning

Krishnateja Killamsetty · Xujiang Zhao · Feng Chen · Rishabh Iyer

In Poster Session 3

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Unsupervised Representation Transfer for Small Networks: I Believe I Can Distill On-the-Fly

Hee Min Choi · Hyoa Kang · Dokwan Oh

In Poster Session 3

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Poster

All Tokens Matter: Token Labeling for Training Better Vision Transformers

Zi-Hang Jiang · Qibin Hou · Li Yuan · Daquan Zhou · Yujun Shi · Xiaojie Jin · Anran Wang · Jiashi Feng In Poster Session 3

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Recognizing Vector Graphics without Rasterization

XINYANG JIANG · LU LIU · Caihua Shan · Yifei Shen · Xuanyi Dong · Dongsheng Li

In Poster Session 3

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Poster

DualNet: Continual Learning, Fast and Slow

Quang Pham · Chenghao Liu · Steven Hoi

In Poster Session 3

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Ising Model Selection Using ℓ_1 -Regularized Linear Regression: A Statistical Mechanics Analysis

Xiangming Meng · Tomoyuki Obuchi · Yoshiyuki Kabashima

In Poster Session 3

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Poster

Predicting Molecular Conformation via Dynamic Graph Score Matching

Shitong Luo · Chence Shi · Minkai Xu · Jian Tang

In Poster Session 3

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Poster

Balanced Chamfer Distance as a Comprehensive Metric for Point Cloud Completion

Tong Wu · Liang Pan · Junzhe Zhang · Tai WANG · Ziwei Liu · Dahua Lin

In Poster Session 3

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Linear Convergence of Gradient Methods for Estimating Structured Transition Matrices in High-dimensional Vector Autoregressive Models

Xiao Lv · Wei Cui · Yulong Liu

In Poster Session 3

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Poster

Self-Instantiated Recurrent Units with Dynamic Soft Recursion

Aston Zhang · Yi Tay · Yikang Shen · Alvin Chan · SHUAI ZHANG

In Poster Session 3

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Policy Learning Using Weak Supervision

Jingkang Wang · Hongyi Guo · Zhaowei Zhu · Yang Liu

In Poster Session 3

[Slides] [ OpenReview]

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Poster

Implicit Deep Adaptive Design: Policy-Based Experimental Design without Likelihoods

Desi R Ivanova · Adam Foster · Steven Kleinegesse · Michael Gutmann · Thomas Rainforth

In Poster Session 3

[ OpenReview]

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Learning on Random Balls is Sufficient for Estimating (Some) Graph Parameters

Takanori Maehara · Hoang NT

In Poster Session 3

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Poster

Safe Reinforcement Learning by Imagining the Near Future

Garrett Thomas · Yuping Luo · Tengyu Ma

In Poster Session 3

[ OpenReview]

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Poster

Duplex Sequence-to-Sequence Learning for Reversible Machine Translation

Zaixiang Zheng · Hao Zhou · Shujian Huang · Jiajun Chen · Jingjing Xu · Lei Li

In Poster Session 3

[ OpenReview]

Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Only Train Once: A One-Shot Neural Network Training And Pruning Framework

Tianyi Chen · Bo Ji · Tianyu Ding · Biyi Fang · Guanyi Wang · Zhihui Zhu · Luming Liang · Yixin Shi · Sheng Yi · In Poster Session 3
Xiao Tu

[ OpenReview]

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Learning Causal Semantic Representation for Out-of-Distribution Prediction

Chang Liu · Xinwei Sun · Jindong Wang · Haoyue Tang · Tao Li · Tao Qin · Wei Chen · Tie-Yan Liu

In Poster Session 3

[Slides] [ OpenReview]

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Poster

BlendGAN: Implicitly GAN Blending for Arbitrary Stylized Face Generation

Mingcong Liu · Qiang Li · Zekui Qin · Guoxin Zhang · Pengfei Wan · Wen Zheng

In Poster Session 3

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Poster

Learning to Execute: Efficient Learning of Universal Plan-Conditioned Policies in Robotics

Ingmar Schubert · Danny Driess · Ozgur S. Oguz · Marc Toussaint

In Poster Session 3

[ OpenReview]

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Poster

Interpreting Representation Quality of DNNs for 3D Point Cloud Processing

Wen Shen · Qihan Ren · Dongrui Liu · Quanshi Zhang

In Poster Session 3

[Slides] [ OpenReview]

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Poster

Learning to Generate Realistic Noisy Images via Pixel-level Noise-aware Adversarial Training

Yuanhao Cai · Xiaowan Hu · Haoqian Wang · Yulun Zhang · Hanspeter Pfister · Donglai Wei

In Poster Session 3

[Slides] [ OpenReview]

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Poster

Relative Uncertainty Learning for Facial Expression Recognition

Yuhang Zhang · Chengrui Wang · Weihong Deng

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Set Prediction in the Latent Space

Konpat Preechakul · Chawan Piansaddhayanon · Burin Naowarat · Tirasan Khandhawit · Sira Srivwasdi · Ekapol Chuangsuvanich

In Poster Session 3

[ OpenReview]

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Garment4D: Garment Reconstruction from Point Cloud Sequences

Fangzhou Hong · Liang Pan · Zhongang Cai · Ziwei Liu

In Poster Session 3

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Poster

A single gradient step finds adversarial examples on random two-layers neural networks

Sebastien Bubeck · Yeshwanth Cherapanamjeri · Gauthier Gidel · Remi Tachet des Combes

In Poster Session 3

[ OpenReview]

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Weak-shot Fine-grained Classification via Similarity Transfer

Junjie Chen · Li Niu · Liu Liu · Liqing Zhang

In Poster Session 3

[ OpenReview]

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Poster

Self-Supervised GANs with Label Augmentation

Liang Hou · Huawei Shen · Qi Cao · Xueqi Cheng

In Poster Session 3

[ OpenReview]

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Online Variational Filtering and Parameter Learning

Andrew Campbell · Yuyang Shi · Thomas Rainforth · Arnaud Doucet

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Convex Polytope Trees

Mohammadreza Armandpour · Ali Sadeghian · Mingyuan Zhou

In Poster Session 3

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Wed Dec 08 12:30 AM -- 02:00 AM (PST)

Poster

Align before Fuse: Vision and Language Representation Learning with Momentum Distillation

Junnan Li · Ramprasaath Selvaraju · Akhilesh Gotmare · Shafiq Joty · Caiming Xiong · Steven Chu Hong Hoi

In Poster Session 3

[ OpenReview]

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Poster

Collaborative Learning in the Jungle (Decentralized, Byzantine, Heterogeneous, Asynchronous and Nonconvex Learning)

El Mahdi El-Mhamdi · Sadegh Farhadkhani · Rachid Guerraoui · Arsany Guirguis · Lê-Nguyễn Hoang · Sébastien Rouault

[ OpenReview]

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Stable Neural ODE with Lyapunov-Stable Equilibrium Points for Defending Against Adversarial Attacks

Qiyu Kang · Yang Song · Qin Xu Ding · Wee Peng Tay

In Poster Session 3

[ OpenReview]

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Analogous to Evolutionary Algorithm: Designing a Unified Sequence Model

Jiangning Zhang · Chao Xu · Jian Li · Wenzhou Chen · Yabiao Wang · Ying Tai · Shuo Chen · Chengjie Wang · Feiyue Huang · Yong Liu

In Poster Session 3

[ OpenReview]

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Poster

Landmark-RxR: Solving Vision-and-Language Navigation with Fine-Grained Alignment Supervision

Keji He · Yan Huang · Qi Wu · Jianhua Yang · Dong An · Shuanglin Sima · Liang Wang

In Poster Session 3

[ OpenReview]

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Poster

SBO-RNN: Reformulating Recurrent Neural Networks via Stochastic Bilevel Optimization

Ziming Zhang · Yun Yue · Guojun Wu · Yanhua Li · Haichong Zhang

In Poster Session 3

[ OpenReview]

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Greedy and Random Quasi-Newton Methods with Faster Explicit Superlinear Convergence

Dachao Lin · Haishan Ye · Zhihua Zhang

In Poster Session 3

[ OpenReview]

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Poster

Coordinated Proximal Policy Optimization

Zifan Wu · Chao Yu · Deheng Ye · Junge Zhang · haiyin piao · Hankz Hankui Zhuo

In Poster Session 3

[ OpenReview]

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Handling Long-tailed Feature Distribution in AdderNets

Minjing Dong · Yunhe Wang · Xinghao Chen · Chang Xu

In Poster Session 3

[ OpenReview]

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A Framework to Learn with Interpretation

Jayneel Parekh · Pavlo Mozharovskyi · Florence d'Alché-Buc

In Poster Session 3

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Neural Architecture Dilation for Adversarial Robustness	
Yanxi Li · Zhaoxiang Yang · Yunhe Wang · Chang Xu	In Poster Session 3
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Variational Bayesian Reinforcement Learning with Regret Bounds	
Brendan O'Donoghue	In Poster Session 3
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Wed Dec 08 12:30 AM -- 02:00 AM (PST) @ Virtual	Poster
Pruning Randomly Initialized Neural Networks with Iterative Randomization	
Daiki Chijiwa · Shin'ya Yamaguchi · Yasutoshi Ida · Kenji Umakoshi · Tomohiro INOUE	In Poster Session 3
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Rate-Optimal Subspace Estimation on Random Graphs	
Zhixin Zhou · Fan Zhou · Ping Li · Cun-Hui Zhang	In Poster Session 3
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GradInit: Learning to Initialize Neural Networks for Stable and Efficient Training	
Chen Zhu · Renkun Ni · Zheng Xu · Kezhi Kong · W. Ronny Huang · Tom Goldstein	In Poster Session 3
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Searching Parameterized AP Loss for Object Detection	
Tao Chenxin · Zizhang Li · Xizhou Zhu · Gao Huang · Yong Liu · jifeng dai	In Poster Session 3
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SPANN: Highly-efficient Billion-scale Approximate Nearest Neighborhood Search	
Qi Chen · Bing Zhao · Haidong Wang · Mingqin Li · Chuanjie Liu · Zengzhong Li · Mao Yang · Jingdong Wang	In Poster Session 3
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Capturing implicit hierarchical structure in 3D biomedical images with self-supervised hyperbolic representations	
Joy Hsu · Jeffrey Gu · Gong Wu · Wah Chiu · Serena Yeung	In Poster Session 3
[ OpenReview]	
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Smooth Bilevel Programming for Sparse Regularization	
Clarice Poon · Gabriel Peyré	In Poster Session 3
[ OpenReview]	
Wed Dec 08 12:30 AM -- 02:00 AM (PST)	Poster
Unbalanced Optimal Transport through Non-negative Penalized Linear Regression	
Laetitia Chapel · Rémi Flamary · Haoran Wu · Cédric Févotte · Gilles Gasso	In Poster Session 3
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Hard-Attention for Scalable Image Classification

Athanasis Papadopoulos · Paweł Korus · Nasir Memon

In Poster Session 3

[Slides] [ OpenReview]

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Distilling Meta Knowledge on Heterogeneous Graph for Illicit Drug Trafficker Detection on Social Media

Yiyue Qian · Yiming Zhang · Yanfang (Fa) Ye · Chuxu Zhang

In Poster Session 3

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Navigating to the Best Policy in Markov Decision Processes

Aymen Al Marjani · Aurélien Garivier · Alexandre Proutiere

In Poster Session 3

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BooVAE: Boosting Approach for Continual Learning of VAE

Evgenii Egorov · Anna Kuzina · Evgeny Burnaev

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Towards Stable and Robust AdderNets

Minjing Dong · Yunhe Wang · Xinghao Chen · Chang Xu

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Deep Molecular Representation Learning via Fusing Physical and Chemical Information

Shuwen Yang · Ziyao Li · Guojie Song · Lingsheng Cai

In Poster Session 3

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General Low-rank Matrix Optimization: Geometric Analysis and Sharper Bounds

Haixiang Zhang · Yingjie Bi · Javad Lavaei

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Neural Relightable Participating Media Rendering

Quan Zheng · Gurprit Singh · Hans-peter Seidel

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Transformer in Transformer

Kai Han · An Xiao · Enhua Wu · Jianyuan Guo · Chunjing XU · Yunhe Wang

In Poster Session 3

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A/B/n Testing with Control in the Presence of Subpopulations

Yoan Russac · Christina Katsimerou · Dennis Bohle · Olivier Cappé · Aurélien Garivier · Wouter Koolen

In Poster Session 3

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DynamicViT: Efficient Vision Transformers with Dynamic Token Sparsification

Yongming Rao · Wenliang Zhao · Benlin Liu · Jiwen Lu · Jie Zhou · Cho-Jui Hsieh

In Poster Session 3

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No-regret Online Learning over Riemannian Manifolds

Xi Wang · Zhipeng Tu · Yiguang Hong · Yingyi Wu · Guodong Shi

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Online Learning Of Neural Computations From Sparse Temporal Feedback

Lukas Braun · Tim Vogels

In Poster Session 3

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Flattening Sharpness for Dynamic Gradient Projection Memory Benefits Continual Learning

Danruo DENG · Guangyong Chen · Jianye Hao · Qiong Wang · Pheng-Ann Heng

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FINE Samples for Learning with Noisy Labels

Taehyeon Kim · Jongwoo Ko · sangwook Cho · JinHwan Choi · Se-Young Yun

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MST: Masked Self-Supervised Transformer for Visual Representation

Zhaowen Li · Zhiyang Chen · Fan Yang · Wei Li · Yousong Zhu · Chaoyang Zhao · Rui Deng · Liwei Wu · Rui Zhao · Ming Tang · Jinqiao Wang

In Poster Session 4

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Progressive Coordinate Transforms for Monocular 3D Object Detection

Li Wang · Li Zhang · Yi Zhu · Zhi Zhang · Tong He · Mu Li · Xiangyang Xue

In Poster Session 4

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SEAL: Self-supervised Embodied Active Learning using Exploration and 3D Consistency

Devendra Singh Chaplot · Murtaza Dalal · Saurabh Gupta · Jitendra Malik · Russ Salakhutdinov

In Poster Session 4

[Slides] [ OpenReview]

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Sequence-to-Sequence Learning with Latent Neural Grammars

Yoon Kim

In Poster Session 4

[ OpenReview]

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Rectangular Flows for Manifold Learning

Anthony Caterini · Gabriel Loaiza-Ganem · Geoff Pleiss · John Cunningham

In Poster Session 4

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Why Do Pretrained Language Models Help in Downstream Tasks? An Analysis of Head and Prompt Tuning

Colin Wei · Sang Michael Xie · Tengyu Ma

In Poster Session 4

[ OpenReview]

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Sliced Mutual Information: A Scalable Measure of Statistical Dependence

Ziv Goldfeld · Kristjan Greenewald

In Poster Session 4

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Learning Student-Friendly Teacher Networks for Knowledge Distillation

Dae Young Park · Moon-Hyun Cha · changwook jeong · Daesin Kim · Bohyung Han

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Revisiting Discriminator in GAN Compression: A Generator-discriminator Cooperative Compression Scheme

Shaojie Li · Jie Wu · Xuefeng Xiao · Fei Chao · Xudong Mao · Rongrong Ji

In Poster Session 4

[ OpenReview]

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Conditionally Parameterized, Discretization-Aware Neural Networks for Mesh-Based Modeling of Physical Systems

Jiayang Xu · Aniruddhe Pradhan · Karthikeyan Duraisamy

In Poster Session 4

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Why Spectral Normalization Stabilizes GANs: Analysis and Improvements

Zinan Lin · Vyas Sekar · Giulia Fanti

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Variance-Aware Off-Policy Evaluation with Linear Function Approximation

Yifei Min · Tianhao Wang · Dongruo Zhou · Quanquan Gu

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[Slides] [ OpenReview]

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Multi-task Learning of Order-Consistent Causal Graphs

Xinshi Chen · Haoran Sun · Caleb Ellington · Eric Xing · Le Song

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Multiple Descent: Design Your Own Generalization Curve

Lin Chen · Yifei Min · Mikhail Belkin · Amin Karbasi

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Pseudo-Spherical Contrastive Divergence

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Look at What I'm Doing: Self-Supervised Spatial Grounding of Narrations in Instructional Videos

Reuben Tan · Bryan Plummer · Kate Saenko · Hailin Jin · Bryan Russell

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Continual Learning via Local Module Composition

Oleksiy Ostapenko · Pau Rodriguez · Massimo Caccia · Laurent Charlin

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Fine-Grained Zero-Shot Learning with DNA as Side Information

Sarkhan Badirlı · Zeynep Akata · George Mohler · Christine Picard · Mehmet M Dundar

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Pretraining Representations for Data-Efficient Reinforcement LearningMax Schwarzer · Nitashan Rajkumar · Michael Noukhovitch · Ankesh Anand · Laurent Charlin · R Devon Hjelm · In Poster Session 4
Philip Bachman · Aaron Courville[ OpenReview]

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On the Representation Power of Set Pooling Networks

Christian Bueno · Alan Hylton

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A Topological Perspective on Causal Inference

Duligur Ibeling · Thomas Icard

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Bootstrapping the Error of Oja's Algorithm

Robert Lunde · Purnamrita Sarkar · Rachel Ward

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Best of Both Worlds: Practical and Theoretically Optimal Submodular Maximization in Parallel

Yixin Chen · Tonmoy Dey · Alan Kuhnle

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Probability Paths and the Structure of Predictions over Time

Zhiyuan Jerry Lin · Hao Sheng · Sharad Goel

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Shifted Chunk Transformer for Spatio-Temporal Representational Learning

Xuefan Zha · Wentao Zhu · Lv Xun · Sen Yang · Ji Liu In Poster Session 4

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Topic Modeling Revisited: A Document Graph-based Neural Network Perspective

Dazhong Shen · Chuan Qin · Chao Wang · Zheng Dong · Hengshu Zhu · Hui Xiong In Poster Session 4

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Controlled Text Generation as Continuous Optimization with Multiple Constraints

Sachin Kumar · Eric Malmi · Aliaksei Severyn · Yulia Tsvetkov In Poster Session 4

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On the Value of Interaction and Function Approximation in Imitation Learning

Nived Rajaraman · Yanjun Han · Lin Yang · Jingbo Liu · Jiantao Jiao · Kannan Ramchandran In Poster Session 4

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Change Point Detection via Multivariate Singular Spectrum Analysis

Arwa Alanqary · Abdullah Alomar · Devavrat Shah In Poster Session 4

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A Variational Perspective on Diffusion-Based Generative Models and Score Matching

Chin-Wei Huang · Jae Hyun Lim · Aaron Courville In Poster Session 4

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Parameterized Knowledge Transfer for Personalized Federated Learning

Jie Zhang · Song Guo · Xiaosong Ma · Haozhao Wang · Wenchao Xu · Feijie Wu In Poster Session 4

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Localization with Sampling-Argmax

Jiefeng Li · Tong Chen · Ruiqi Shi · Yujing Lou · Yong-Lu Li · Cewu Lu In Poster Session 4

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Posterior Collapse and Latent Variable Non-identifiability

Yixin Wang · David Blei · John Cunningham In Poster Session 4

[Slides] [ OpenReview]

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Deep Self-Dissimilarities as Powerful Visual Fingerprints

Idan Kligvasser · Tamar Shaham · Yuval Bahat · Tomer Michaeli In Poster Session 4

[ OpenReview]

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Efficient Mirror Descent Ascent Methods for Nonsmooth Minimax Problems

Feihu Huang · Xidong Wu · Heng Huang

In Poster Session 4

[Slides] [ OpenReview]

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Raw Nav-merge Seismic Data to Subsurface Properties with MLP based Multi-Modal Information Unscrambler

Aditya Desai · Zhaozhuo Xu · Menal Gupta · Anu Chandran · Antoine Vial-Aussavy · Anshumali Shrivastava

In Poster Session 4

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Combining Latent Space and Structured Kernels for Bayesian Optimization over Combinatorial Spaces

Aryan Deshwal · Jana Doppa

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A Geometric Structure of Acceleration and Its Role in Making Gradients Small Fast

Jongmin Lee · Chanwoo Park · Ernest Ryu

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A nonparametric method for gradual change problems with statistical guarantees

Lizhen Nie · Dan Niccolae

In Poster Session 4

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Scaling Up Exact Neural Network Compression by ReLU Stability

Thiago Serra · Xin Yu · Abhinav Kumar · Srikanth Ramalingam

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Generalization Bounds for (Wasserstein) Robust Optimization

Yang An · Rui Gao

In Poster Session 4

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On the Convergence and Sample Efficiency of Variance-Reduced Policy Gradient Method

Junyu Zhang · Chengzhuo Ni · Zheng Yu · Csaba Szepesvari · Mengdi Wang

In Poster Session 4

[ OpenReview]

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Spatial-Temporal Super-Resolution of Satellite Imagery via Conditional Pixel Synthesis

Yutong He · Dingjie Wang · Nicholas Lai · William Zhang · Chenlin Meng · Marshall Burke · David Lobell · Stefano Ermon

[ OpenReview]

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A Convergence Analysis of Gradient Descent on Graph Neural Networks

Pranjal Awasthi · Abhimanyu Das · Sreenivas Gollapudi

In Poster Session 4

[Slides] [ OpenReview]

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RoMA: Robust Model Adaptation for Offline Model-based Optimization Sihyun Yu · Sungsoo Ahn · Le Song · Jinwoo Shin	In Poster Session 4 [OpenReview]
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HRFormer: High-Resolution Vision Transformer for Dense Predict YUHUI YUAN · Rao Fu · Lang Huang · Weihong Lin · Chao Zhang · Xilin Chen · Jingdong Wang	In Poster Session 4 [OpenReview]
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Fault-Tolerant Federated Reinforcement Learning with Theoretical Guarantee Xiaofeng Fan · Yining Ma · Zhongxiang Dai · Wei Jing · Cheston Tan · Bryan Kian Hsiang Low	In Poster Session 4 [Slides] [OpenReview]
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Optimal prediction of Markov chains with and without spectral gap Yanjun Han · Soham Jana · Yihong Wu	In Poster Session 4 [OpenReview]
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Gone Fishing: Neural Active Learning with Fisher Embeddings Jordan Ash · Surbhi Goel · Akshay Krishnamurthy · Sham Kakade	In Poster Session 4 [OpenReview]
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Robust Compressed Sensing MRI with Deep Generative Priors Ajil Jalal · Marius Arvinte · Giannis Daras · Eric Price · Alexandros Dimakis · Jon Tamir	In Poster Session 4 [OpenReview]
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Deep Extended Hazard Models for Survival Analysis Qixian Zhong · Jonas Mueller · Jane-Ling Wang	In Poster Session 4 [OpenReview]
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Characterizing possible failure modes in physics-informed neural networks Aditi Krishnapriyan · Amir Gholami · Shandian Zhe · Robert Kirby · Michael Mahoney	In Poster Session 4 [OpenReview]
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Detecting Errors and Estimating Accuracy on Unlabeled Data with Self-training Ensembles Jiefeng Chen · Frederick Liu · Besim Avci · Xi Wu · Yingyu Liang · Somesh Jha	In Poster Session 4 [OpenReview]
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Locally Valid and Discriminative Prediction Intervals for Deep Learning Models Zhen Lin · Shubhendu Trivedi · Jimeng Sun	In Poster Session 4 [OpenReview]

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Coupled Gradient Estimators for Discrete Latent Variables

Zhe Dong · Andriy Mnih · George Tucker

In Poster Session 4

[ OpenReview]

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Corruption Robust Active Learning

Yifang Chen · Simon Du · Kevin Jamieson

In Poster Session 4

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Structure learning in polynomial time: Greedy algorithms, Bregman information, and exponential families

Goutham Rajendran · Bohdan Kivva · Ming Gao · Bryon Aragam

In Poster Session 4

[ OpenReview]

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Selective Sampling for Online Best-arm Identification

Romain Camilleri · Zhihan Xiong · Maryam Fazel · Lalit Jain · Kevin Jamieson

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Derivative-Free Policy Optimization for Linear Risk-Sensitive and Robust Control Design: Implicit Regularization and Sample Complexity

Kaiqing Zhang · Xiangyuan Zhang · Bin Hu · Tamer Basar

In Poster Session 4

[ OpenReview]

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Soft Calibration Objectives for Neural Networks

Archit Karandikar · Nicholas Cain · Dustin Tran · Balaji Lakshminarayanan · Jonathon Shlens · Michael Mozer · Becca Roelofs

In Poster Session 4

[ OpenReview]

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Evaluating Efficient Performance Estimators of Neural Architectures

Xuefei Ning · Changcheng Tang · Wenshuo Li · Zixuan Zhou · Shuang Liang · Huazhong Yang · Yu Wang

In Poster Session 4

[Slides] [ OpenReview]

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On Effective Scheduling of Model-based Reinforcement Learning

Hang Lai · Jian Shen · Weinan Zhang · Yimin Huang · Xing Zhang · Ruiming Tang · Yong Yu · Zhenguo Li

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Reliable and Trustworthy Machine Learning for Health Using Dataset Shift Detection

Chunjong Park · Anas Awadalla · Tadayoshi Kohno · Shwetak Patel

In Poster Session 4

[Slides] [ OpenReview]

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Universal Approximation Using Well-Conditioned Normalizing Flows

Holden Lee · Chirag Pabbaraju · Anish Prasad Sevekari · Andrej Risteski

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For high-dimensional hierarchical models, consider exchangeability of effects across covariates instead of across datasets

Brian Trippe · Hilary Finucane · Tamara Broderick

In Poster Session 4

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Stability & Generalisation of Gradient Descent for Shallow Neural Networks without the Neural Tangent Kernel

Dominic Richards · Ilya Kuzborskij

In Poster Session 4

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A Consciousness-Inspired Planning Agent for Model-Based Reinforcement Learning

Mingde Zhao · Zhen Liu · Sitao Luan · Shuyuan Zhang · Doina Precup · Yoshua Bengio

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A Law of Iterated Logarithm for Multi-Agent Reinforcement Learning

Gugan Chandrashekhar Thoppe · Bhumesh Kumar

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On Empirical Risk Minimization with Dependent and Heavy-Tailed Data

Abhishek Roy · Krishnakumar Balasubramanian · Murat Erdogdu

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Collapsed Variational Bounds for Bayesian Neural Networks

Marcin Tomczak · Siddharth Swaroop · Andrew Foong · Richard Turner

In Poster Session 4

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Active 3D Shape Reconstruction from Vision and Touch

Edward Smith · David Meger · Luis Pineda · Roberto Calandra · Jitendra Malik · Adriana Romero Soriano · Michal Drozdzal

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Sample-Efficient Reinforcement Learning for Linearly-Parameterized MDPs with a Generative Model

Bingyan Wang · Yuling Yan · Jianqing Fan

In Poster Session 4

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Complexity Lower Bounds for Nonconvex-Strongly-Concave Min-Max Optimization

Haochuan Li · Yi Tian · Jingzhao Zhang · Ali Jadbabaie

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Channel Permutations for N:M Sparsity	
Jeff Pool · Chong Yu	In Poster Session 4
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Continuous Doubly Constrained Batch Reinforcement Learning	
Rasool Fakoor · Jonas Mueller · Kavosh Asadi · Pratik Chaudhari · Alexander Smola	In Poster Session 4
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Demystifying and Generalizing BinaryConnect	
Tim Dökhörn · Yaoliang Yu · Eyyüb Sari · Mahdi Zolnouri · Vahid Partovi Nia	In Poster Session 4
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SADGA: Structure-Aware Dual Graph Aggregation Network for Text-to-SQL	
Ruichu Cai · Jinjie Yuan · Boyan Xu · Zhifeng Hao	In Poster Session 4
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Permuton-induced Chinese Restaurant Process	
Masahiro Nakano · Yasuhiro Fujiwara · Akisato Kimura · Takeshi Yamada · naonori ueda	In Poster Session 4
[Slides] [ OpenReview]	
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Sageflow: Robust Federated Learning against Both Stragglers and Adversaries	
Jungwuk Park · Dong-Jun Han · Minseok Choi · Jaekyun Moon	In Poster Session 4
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Batch Multi-Fidelity Bayesian Optimization with Deep Auto-Regressive Networks	
Shibo Li · Robert Kirby · Shandian Zhe	In Poster Session 4
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An Axiomatic Theory of Provably-Fair Welfare-Centric Machine Learning	
Cyrus Cousins	In Poster Session 4
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Implicit Finite-Horizon Approximation and Efficient Optimal Algorithms for Stochastic Shortest Path	
Liyu Chen · Mehdi Jafarnia-Jahromi · Rahul Jain · Haipeng Luo	In Poster Session 4
[ OpenReview]	
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Provably efficient, succinct, and precise explanations	
Guy Blanc · Jane Lange · Li-Yang Tan	In Poster Session 4
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Sample Complexity Bounds for Active Ranking from Multi-wise Comparisons

Wenbo Ren · Jia Liu · Ness Shroff

In Poster Session 4

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Taming Communication and Sample Complexities in Decentralized Policy Evaluation for Cooperative Multi-Agent Reinforcement Learning

Xin Zhang · Zhuqing Liu · Jia Liu · Zhengyuan Zhu · Songtao Lu

In Poster Session 4

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Sample-Efficient Reinforcement Learning Is Feasible for Linearly Realizable MDPs with Limited Revisiting

Gen Li · Yuxin Chen · Yuejie Chi · Yuantao Gu · Yuting Wei

In Poster Session 4

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Representing Long-Range Context for Graph Neural Networks with Global Attention

Zhanghao Wu · Paras Jain · Matthew Wright · Azalia Mirhoseini · Joseph Gonzalez · Ion Stoica

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Program Synthesis Guided Reinforcement Learning for Partially Observed Environments

Yichen Yang · Jeevana Priya Inala · Osbert Bastani · Yewen Pu · Armando Solar-Lezama · Martin Rinard

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Finite Sample Analysis of Average-Reward TD Learning and Q-Learning

Sheng Zhang · Zhe Zhang · Siva Theja Maguluri

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Optimal Sketching for Trace Estimation

Shuli Jiang · Hai Pham · David Woodruff · Richard Zhang

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Leveraging Spatial and Temporal Correlations in Sparsified Mean Estimation

Diyvansh Jhunjhunwala · Ankur Mallick · Advait Gadhikar · Swanand Kadhe · Gauri Joshi

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Sample-Efficient Learning of Stackelberg Equilibria in General-Sum Games

Yu Bai · Chi Jin · Huan Wang · Caiming Xiong

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Neural Symplectic Form: Learning Hamiltonian Equations on General Coordinate Systems

Yuhan Chen · Takashi Matsubara · Takaharu Yaguchi

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Second-Order Neural ODE Optimizer

Guan-Horng Liu · Tianrong Chen · Evangelos Theodorou

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ViTAE: Vision Transformer Advanced by Exploring Intrinsic Inductive Bias

Yufei Xu · Qiming ZHANG · Jing Zhang · Dacheng Tao

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On the Stochastic Stability of Deep Markov Models

Jan Drgona · Sayak Mukherjee · Jiaxin Zhang · Frank Liu · Mahantesh Halappanavar

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Training Feedback Spiking Neural Networks by Implicit Differentiation on the Equilibrium State

Mingqing Xiao · Qingyan Meng · Zongpeng Zhang · Yisen Wang · Zhouchen Lin

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Improving Generalization in Meta-RL with Imaginary Tasks from Latent Dynamics Mixture

Suyoung Lee · Sae-Young Chung

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Open Rule Induction

Wanyun Cui · Xingran Chen

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CHIP: Channel Independence-based Pruning for Compact Neural Networks

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Gauge Equivariant Transformer

Lingshen He · Yiming Dong · Yisen Wang · Dacheng Tao · Zhouchen Lin

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Scaling Neural Tangent Kernels via Sketching and Random Features

Amir Zandieh · Insu Han · Haim Avron · Neta Shoham · Chaewon Kim · Jinwoo Shin

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Maximum Likelihood Training of Score-Based Diffusion Models

Yang Song · Conor Durkan · Iain Murray · Stefano Ermon

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Autobahn: Automorphism-based Graph Neural Nets

Erik Thiede · Wenda Zhou · Risi Kondor

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Provably Faster Algorithms for Bilevel Optimization

Junjie Yang · Kaiyi Ji · Yingbin Liang

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Diversity Enhanced Active Learning with Strictly Proper Scoring Rules

Wei Tan · Lan Du · Wray Buntine

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Graph Neural Networks with Adaptive Residual

Xiaorui Liu · Jiayuan Ding · Wei Jin · Han Xu · Yao Ma · Zitao Liu · Jiliang Tang

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Sub-Linear Memory: How to Make Performers SLiM

Valerii Likhoshesterov · Krzysztof Choromanski · Jared Quincy Davis · Xingyou Song · Adrian Weller

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Formalizing the Generalization-Forgetting Trade-off in Continual Learning

Krishnan Raghavan · Prasanna Balaprakash

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A Max-Min Entropy Framework for Reinforcement Learning

Seungyul Han · Youngchul Sung

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Revisiting Model Stitching to Compare Neural Representations

Yamini Bansal · Preetum Nakkiran · Boaz Barak

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Offline Reinforcement Learning as One Big Sequence Modeling Problem

Michael Janner · Qiyang Li · Sergey Levine

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How Modular should Neural Module Networks Be for Systematic Generalization?

Vanessa D'Amario · Tomotake Sasaki · Xavier Boix

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Adaptable Agent Populations via a Generative Model of Policies

Kenneth Derek · Phillip Isola

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Breaking the Sample Complexity Barrier to Regret-Optimal Model-Free Reinforcement Learning

Gen Li · Laixi Shi · Yuxin Chen · Yuantao Gu · Yuejie Chi

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Manipulating SGD with Data Ordering Attacks

I Shumailov · Zakhar Shumaylov · Dmitry Kazhdan · Yiren Zhao · Nicolas Papernot · Murat Erdogdu · Ross J Anderson

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Nested Counterfactual Identification from Arbitrary Surrogate Experiments

Juan Correa · Sanghack Lee · Elias Bareinboim

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Hyperparameter Tuning is All You Need for LISTA

Xiaohan Chen · Jialin Liu · Zhangyang Wang · Wotao Yin

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Revenue maximization via machine learning with noisy data

Ellen Vitercik · Tom Yan

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Lower and Upper Bounds on the Pseudo-Dimension of Tensor Network Models

Behnoush Khavari · Guillaume Rabusseau

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Estimating High Order Gradients of the Data Distribution by Denoising

Chenlin Meng · Yang Song · Wenzhe Li · Stefano Ermon

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A Surrogate Objective Framework for Prediction+Programming with Soft Constraints

Kai Yan · Jie Yan · Chuan Luo · Liting Chen · Qingwei Lin · Dongmei Zhang

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Adversarial Attack Generation Empowered by Min-Max Optimization

Jingkang Wang · Tianyun Zhang · Sijia Liu · Pin-Yu Chen · Jiacen Xu · Makan Fardad · Bo Li

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Calibrating Predictions to Decisions: A Novel Approach to Multi-Class Calibration

Shengjia Zhao · Michael Kim · Roshni Sahoo · Tengyu Ma · Stefano Ermon

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A Geometric Analysis of Neural Collapse with Unconstrained Features

Zhihui Zhu · Tianyu Ding · Jinxin Zhou · Xiao Li · Chong You · Jeremias Sulam · Qing Qu

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Chasing Sparsity in Vision Transformers: An End-to-End Exploration

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Bridging Offline Reinforcement Learning and Imitation Learning: A Tale of Pessimism

Paria Rashidinejad · Banghua Zhu · Cong Ma · Jiantao Jiao · Stuart Russell

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Blending Anti-Aliasing into Vision Transformer

Shengju Qian · Hao Shao · Yi Zhu · Mu Li · Jiaya Jia

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Spatiotemporal Joint Filter Decomposition in 3D Convolutional Neural Networks

Zichen Miao · Ze Wang · Xiuyuan Cheng · Qiang Qiu

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Neural Regression, Representational Similarity, Model Zoology & Neural Taskonomy at Scale in Rodent Visual Cortex

Colin Conwell · David Mayo · Andrei Barbu · Michael Buice · George Alvarez · Boris Katz

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Dynaboard: An Evaluation-As-A-Service Platform for Holistic Next-Generation Benchmarking

Zhiyi Ma · Kawin Ethayarajh · Tristan Thrush · Somya Jain · Ledell Wu · Robin Jia · Christopher Potts · Adina Williams · Douwe Kiela

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Emergent Discrete Communication in Semantic Spaces

Mycal Tucker · Huao Li · Siddharth Agrawal · Dana Hughes · Katia Sycara · Michael Lewis · Julie A Shah

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Improved Learning Rates of a Functional Lasso-type SVM with Sparse Multi-Kernel Representation

shaogao lv · Junhui Wang · Jiankun Liu · Yong Liu

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Referring Transformer: A One-step Approach to Multi-task Visual Grounding

Muchen Li · Leonid Sigal

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Towards Efficient and Effective Adversarial Training

Gaurang Sriramanan · Sravanti Addepalli · Arya Baburaj · Venkatesh Babu R

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Agnostic Reinforcement Learning with Low-Rank MDPs and Rich Observations

Ayush Sekhari · Christoph Dann · Mehryar Mohri · Yishay Mansour · Karthik Sridharan

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Differentiable Quality Diversity

Matthew Fontaine · Stefanos Nikolaidis

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Does Preprocessing Help Training Over-parameterized Neural Networks?

Zhao Song · Shuo Yang · Ruizhe Zhang

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Towards a Unified Information-Theoretic Framework for Generalization

Mahdi Haghifam · Gintare Karolina Dziugaite · Shay Moran · Dan Roy

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Multi-Step Budgeted Bayesian Optimization with Unknown Evaluation Costs

Raul Astudillo · Daniel Jiang · Maximilian Balandat · Eytan Bakshy · Peter Frazier

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ConE: Cone Embeddings for Multi-Hop Reasoning over Knowledge Graphs

Zhanqi Zhang · Jie Wang · Jiajun Chen · Shuiwang Ji · Feng Wu

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Bayesian Optimization of Function Networks

Raul Astudillo · Peter Frazier

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A Stochastic Newton Algorithm for Distributed Convex Optimization

Brian Bullins · Kshitij Patel · Ohad Shamir · Nathan Srebro · Blake Woodworth

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Breaking the Dilemma of Medical Image-to-image Translation

Lingke Kong · Chenyu Lian · Detian Huang · zhenjiang li · Yanle Hu · Qichao Zhou

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Low-dimensional Structure in the Space of Language Representations is Reflected in Brain Responses

Richard Antonello · Javier Turek · Vy Vo · Alexander Huth

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USCO-Solver: Solving Undetermined Stochastic Combinatorial Optimization Problems

Guangmo Tong

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Learning Dynamic Graph Representation of Brain Connectome with Spatio-Temporal Attention

Byung-Hoon Kim · Jong Chul Ye · Jae-Jin Kim

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Practical, Provably-Correct Interactive Learning in the Realizable Setting: The Power of True Believers

Julian Katz-Samuels · Blake Mason · Kevin Jamieson · Rob Nowak

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Efficient Active Learning for Gaussian Process Classification by Error Reduction

Guang Zhao · Edward Dougherty · Byung-Jun Yoon · Francis Alexander · Xiaoning Qian

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Data-Efficient GAN Training Beyond (Just) Augmentations: A Lottery Ticket Perspective

Tianlong Chen · Yu Cheng · Zhe Gan · Jingjing Liu · Zhangyang Wang

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Gradient Descent on Two-layer Nets: Margin Maximization and Simplicity Bias

Kaifeng Lyu · Zhiyuan Li · Runzhe Wang · Sanjeev Arora

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Class-Disentanglement and Applications in Adversarial Detection and Defense

Kaiwen Yang · Tianyi Zhou · Yonggang Zhang · Xinmei Tian · Dacheng Tao

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Counterbalancing Learning and Strategic Incentives in Allocation Markets

Jamie Kang · Faidra Monachou · Moran Koren · Itai Ashlagi

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Forster Decomposition and Learning Halfspaces with Noise

Ilias Diakonikolas · Daniel Kane · Christos Tzamos

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Focal Attention for Long-Range Interactions in Vision Transformers

Jianwei Yang · Chunyuan Li · Pengchuan Zhang · Xiyang Dai · Bin Xiao · Lu Yuan · Jianfeng Gao

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Pragmatic Image Compression for Human-in-the-Loop Decision-Making

Sid Reddy · Anca Dragan · Sergey Levine

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TNASP: A Transformer-based NAS Predictor with a Self-evolution Framework

Shun Lu · Jixiang Li · Jianchao Tan · Sen Yang · Ji Liu

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On the Second-order Convergence Properties of Random Search Methods

Aurelien Lucchi · Antonio Orvieto · Adamos Solomou

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Three Operator Splitting with Subgradients, Stochastic Gradients, and Adaptive Learning Rates

Alp Yurtsever · Alex Gu · Suvrit Sra

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Greedy Approximation Algorithms for Active Sequential Hypothesis Testing

Kyra Gan · Su Jia · Andrew Li

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Regret Minimization Experience Replay in Off-Policy Reinforcement Learning

Xu-Hui Liu · Zhenghai Xue · Jingcheng Pang · Shengyi Jiang · Feng Xu · Yang Yu

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Evidential Softmax for Sparse Multimodal Distributions in Deep Generative Models

Phil Chen · Mikhal Itkina · Ransalu Senanayake · Mykel J Kochenderfer

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Bayesian Adaptation for Covariate Shift

Aurick Zhou · Sergey Levine

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Skyformer: Remodel Self-Attention with Gaussian Kernel and Nyström Method

Yifan Chen · Qi Zeng · Heng Ji · Yun Yang

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TransMIL: Transformer based Correlated Multiple Instance Learning for Whole Slide Image Classification

Zhuchen Shao · Hao Bian · Yang Chen · Yifeng Wang · Jian Zhang · Xiangyang Ji · yongbing zhang

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Towards Scalable Unpaired Virtual Try-On via Patch-Routed Spatially-Adaptive GAN

Zhenyu Xie · Zaiyu Huang · Fuwei Zhao · Haoye Dong · Michael Kampffmeyer · Xiaodan Liang

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Replacing Rewards with Examples: Example-Based Policy Search via Recursive Classification

Ben Eysenbach · Sergey Levine · Russ Salakhutdinov

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Diffusion Models Beat GANs on Image Synthesis

Prafulla Dhariwal · Alexander Nichol

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SQALER: Scaling Question Answering by Decoupling Multi-Hop and Logical Reasoning

Mattia Atzeni · Jasmina Bogojeska · Andreas Loukas

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Flexible Option Learning

Martin Klissarov · Doina Precup

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Non-Asymptotic Analysis for Two Time-scale TDC with General Smooth Function**Approximation**

Yue Wang · Shaofeng Zou · Yi Zhou

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DeepSITH: Efficient Learning via Decomposition of What and When Across Time Scales

Brandon Jacques · Zoran Tiganj · Marc Howard · Per B Sederberg

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What Makes Multi-Modal Learning Better than Single (Provably)

Yu Huang · Chenzhuang Du · Zihui Xue · Xuanyao Chen · Hang Zhao · Longbo Huang

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Exact marginal prior distributions of finite Bayesian neural networks

Jacob Zavatone-Veth · Cengiz Pehlevan

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Reinforcement Learning in Linear MDPs: Constant Regret and Representation Selection

Matteo Papini · Andrea Tirinzoni · Aldo Pacchiano · Marcello Restelli · Alessandro Lazaric · Matteo Pirotta

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Stability and Deviation Optimal Risk Bounds with Convergence Rate $O(1/n)$

Yegor Klochkov · Nikita Zhivotovskiy

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Class-Incremental Learning via Dual Augmentation

Fei Zhu · Zhen Cheng · Xu-yao Zhang · Cheng-lin Liu

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When Is Generalizable Reinforcement Learning Tractable?

Dhruv Malik · Yuanzhi Li · Pradeep Ravikumar

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Robust Optimization for Multilingual Translation with Imbalanced Data

Xian Li · Hongyu Gong

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Deep Markov Factor Analysis: Towards Concurrent Temporal and Spatial Analysis of fMRI Data

Amirreza Farnoosh · Sarah Ostadabbas

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Online Learning in Periodic Zero-Sum Games

Tanner Fiez · Ryann Sim · Stratis Skoulakis · Georgios Piliouras · Lillian Ratliff

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Topological Detection of Trojaned Neural Networks

Songzhu Zheng · Yikai Zhang · Hubert Wagner · Mayank Goswami · Chao Chen

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MobTCast: Leveraging Auxiliary Trajectory Forecasting for Human Mobility Prediction

Hao Xue · Flora Salim · Yongli Ren · Nuria Oliver

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Exploiting Data Sparsity in Secure Cross-Platform Social Recommendation

Jinming Cui · Chaochao Chen · Lingjuan Lyu · Carl Yang · Wang Li

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The staircase property: How hierarchical structure can guide deep learning

Emmanuel Abbe · Enric Boix-Adsera · Matthew S Brennan · Guy Bresler · Dheeraj Nagaraj

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On the Expected Complexity of Maxout Networks

Hanna Tseran · Guido Montufar

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Proper Value Equivalence

Christopher Grimm · Andre Barreto · Greg Farquhar · David Silver · Satinder Singh

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Coresets for Classification – Simplified and Strengthened

Tung Mai · Cameron Musco · Anup Rao

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Neural Bellman-Ford Networks: A General Graph Neural Network Framework for Link Prediction

Zhaocheng Zhu · Zuobai Zhang · Louis-Pascal Xhonneux · Jian Tang

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Learning with Holographic Reduced Representations

Ashwinkumar Ganesan · Hang Gao · Sunil Gandhi · Edward Raff · Tim Oates · James Holt · Mark McLean

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Gradient-based Editing of Memory Examples for Online Task-free Continual Learning

Xisen Jin · Arka Sadhu · Junyi Du · Xiang Ren

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Lifelong Domain Adaptation via Consolidated Internal Distribution

Mohammad Rostami

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Reward-Free Model-Based Reinforcement Learning with Linear Function Approximation

Weitong ZHANG · Dongruo Zhou · Quanquan Gu

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Federated Split Task-Agnostic Vision Transformer for COVID-19 CXR Diagnosis

Sangjoon Park · Gwanghyun Kim · Jeongsol Kim · Boah Kim · Jong Chul Ye

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Particle Dual Averaging: Optimization of Mean Field Neural Network with Global Convergence Rate Analysis

Atsushi Nitanda · Denny Wu · Taiji Suzuki

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Local plasticity rules can learn deep representations using self-supervised contrastive predictions

Bernd Illing · Jean Ventura · Guillaume Bellec · Wulfram Gerstner

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The Limitations of Large Width in Neural Networks: A Deep Gaussian Process Perspective

Geoff Pleiss · John Cunningham

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MoBILe: Model-Based Imitation Learning From Observation Alone

Rahul Kidambi · Jonathan Chang · Wen Sun

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ResNEsts and DenseNEsts: Block-based DNN Models with Improved Representation Guarantees

Kuan-Lin Chen · Ching-Hua Lee · Harinath Garudadri · Bhaskar D Rao

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Tensor decompositions of higher-order correlations by nonlinear Hebbian plasticity

Gabriel Ocker · Michael Buice

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Neural Active Learning with Performance Guarantees

[Slides] [ OpenReview]

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A generative nonparametric Bayesian model for whole genomes

Alan Amin · Eli N Weinstein · Debora Marks

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CO-PILOT: Collaborative Planning and reinforcement Learning On sub-Task curriculum

Shuang Ao · Tianyi Zhou · Guodong Long · Qinghua Lu · Liming Zhu · Jing Jiang

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Teaching an Active Learner with Contrastive Examples

Chaoqi Wang · Adish Singla · Yuxin Chen

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FL-WBC: Enhancing Robustness against Model Poisoning Attacks in Federated Learning from a Client Perspective

Jingwei Sun · Ang Li · Louis DiValentin · Amin Hassanzadeh · Yiran Chen · Hai Li

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Learning Distilled Collaboration Graph for Multi-Agent Perception

Yiming Li · Shunli Ren · Pengxiang Wu · Siheng Chen · Chen Feng · Wenjun Zhang

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Fast Federated Learning in the Presence of Arbitrary Device Unavailability

Xinran Gu · Kaixuan Huang · Jingzhao Zhang · Longbo Huang

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Emergent Communication under Varying Sizes and Connectivities

Jooyeon Kim · Alice Oh

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Diverse Message Passing for Attribute with Heterophily

Liang Yang · Mengzhe Li · Liyang Liu · bingxin niu · Chuan Wang · Xiaochun Cao · Yuanfang Guo

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Uncertain Decisions Facilitate Better Preference Learning

Cassidy Laidlaw · Stuart Russell

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NAS-Bench-x11 and the Power of Learning Curves

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How does a Neural Network's Architecture Impact its Robustness to Noisy Labels?

Jingling Li · Mozhi Zhang · Keyulu Xu · John Dickerson · Jimmy Ba

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Efficient constrained sampling via the mirror-Langevin algorithm

Kwangjun Ahn · Sinho Chewi

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Ultrahyperbolic Neural Networks

Marc Law

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Preconditioned Gradient Descent for Over-Parameterized Nonconvex Matrix Factorization

Jialun Zhang · Salar Fattahi · Richard Y Zhang

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Stochastic Anderson Mixing for Nonconvex Stochastic Optimization

Fuchao Wei · Chenglong Bao · Yang Liu

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Reducing the Covariate Shift by Mirror Samples in Cross Domain Alignment

Yin Zhao · minquan wang · Longjun Cai

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Efficient and Local Parallel Random Walks

Michael Kapralov · Silvio Lattanzi · Navid Nouri · Jakab Tardos

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The Implicit Bias of Minima Stability: A View from Function Space

Rotem Mulayoff · Tomer Michaeli · Daniel Soudry

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Uncertainty Calibration for Ensemble-Based Debiasing Methods

Ruixin Xiong · Yimeng Chen · Liang Pang · Xueqi Cheng · Zhi-Ming Ma · Yanyan Lan

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Sparse Spiking Gradient Descent

Nicolas Perez-Nieves · Dan Goodman

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BooVI: Provably Efficient Bootstrapped Value Iteration

Boyi Liu · Qi Cai · Zhuoran Yang · Zhaoran Wang

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Towards Understanding Why Lookahead Generalizes Better Than SGD and Beyond

Pan Zhou · Hanshu Yan · Xiaotong Yuan · Jiashi Feng · Shuicheng Yan

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Stochastic bandits with groups of similar arms.

Fabien Pesquerel · Hassan SABER · Odalric-Ambrym Maillard

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PlayVirtual: Augmenting Cycle-Consistent Virtual Trajectories for Reinforcement Learning

Tao Yu · Cuiling Lan · Wenjun Zeng · Mingxiao Feng · Zhizheng Zhang · Zhibo Chen

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Gradient Inversion with Generative Image Prior

Jinwoo Jeon · jaechang Kim · Kangwook Lee · Sewoong Oh · Jungseul Ok

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CLDA: Contrastive Learning for Semi-Supervised Domain Adaptation

Ankit Singh

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Making the most of your day: online learning for optimal allocation of time

Etienne Boursier · Tristan Garrec · Vianney Perchet · Marco Scarsini

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Analyzing the Generalization Capability of SGLD Using Properties of Gaussian Channels

Hao Wang · Yizhe Huang · Rui Gao · Flavio Calmon

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Rethinking the Variational Interpretation of Accelerated Optimization Methods

Peiyuan Zhang · Antonio Orvieto · Hadi Daneshmand

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Active Assessment of Prediction Services as Accuracy Surface Over Attribute Combinations

Vihari Piratla · Soumen Chakrabarti · Sunita Sarawagi

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Dynamic Resolution Network

Mingjian Zhu · Kai Han · Enhua Wu · Qiulin Zhang · Ying Nie · Zhenzhong Lan · Yunhe Wang

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The Complexity of Sparse Tensor PCA

Davin Choo · Tommaso d'Orsi

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Diversity Matters When Learning From Ensembles

Giung Nam · Jongmin Yoon · Yoonho Lee · Juho Lee

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Learning to Learn Graph Topologies

Xingyue Pu · Tianyue Cao · Xiaoyun Zhang · Xiaowen Dong · Siheng Chen

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Latent Matters: Learning Deep State-Space Models

Alexej Klushyn · Richard Kurle · Maximilian Soelch · Botond Cseke · Patrick van der Smagt

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Rethinking gradient sparsification as total error minimization

Atal Sahu · Aritra Dutta · Ahmed M. Abdelmoniem · Trambak Banerjee · Marco Canini · Panos Kalnis

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Stochastic Shortest Path: Minimax, Parameter-Free and Towards Horizon-Free Regret

Jean Tarbouriech · Runlong Zhou · Simon Du · Matteo Pirotta · Michal Valko · Alessandro Lazaric

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Cycle Self-Training for Domain Adaptation

Hong Liu · Jianmin Wang · Mingsheng Long

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IRM—when it works and when it doesn't: A test case of natural language inference

Yana Dranker · He He · Yonatan Belinkov

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Model-Based Reinforcement Learning via Imagination with Derived MemoryYao Mu · Yuzheng Zhuang · Bin Wang · Guangxiang Zhu · Wulong Liu · Jianyu Chen · Ping Luo · Shengbo Li · In Poster Session 5
Chongjie Zhang · Jianye Hao

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Width-based Lookaheads with Learnt Base Policies and Heuristics Over the Atari-2600 Benchmark

Stefan O'Toole · Nir Lipovetzky · Miquel Ramirez · Adrian Pearce

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On the Estimation Bias in Double Q-Learning

Zhizhou Ren · Guangxiang Zhu · Hao Hu · Beining Han · Jianglun Chen · Chongjie Zhang

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Towards Gradient-based Bilevel Optimization with Non-convex Followers and Beyond

Risheng Liu · Yaohua Liu · Shangzhi Zeng · Jin Zhang

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Low-Fidelity Video Encoder Optimization for Temporal Action Localization

Mengmeng Xu · Juan Manuel Perez Rua · Xiatian Zhu · Bernard Ghanem · Brais Martinez

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Robustifying Algorithms of Learning Latent Trees with Vector Variables

Fengzhuo Zhang · Vincent Tan

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Adder Attention for Vision Transformer

Han Shu · Jiahao Wang · Hanting Chen · Lin Li · Yujiu Yang · Yunhe Wang

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Global-aware Beam Search for Neural Abstractive Summarization

Ye Ma · Zixun Lan · Lu Zong · Kaizhu Huang

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NEO: Non Equilibrium Sampling on the Orbits of a Deterministic Transform

Achille Thin · Yazid Janati El Idrissi · Sylvain Le Corff · Charles Ollion · Eric Moulines · Arnaud Doucet · Alain Durmus · Christian X Robert

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Few-Round Learning for Federated Learning

Younghyun Park · Dong-Jun Han · Do-Yeon Kim · Jun Seo · Jaekyun Moon

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Learning interaction rules from multi-animal trajectories via augmented behavioral models

Keisuke Fujii · Naoya Takeishi · Kazushi Tsutsui · Emyo Fujioka · Nozomi Nishiumi · Ryoya Tanaka · Mika Fukushiro · Kaoru Ide · Hiroyoshi Kohno · Ken Yoda · Susumu Takahashi · Shizuko Hiryu · Yoshinobu Kawahara

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RMIX: Learning Risk-Sensitive Policies for Cooperative Reinforcement Learning Agents

Wei Qiu · Xinrun Wang · Runsheng Yu · Rundong Wang · Xu He · Bo An · Svetlana Obraztsova · Zinovi Rabinovich

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Fast Routing under Uncertainty: Adaptive Learning in Congestion Games via Exponential Weights

Dong Quan Vu · Kimon Antonakopoulos · Panayotis Mertikopoulos

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Iterative Causal Discovery in the Possible Presence of Latent Confounders and Selection Bias

Raanan Rohekar · Shami Nisimov · Yaniv Gurwicz · Gal Novik

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ScaleCert: Scalable Certified Defense against Adversarial Patches with Sparse Superficial Layers

Husheng Han · Kaidi Xu · Xing Hu · Xiaobing Chen · Ling LIANG · Zidong Du · Qi Guo · Yanzhi Wang · Yunji Chen

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On the Provable Generalization of Recurrent Neural Networks

Lifu Wang · Bo Shen · Bo Hu · Xing Cao

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Instance-optimal Mean Estimation Under Differential Privacy

Ziyue Huang · Yuting Liang · Ke Yi

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What can linearized neural networks actually say about generalization?

Guillermo Ortiz-Jimenez · Seyed-Mohsen Moosavi-Dezfooli · Pascal Frossard

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Constrained Optimization to Train Neural Networks on Critical and Under-Represented Classes

Sara Sangalli · Ertunc Erdil · Andeas Hötker · Olivio Donati · Ender Konukoglu

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Deep Conditional Gaussian Mixture Model for Constrained Clustering

Laura Manduchi · Kieran Chin-Cheong · Holger Michel · Sven Wellmann · Julia Vogt

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It Has Potential: Gradient-Driven Denoisers for Convergent Solutions to Inverse Problems

Regev Cohen · Yochai Blau · Daniel Freedman · Ehud Rivlin

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Towards Open-World Feature Extrapolation: An Inductive Graph Learning Approach

Qitian Wu · Chenxiao Yang · Junchi Yan

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Learning to Combine Per-Example Solutions for Neural Program Synthesis

Disha Shrivastava · Hugo Larochelle · Daniel Tarlow

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Precise characterization of the prior predictive distribution of deep ReLU networks

Lorenzo Noci · Gregor Bachmann · Kevin Roth · Sebastian Nowozin · Thomas Hofmann

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Repulsive Deep Ensembles are Bayesian

Francesco D'Angelo · Vincent Fortuin

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Learning Stable Deep Dynamics Models for Partially Observed or Delayed Dynamical Systems

Andreas Schlaginhaufen · Philippe Wenk · Andreas Krause · Florian Dorfler

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Spectrum-to-Kernel Translation for Accurate Blind Image Super-Resolution

Guangpin Tao · Xiaozhong Ji · Wenzhuo Wang · Shuo Chen · Chuming Lin · Yun Cao · Tong Lu · Donghao Luo · In Poster Session 5
Ying Tai

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How Tight Can PAC-Bayes be in the Small Data Regime?

Andrew Foong · Wessel Bruinsma · David Burt · Richard Turner

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Knowledge-Adaptation Priors

Mohammad Emtiyaz Khan · Siddharth Swaroop

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Kernel Functional Optimisation

Arun Kumar Anjanapura Venkatesh · Alistair Shilton · Santu Rana · Sunil Gupta · Svetha Venkatesh

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Manifold Topology Divergence: a Framework for Comparing Data Manifolds.

Serguei Barannikov · Ilya Trofimov · Grigorii Sotnikov · Ekaterina Trimbach · Alexander Korotin · Alexander Filippov · Evgeny Burnaev

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Transformers Generalize DeepSets and Can be Extended to Graphs & Hypergraphs

Jinwoo Kim · Saeyoon Oh · Seunghoon Hong

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Visual Search Asymmetry: Deep Nets and Humans Share Similar Inherent Biases

Shashi Kant Gupta · Mengmi Zhang · CHIA-CHIEN WU · Jeremy Wolfe · Gabriel Kreiman

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Effective Meta-Regularization by Kernelized Proximal Regularization

Weisen Jiang · James Kwok · Yu Zhang

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ROI Maximization in Stochastic Online Decision-Making

Nicolò Cesa-Bianchi · Tom Cesari · Yishay Mansour · Vianney Perchet

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Anti-Backdoor Learning: Training Clean Models on Poisoned Data

Yige Li · Xixiang Lyu · Nodens Koren · Lingjuan Lyu · Bo Li · Xingjun Ma

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Not All Low-Pass Filters are Robust in Graph Convolutional Networks

Heng Chang · Yu Rong · Tingyang Xu · Yatao Bian · Shiji Zhou · Xin Wang · Junzhou Huang · Wenwu Zhu

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A Probabilistic State Space Model for Joint Inference from Differential Equations and Data

Jonathan Schmidt · Nicholas Krämer · Philipp Hennig

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Fast Tucker Rank Reduction for Non-Negative Tensors Using Mean-Field Approximation

Kazu Ghalamkari · Mahito Sugiyama

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Self-Supervised Learning of Event-Based Optical Flow with Spiking Neural Networks

Jesse Hagaenaars · Federico Paredes-Valles · Guido de Croon

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Stochastic Multi-Armed Bandits with Control Variates

Arun Verma · Manjesh Kumar Hanawal

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Efficient Learning of Discrete-Continuous Computation Graphs

David Friede · Mathias Niepert

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Doubly Robust Thompson Sampling with Linear Payoffs

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Integrated Latent Heterogeneity and Invariance Learning in Kernel Space

Jiashuo Liu · Zheyuan Hu · Peng Cui · Bo Li · Zheyuan Shen

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Stylized Dialogue Generation with Multi-Pass Dual Learning

Jinpeng Li · Yingce Xia · Rui Yan · Hongda Sun · Dongyan Zhao · Tie-Yan Liu

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Continuous Mean-Covariance Bandits

Yihan Du · Siwei Wang · Zhixuan Fang · Longbo Huang

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A Provably Efficient Sample Collection Strategy for Reinforcement Learning

Jean Tarbouriech · Matteo Pirotta · Michal Valko · Alessandro Lazaric

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Time-independent Generalization Bounds for SGLD in Non-convex Settings

Tyler Farghly · Patrick Rebeschini

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No Fear of Heterogeneity: Classifier Calibration for Federated Learning with Non-IID Data

Mi Luo · Fei Chen · Dapeng Hu · Yifan Zhang · Jian Liang · Jiashi Feng

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Self-Supervised Learning Disentangled Group Representation as Feature	
Tan Wang · Zhongqi Yue · Jianqiang Huang · Qianru Sun · Hanwang Zhang	In Poster Session 5
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Re-ranking for image retrieval and transductive few-shot classification	
Xi SHEN · Yang Xiao · Shell Xu Hu · Othman Sbai · Mathieu Aubry	In Poster Session 5
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Tolga Birdal · Aaron Lou · Leonidas Guibas · Umut Simsekli	In Poster Session 5
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Task-Adaptive Neural Network Search with Meta-Contrastive Learning	
Wonyong Jeong · Hayeon Lee · Geon Park · Eunyoung Hyung · Jinheon Baek · Sung Ju Hwang	In Poster Session 5
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Chebyshev-Cantelli PAC-Bayes-Bennett Inequality for the Weighted Majority Vote	
Yi-Shan Wu · Andres Masegosa · Stephan Lorenzen · Christian Igel · Yevgeny Seldin	In Poster Session 5
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A Note on Sparse Generalized Eigenvalue Problem	
Yunfeng Cai · Guanhua Fang · Ping Li	In Poster Session 5
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Compositional Reinforcement Learning from Logical Specifications Kishor Jothimurugan · Suguman Bansal · Osbert Bastani · Rajeev Alur [ OpenReview]	In Poster Session 5
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Adaptive Data Augmentation on Temporal Graphs Yiwei Wang · Yujun Cai · Yuxuan Liang · Henghui Ding · Changhu Wang · Siddharth Bhatia · Bryan Hooi [ OpenReview]	In Poster Session 5
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Scalable Quasi-Bayesian Inference for Instrumental Variable Regression Ziyu Wang · Yuhao Zhou · Tongzheng Ren · Jun Zhu [Slides] [ OpenReview]	In Poster Session 5
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On learning sparse vectors from mixture of responses Nikita Polyanskiy [ OpenReview]	In Poster Session 5
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Bridging the Gap Between Practice and PAC-Bayes Theory in Few-Shot Meta-Learning Nan Ding · Xi Chen · Tomer Levinboim · Sebastian Goodman · Radu Soricut [Slides] [ OpenReview]	In Poster Session 5
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A Constant Approximation Algorithm for Sequential Random-Order No-Substitution k-Median Clustering Tom Hess · Michal Moshkovitz · Sivan Sabato [ OpenReview]	In Poster Session 5
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Multi-Label Learning with Pairwise Relevance Ordering Ming-Kun Xie · Sheng-Jun Huang [ OpenReview]	In Poster Session 5
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Well-tuned Simple Nets Excel on Tabular Datasets Arlind Kadra · Marius Lindauer · Frank Hutter · Josif Grabocka [ OpenReview]	In Poster Session 5
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Distributional Reinforcement Learning for Multi-Dimensional Reward Functions Pushi Zhang · Xiaoyu Chen · Li Zhao · Wei Xiong · Tao Qin · Tie-Yan Liu [ OpenReview]	In Poster Session 5
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Combinatorial Pure Exploration with Bottleneck Reward Function Yihan Du · Yuko Kuroki · Wei Chen [ OpenReview]	In Poster Session 5

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Bandits with many optimal arms

Rianne de Heide · James Cheshire · Pierre Ménard · Alexandra Carpentier

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Offline Constrained Multi-Objective Reinforcement Learning via Pessimistic Dual Value Iteration

Runzhe Wu · Yufeng Zhang · Zhuoran Yang · Zhaoran Wang

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CorticalFlow: A Diffeomorphic Mesh Transformer Network for Cortical Surface Reconstruction

Leo Lebrat · Rodrigo Santa Cruz · Frederic de Gournay · Darren Fu · Pierrick Bourgeat · Jurgen Fripp · Clinton Fookes · Olivier Salvado

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Conformal Time-series Forecasting

Kamile Stankeviciute · Ahmed M. Alaa · Mihaela van der Schaar

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Poster

Spherical Motion Dynamics: Learning Dynamics of Normalized Neural Network using SGD and Weight Decay

Ruosong Wan · Zhanxing Zhu · Xiangyu Zhang · Jian Sun

In Poster Session 5

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Tactical Optimism and Pessimism for Deep Reinforcement Learning

Ted Moskovitz · Jack Parker-Holder · Aldo Pacchiano · Michael Arbel · Michael Jordan

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Poster

Model, sample, and epoch-wise descents: exact solution of gradient flow in the random feature model

Antoine Bodin · Nicolas Macris

In Poster Session 5

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Poster

Causal Bandits with Unknown Graph Structure

Yangyi Lu · Amirhossein Meisami · Ambuj Tewari

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Unlabeled Principal Component Analysis

Yunzhen Yao · Liangzu Peng · Manolis Tsakiris

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Boost Neural Networks by Checkpoints

Feng Wang · Guoyizhe Wei · Qiao Liu · Jinxiang Ou · xian wei · Hairong Lv

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Poster

Differentially Private Multi-Armed Bandits in the Shuffle Model

Jay Tenenbaum · Haim Kaplan · Yishay Mansour · Uri Stemmer

In Poster Session 5

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Poster

Wasserstein Flow Meets Replicator Dynamics: A Mean-Field Analysis of Representation Learning in Actor-Critic

Yufeng Zhang · Siyu Chen · Zhuoran Yang · Michael Jordan · Zhaoran Wang

In Poster Session 5

[ OpenReview]

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Poster

EF21: A New, Simpler, Theoretically Better, and Practically Faster Error Feedback

Peter Richtarik · Igor Sokolov · Ilyas Fatkhullin

In Poster Session 5

[ OpenReview]

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PSD Representations for Effective Probability Models

Alessandro Rudi · Carlo Ciliberto

In Poster Session 5

[ OpenReview]

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Variational Continual Bayesian Meta-Learning

Qiang Zhang · Jinyuan Fang · Zaiqiao Meng · Shangsong Liang · Emine Yilmaz

In Poster Session 5

[ OpenReview]

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Towards Calibrated Model for Long-Tailed Visual Recognition from Prior Perspective

Zhengzhuo Xu · Zenghao Chai · Chun Yuan

In Poster Session 5

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Poster

Graph Posterior Network: Bayesian Predictive Uncertainty for Node Classification

Maximilian Stadler · Bertrand Charpentier · Simon Geisler · Daniel Zügner · Stephan Günnemann

In Poster Session 5

[ OpenReview]

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Sim and Real: Better Together

Shirli Di-Castro · Dotan Di Castro · Shie Mannor

In Poster Session 5

[ OpenReview]

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Poster

Independent mechanism analysis, a new concept?

Luigi Gresele · Julius von Kügelgen · Vincent Stimper · Bernhard Schölkopf · Michel Besserve

In Poster Session 5

[ OpenReview]

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Conformal Prediction using Conditional Histograms

Matteo Sesia · Yaniv Romano

In Poster Session 5

[ OpenReview]

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Poster

See More for Scene: Pairwise Consistency Learning for Scene Classification

Gongwei Chen · Xinhang Song · Bohan Wang · Shuqiang Jiang

In Poster Session 5

[Slides] [ OpenReview]

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Poster

CATs: Cost Aggregation Transformers for Visual Correspondence

Seokju Cho · Sunghwan Hong · Sangryul Jeon · Yunsung Lee · Kwanghoon Sohn · Seungryong Kim

In Poster Session 5

[ OpenReview]

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Trustworthy Multimodal Regression with Mixture of Normal-inverse Gamma Distributions

Huan Ma · Zongbo Han · Changqing Zhang · Huazhu Fu · Joey Tianyi Zhou · Qinghua Hu

In Poster Session 5

[ OpenReview]

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Refined Learning Bounds for Kernel and Approximate k -Means

Yong Liu

In Poster Session 5

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Poster

ToAlign: Task-Oriented Alignment for Unsupervised Domain Adaptation

Guoqiang Wei · Cuiling Lan · Wenjun Zeng · Zhizheng Zhang · Zhibo Chen

In Poster Session 5

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Batched Thompson Sampling

Cem Kalkanli · Ayfer Ozgur

In Poster Session 5

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Poster

Generalization Guarantee of SGD for Pairwise Learning

Yunwen Lei · Mingrui Liu · Yiming Ying

In Poster Session 5

[ OpenReview]

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Decentralized Q-learning in Zero-sum Markov Games

Muhammed Sayin · Kaiqing Zhang · David Leslie · Tamer Basar · Asuman Ozdaglar

In Poster Session 5

[ OpenReview]

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Learning Barrier Certificates: Towards Safe Reinforcement Learning with Zero Training-time Violations

Yuping Luo · Tengyu Ma

In Poster Session 5

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Necessary and sufficient graphical conditions for optimal adjustment sets in causal graphical models with hidden variables

Jakob Runge

In Poster Session 5

[Slides] [ OpenReview]

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Poster

SWAD: Domain Generalization by Seeking Flat Minima

Junbum Cha · Sanghyuk Chun · Kyungjae Lee · Han-Cheol Cho · Seunghyun Park · Yunsung Lee · Sungrae Park

In Poster Session 5

[ OpenReview]

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Poster

Rethinking Calibration of Deep Neural Networks: Do Not Be Afraid of Overconfidence

Deng-Bao Wang · Lei Feng · Min-Ling Zhang

In Poster Session 5

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Activation Sharing with Asymmetric Paths Solves Weight Transport Problem without Bidirectional Connection

Sunghyeon Woo · Jeongwoo Park · Jiwoo Hong · Dongsuk Jeon

In Poster Session 5

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ImageBART: Bidirectional Context with Multinomial Diffusion for Autoregressive Image Synthesis

Patrick Esser · Robin Rombach · Andreas Blattmann · Bjorn Ommer

In Poster Session 5

[Slides] [ OpenReview]

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Poster

From Canonical Correlation Analysis to Self-supervised Graph Neural Networks

Hengrui Zhang · Qitian Wu · Junchi Yan · David Wipf · Philip S Yu

In Poster Session 5

[Slides] [ OpenReview]

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Poster

Deep Bandits Show-Off: Simple and Efficient Exploration with Deep Networks

Rong Zhu · Mattia Rigotti

In Poster Session 5

[ OpenReview]

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Poster

Optimizing Information-theoretical Generalization Bound via Anisotropic Noise of SGLD

Bohan Wang · Huishuai Zhang · Jieyu Zhang · Qi Meng · Wei Chen · Tie-Yan Liu

In Poster Session 5

[ OpenReview]

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Poster

SSAL: Synergizing between Self-Training and Adversarial Learning for Domain Adaptive Object Detection

Muhammad Akhtar Munir · Muhammad Haris Khan · M. Sarfraz · Mohsen Ali

In Poster Session 5

[ OpenReview]

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Poster

Spatial Ensemble: a Novel Model Smoothing Mechanism for Student-Teacher Framework

Tengteng Huang · Yifan Sun · Xun Wang · Haotian Yao · Chi Zhang

In Poster Session 5

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Near-Optimal Multi-Perturbation Experimental Design for Causal Structure Learning

Scott Sussex · Caroline Uhler · Andreas Krause

In Poster Session 5

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Poster

Lip to Speech Synthesis with Visual Context Attentional GAN

Minsu Kim · Joanna Hong · Yong Man Ro

In Poster Session 5

[ OpenReview]

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Poster

Variational Multi-Task Learning with Gumbel-Softmax Priors

Jiayi Shen · Xiantong Zhen · Marcel Worring · Ling Shao

In Poster Session 5

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Poster

Learning a Single Neuron with Bias Using Gradient Descent

Gal Vardi · Gilad Yehudai · Ohad Shamir

In Poster Session 5

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Understanding Bandits with Graph Feedback

Houshuang Chen · zengfeng Huang · Shuai Li · Chihao Zhang

In Poster Session 5

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Understanding Partial Multi-Label Learning via Mutual Information

Xiuwen Gong · Dong Yuan · Wei Bao

In Poster Session 5

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Intermediate Layers Matter in Momentum Contrastive Self Supervised Learning

Akash Kaku · Sahana Upadhyia · Narges Razavian

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Universal Off-Policy Evaluation

Yash Chandak · Scott Niekum · Bruno da Silva · Erik Learned-Miller · Emma Brunskill · Philip Thomas

In Poster Session 5

[ Slides] [ OpenReview]

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Poster

The Complexity of Bayesian Network Learning: Revisiting the Superstructure

Robert Ganian · Viktoria Korchemna

In Poster Session 5

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An Even More Optimal Stochastic Optimization Algorithm: Minibatching and Interpolation Learning

Blake Woodworth · Nathan Srebro

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PartialFed: Cross-Domain Personalized Federated Learning via Partial Initialization

Benyuan Sun · Hongxing Huo · YI YANG · Bo Bai

In Poster Session 5

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E(n) Equivariant Normalizing Flows

Victor Garcia Satorras · Emiel Hoogeboom · Fabian Fuchs · Ingmar Posner · Max Welling

In Poster Session 5

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Parameter-free HE-friendly Logistic Regression

Junyoung Byun · Woojin Lee · Jaewook Lee

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[ OpenReview]

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Agent Modelling under Partial Observability for Deep Reinforcement Learning

Georgios Papoudakis · Filippos Christianos · Stefano Albrecht

In Poster Session 5

[ OpenReview]

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History Aware Multimodal Transformer for Vision-and-Language Navigation

Shizhe Chen · Pierre-Louis Guhur · Cordelia Schmid · Ivan Laptev

In Poster Session 5

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BernNet: Learning Arbitrary Graph Spectral Filters via Bernstein Approximation

Mingguo He · Zhewei Wei · zengfeng Huang · Hongteng Xu

In Poster Session 5

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Coresets for Time Series Clustering

Lingxiao Huang · K Sudhir · Nisheeth Vishnoi

In Poster Session 5

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There Is No Turning Back: A Self-Supervised Approach for Reversibility-Aware Reinforcement Learning

Nathan Grinsztajn · Johan Ferret · Olivier Pietquin · philippe preux · Matthieu Geist

In Poster Session 5

[ OpenReview]

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Poster

Reinforced Few-Shot Acquisition Function Learning for Bayesian Optimization

Bing-Jing Hsieh · Ping-Chun Hsieh · Xi Liu

In Poster Session 5

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Improved Variance-Aware Confidence Sets for Linear Bandits and Linear Mixture MDP

Zihan Zhang · Jiaqi Yang · Xiangyang Ji · Simon Du

In Poster Session 5

[ OpenReview]

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Scalable Bayesian GPFA with automatic relevance determination and discrete noise models

Kristopher Jensen · Ta-Chu Kao · Jasmine Stone · Guillaume Hennequin

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CANITA: Faster Rates for Distributed Convex Optimization with Communication Compression

Zhize Li · Peter Richtarik

In Poster Session 5

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Beyond the Signs: Nonparametric Tensor Completion via Sign Series

Chanwoo Lee · Miaoyan Wang

In Poster Session 5

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Poster

Artistic Style Transfer with Internal-external Learning and Contrastive Learning

Haibo Chen · lei zhao · Zhizhong Wang · Huiming Zhang · Zhiwen Zuo · Ailin Li · Wei Xing · Dongming Lu

In Poster Session 5

[ OpenReview]

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Proportional Participatory Budgeting with Additive Utilities

Grzegorz Pierczyński · Piotr Skowron · Dominik Peters

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Do Different Tracking Tasks Require Different Appearance Models?

Zhongdao Wang · Hengshuang Zhao · Ya-Li Li · Shengjin Wang · Philip Torr · Luca Bertinetto

In Poster Session 5

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Poster

The Adaptive Doubly Robust Estimator and a Paradox Concerning Logging Policy

Masahiro Kato · Kenichiro McAlinn · Shota Yasui

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Self-Paced Contrastive Learning for Semi-supervised Medical Image Segmentation with Meta-labels

Jizong Peng · Ping Wang · Christian Desrosiers · Marco Pedersoli

In Poster Session 5

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Graphical Models in Heavy-Tailed Markets

[Slides] [ OpenReview]

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Disentangled Contrastive Learning on Graphs

Haoyang Li · Xin Wang · Ziwei Zhang · Zehuan Yuan · Hang Li · Wenwu Zhu

In Poster Session 5

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LLC: Accurate, Multi-purpose Learnt Low-dimensional Binary Codes

Aditya Kusupati · Matthew Wallingford · Vivek Ramanujan · Raghav Somani · Jae Sung Park · Krishna Pillutla · In Poster Session 5
Prateek Jain · Sham Kakade · Ali Farhadi

[Slides] [ OpenReview]

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Poster

KS-GNN: Keywords Search over Incomplete Graphs via Graphs Neural Network

YU HAO · Xin Cao · Yufan Sheng · Yixiang Fang · Wei Wang

In Poster Session 5

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Error Compensated Distributed SGD Can Be Accelerated

Xun Qian · Peter Richtarik · Tong Zhang

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STORM+: Fully Adaptive SGD with Recursive Momentum for Nonconvex Optimization

Kfir Levy · Ali Kavis · Volkan Cevher

In Poster Session 5

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PortaSpeech: Portable and High-Quality Generative Text-to-Speech

Yi Ren · Jinglin Liu · Zhou Zhao

In Poster Session 5

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Poster

Redesigning the Transformer Architecture with Insights from Multi-particle Dynamical Systems

Subhabrata Dutta · Tanya Gautam · Soumen Chakrabarti · Tanmoy Chakraborty

In Poster Session 5

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Poster

Entropy-based adaptive Hamiltonian Monte Carlo

Marcel Hirt · Michalis Titsias · Petros Dellaportas

In Poster Session 5

[ OpenReview]

Thu Dec 09 12:30 AM -- 02:00 AM (PST)

Poster

Hypergraph Propagation and Community Selection for Objects Retrieval

Guoyuan An · Yuchi Huo · Sung-eui Yoon

In Poster Session 5

[ OpenReview]

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Poster

MixSeq: Connecting Macroscopic Time Series Forecasting with Microscopic Time Series

Data

Zhibo Zhu · Ziqi Liu · Ge Jin · Zhiqiang Zhang · Lei Chen · Jun Zhou · Jianyong Zhou

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Co-evolution Transformer for Protein Contact Prediction

He Zhang · Fusong Ju · Jianwei Zhu · Liang He · Bin Shao · Nanning Zheng · Tie-Yan Liu

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[Slides] [ OpenReview]

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Denoising Normalizing Flow

Christian Horvat · Jean-Pascal Pfister

In Poster Session 5

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Poster

Information Directed Reward Learning for Reinforcement Learning

David Lindner · Matteo Turchetta · Sebastian Tschiatschek · Kamil Ciosek · Andreas Krause

In Poster Session 5

[ OpenReview]

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Poster

Cross-modal Domain Adaptation for Cost-Efficient Visual Reinforcement Learning

Xiong-Hui Chen · Shengyi Jiang · Feng Xu · Zongzhang Zhang · Yang Yu

In Poster Session 5

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Poster

Uncertainty-Driven Loss for Single Image Super-Resolution

Qian Ning · Weisheng Dong · Xin Li · Jinjian Wu · GUANGMING Shi

In Poster Session 5

[Slides] [ OpenReview]

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Poster

An Analysis of Constant Step Size SGD in the Non-convex Regime: Asymptotic Normality and Bias

Lu Yu · Krishnakumar Balasubramanian · Stanislav Volgushev · Murat Erdogdu

In Poster Session 5

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Generalizable Multi-linear Attention Network

Tao Jin · Zhou Zhao

In Poster Session 5

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Faster Non-asymptotic Convergence for Double Q-learning

Lin Zhao · Huaqing Xiong · Yingbin Liang

In Poster Session 5

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Poster

Deep Proxy Causal Learning and its Application to Confounded Bandit Policy Evaluation

Liyuan Xu · Heishiro Kanagawa · Arthur Gretton

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Poster

Partition-Based Formulations for Mixed-Integer Optimization of Trained ReLU Neural Networks

Calvin Tsay · Jan Kronqvist · Alexander Thebelt · Ruth Misener

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[ OpenReview]

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Learning Equivariant Energy Based Models with Equivariant Stein Variational Gradient Descent

Priyank Jaini · Lars Holdijk · Max Welling

In Poster Session 5

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Poster

Twins: Revisiting the Design of Spatial Attention in Vision Transformers

Xiangxiang Chu · Zhi Tian · Yuqing Wang · Bo Zhang · Haibing Ren · Xiaolin Wei · Huaxia Xia · Chunhua Shen In Poster Session 5

[ OpenReview]

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Associating Objects with Transformers for Video Object Segmentation

Zongxin Yang · Yunchao Wei · Yi Yang

In Poster Session 5

[ OpenReview]

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Poster

Overlapping Spaces for Compact Graph Representations

Kirill Shevkunov · Liudmila Prokhorenkova

In Poster Session 5

[Slides] [ OpenReview]

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Poster

Semialgebraic Representation of Monotone Deep Equilibrium Models and Applications to Certification

Tong Chen · Jean Lasserre · Victor Magron · Edouard Pauwels

In Poster Session 5

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Poster

Learning Interpretable Decision Rule Sets: A Submodular Optimization Approach

Fan Yang · Kai He · Linxiao Yang · Hongxia Du · Jingbang Yang · Bo Yang · Liang Sun

In Poster Session 5

[Slides] [ OpenReview]

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Poster

Revisit Multimodal Meta-Learning through the Lens of Multi-Task Learning

Milad Abdollahzadeh · Touba Malekzadeh · Ngai-Man (Man) Cheung

In Poster Session 5

[Slides] [ OpenReview]

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Landmark-Guided Subgoal Generation in Hierarchical Reinforcement Learning

Junsu Kim · Younggyo Seo · Jinwoo Shin

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[ OpenReview]

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Poster

MIRACLE: Causally-Aware Imputation via Learning Missing Data Mechanisms

[ OpenReview]

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Poster

What's a good imputation to predict with missing values?

Marine Le Morvan · Julie Josse · Erwan Scornet · Gael Varoquaux

In Poster Session 5

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Poster

GRIN: Generative Relation and Intention Network for Multi-agent Trajectory Prediction

Longyuan Li · Jian Yao · Li Wenliang · Tong He · Tianjun Xiao · Junchi Yan · David Wipf · Zheng Zhang

In Poster Session 5

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Subgoal Search For Complex Reasoning Tasks

Konrad Czechowski · Tomasz Odrzygóźdż · Marek Zbysiński · Michał Zawalski · Krzysztof Olejnik · Yuhuai Wu · In Poster Session 5

Łukasz Kuciński · Piotr Miłoś

[ OpenReview]

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On the Convergence of Prior-Guided Zeroth-Order Optimization Algorithms

Shuyu Cheng · Guoqiang Wu · Jun Zhu

In Poster Session 5

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POODLE: Improving Few-shot Learning via Penalizing Out-of-Distribution Samples

Duong Le · Khoi Duc Nguyen · Khoi Nguyen · Quoc-Huy Tran · Rang Nguyen · Binh-Son Hua

In Poster Session 5

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Oracle Complexity in Nonsmooth Nonconvex Optimization

Guy Kornowski · Ohad Shamir

In Poster Session 5

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Mosaicking to Distill: Knowledge Distillation from Out-of-Domain Data

Gongfan Fang · Yifan Bao · Jie Song · Xinchao Wang · Donglin Xie · Chengchao Shen · Mingli Song

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Integrating Tree Path in Transformer for Code Representation

Han Peng · Ge Li · Wenhan Wang · YunFei Zhao · Zhi Jin

In Poster Session 5

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Overcoming Catastrophic Forgetting in Incremental Few-Shot Learning by Finding Flat Minima

Guangyuan SHI · JIAXIN CHEN · Wenlong Zhang · Li-Ming Zhan · Xiao-Ming Wu

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Towards Sample-Optimal Compressive Phase Retrieval with Sparse and Generative Priors

Zhaoqiang Liu · Subhroshekhar Ghosh · Jonathan Scarlett

In Poster Session 5

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Poster

Trash or Treasure? An Interactive Dual-Stream Strategy for Single Image Reflection Separation

Qiming Hu · Xiaojie Guo

In Poster Session 5

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Counterexample Guided RL Policy Refinement Using Bayesian Optimization

Briti Gangopadhyay · Pallab Dasgupta

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One Loss for All: Deep Hashing with a Single Cosine Similarity based Learning Objective

Jiun Tian Hoe · Kam Woh Ng · Tianyu Zhang · Chee Seng Chan · Yi-Zhe Song · Tao Xiang

In Poster Session 5

[Slides] [ OpenReview]

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Subquadratic Overparameterization for Shallow Neural Networks

ChaeHwan Song · Ali Ramezani-Kebrya · Thomas Pethick · Armin Eftekhari · Volkan Cevher

In Poster Session 5

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Habitat 2.0: Training Home Assistants to Rearrange their Habitat

Andrew Szot · Alexander Clegg · Eric Undersander · Erik Wijmans · Yili Zhao · John Turner · Noah Maestre · In Poster Session 5

Mustafa Mukadam · Devendra Singh Chaplot · Oleksandr Maksymets · Aaron Gokaslan · Vladimír Vondruš · Sameer Dharur ·

Franziska Meier · Wojciech Galuba · Angel Chang · Zsolt Kira · Vladlen Koltun · Jitendra Malik · Manolis Savva · Dhruv Batra

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Structure-Aware Random Fourier Kernel for Graphs

Jinyuan Fang · Qiang Zhang · Zaiqiao Meng · Shangsong Liang

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DropGNN: Random Dropouts Increase the Expressiveness of Graph Neural Networks

Pál András Papp · Karolis Martinkus · Lukas Faber · Roger Wattenhofer

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Asynchronous Decentralized SGD with Quantized and Local Updates

Giorgi Nadiradze · Amirrejiba Sabour · Peter Davies · Shigang Li · Dan Alistarh

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Nearly Minimax Optimal Reinforcement Learning for Discounted MDPs

jiafan he · Dongruo Zhou · Quanquan Gu

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Meta-Learning for Relative Density-Ratio Estimation Atsutoshi Kumagai · Tomoharu Iwata · Yasuhiro Fujiwara [ OpenReview]	In Poster Session 5
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Breaking the Moments Condition Barrier: No-Regret Algorithm for Bandits with Super Heavy-Tailed Payoffs Han Zhong · Jiayi Huang · Lin Yang · Liwei Wang [ OpenReview]	In Poster Session 5
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Adversarial Reweighting for Partial Domain Adaptation Xiang Gu · Xi Yu · yan yang · Jian Sun · Zongben Xu [Slides] [ OpenReview]	In Poster Session 5
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Rectifying the Shortcut Learning of Background for Few-Shot Learning Xu Luo · Longhui Wei · Liangjian Wen · Jinrong Yang · Lingxi Xie · Zenglin Xu · Qi Tian [ OpenReview]	In Poster Session 5
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Variational Automatic Curriculum Learning for Sparse-Reward Cooperative Multi-Agent Problems Jiayu Chen · Yuanxin Zhang · Yuanfan Xu · Huimin Ma · Huazhong Yang · Jiaming Song · Yu Wang · Yi Wu [Slides] [ OpenReview]	In Poster Session 5
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Deep Contextual Video Compression Jiahao Li · Bin Li · Yan Lu [Slides] [ OpenReview]	In Poster Session 5
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Learning Theory Can (Sometimes) Explain Generalisation in Graph Neural Networks Pascal Esser · Leena Chennuru Vankadara · Debarghya Ghoshdastidar [ OpenReview]	In Poster Session 5
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Hardware-adaptive Efficient Latency Prediction for NAS via Meta-Learning Hayeon Lee · Sewoong Lee · Song Chong · Sung Ju Hwang [ OpenReview]	In Poster Session 5
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HSVA: Hierarchical Semantic-Visual Adaptation for Zero-Shot Learning Shiming Chen · Guosen Xie · Yang Liu · Qinmu Peng · Baigui Sun · Hao Li · Xinge You · Ling Shao [ OpenReview]	In Poster Session 5
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Dual Progressive Prototype Network for Generalized Zero-Shot Learning Chaoqun Wang · Shaobo Min · Xuejin Chen · Xiaoyan Sun · Houqiang Li [ OpenReview]	In Poster Session 5

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Identification of the Generalized Condorcet Winner in Multi-dueling Bandits

Björn Haddenhorst · Viktor Bengs · Eyke Hüllermeier

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Post-Training Sparsity-Aware Quantization

Gil Shomron · Freddy Gabbay · Samer Kurzum · Uri Weiser

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Curriculum Disentangled Recommendation with Noisy Multi-feedback

Hong Chen · Yudong Chen · Xin Wang · Ruobing Xie · Rui Wang · Feng Xia · Wenwu Zhu

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Addressing Algorithmic Disparity and Performance Inconsistency in Federated Learning

Sen Cui · Weishen Pan · Jian Liang · Changshui Zhang · Fei Wang

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Powerpropagation: A sparsity inducing weight reparameterisation

Jonathan Schwarz · Siddhant Jayakumar · Razvan Pascanu · Peter E Latham · Yee Teh

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Discerning Decision-Making Process of Deep Neural Networks with Hierarchical Voting Transformation

Ying Sun · Hengshu Zhu · Chuan Qin · Fuzhen Zhuang · Qing He · Hui Xiong

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Gradient Driven Rewards to Guarantee Fairness in Collaborative Machine Learning

Xinyi Xu · Lingjuan Lyu · Xingjun Ma · Chenglin Miao · Chuan Sheng Foo · Bryan Kian Hsiang Low

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IA-RED²: Interpretability-Aware Redundancy Reduction for Vision Transformers

Bowen Pan · Rameswar Panda · Yifan Jiang · Zhangyang Wang · Rogerio Feris · Aude Oliva

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Model Selection for Bayesian Autoencoders

Ba-Hien Tran · Simone Rossi · Dimitrios Milios · Pietro Michiardi · Edwin Bonilla · Maurizio Filippone

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Numerical Composition of Differential Privacy

Sivakanth Gopi · Yin Tat Lee · Lukas Wutschitz

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Efficient Combination of Rematerialization and Offloading for Training DNNs

Olivier Beaumont · Lionel Eyraud-Dubois · Alena Shilova

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Robust Generalization despite Distribution Shift via Minimum Discriminating Information

Tobias Sutter · Andreas Krause · Daniel Kuhn

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Learning curves of generic features maps for realistic datasets with a teacher-student model

Bruno Loureiro · Cedric Gerbelot · Hugo Cui · Sebastian Goldt · Florent Krzakala · Marc Mezard · Lenka Zdeborová

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Auto-Encoding Knowledge Graph for Unsupervised Medical Report Generation

Fenglin Liu · Chenyu You · Xian Wu · Shen Ge · Sheng wang · Xu Sun

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Asynchronous Decentralized Online Learning

Jiyan Jiang · Wenpeng Zhang · Jinjie GU · Wenwu Zhu

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INDIGO: GNN-Based Inductive Knowledge Graph Completion Using Pair-Wise Encoding

Shuwen Liu · Bernardo Grau · Ian Horrocks · Egor Kostylev

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Low-Rank Subspaces in GANs

Jiapeng Zhu · Ruili Feng · Yujun Shen · Deli Zhao · Zheng-Jun Zha · Jingren Zhou · Qifeng Chen

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iFlow: Numerically Invertible Flows for Efficient Lossless Compression via a Uniform Coder

Shifeng Zhang · Ning Kang · Tom Ryder · Zhenguo Li

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Causal Identification with Matrix Equations

Sanghack Lee · Elias Bareinboim

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Network-to-Network Regularization: Enforcing Occam's Razor to Improve Generalization

Rohan Ghosh · Mehul Motani

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Automatic Data Augmentation for Generalization in Reinforcement Learning

Roberta Raileanu · Maxwell Goldstein · Denis Yarats · Ilya Kostrikov · Rob Fergus

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Preserved central model for faster bidirectional compression in distributed settings

Constantin Philippenko · Aymeric Dieuleveut

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DRONE: Data-aware Low-rank Compression for Large NLP Models

Patrick Chen · Hsiang-Fu Yu · Inderjit Dhillon · Cho-Jui Hsieh

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Neural Rule-Execution Tracking Machine For Transformer-Based Text Generation

Yufei Wang · Can Xu · Huang Hu · Chongyang Tao · Stephen Wan · Mark Dras · Mark Johnson · Daxin Jiang In Poster Session 5

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Variational Bayesian Optimistic Sampling

Brendan O'Donoghue · Tor Lattimore

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Modular Gaussian Processes for Transfer Learning

Pablo Moreno-Muñoz · Antonio Artes · Mauricio Álvarez

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Identifiability in inverse reinforcement learning

Haoyang Cao · Samuel Cohen · Lukasz Szpruch

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TransMatcher: Deep Image Matching Through Transformers for Generalizable Person Re-identification

Shengcai Liao · Ling Shao

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Going Beyond Linear RL: Sample Efficient Neural Function Approximation

Baihe Huang · Kaixuan Huang · Sham Kakade · Jason Lee · Qi Lei · Runzhe Wang · Jiaqi Yang

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Interventional Sum-Product Networks: Causal Inference with Tractable Probabilistic Models

Matej Zečević · Devendra Dhami · Athresh Karanam · Sriraam Natarajan · Kristian Kersting

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Meta Internal Learning

Raphael Bensadoun · Shir Gur · Tomer Galanti · Lior Wolf

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Non-convex Distributionally Robust Optimization: Non-asymptotic Analysis

Jikai Jin · Bohang Zhang · Haiyang Wang · Liwei Wang

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Faster Algorithms and Constant Lower Bounds for the Worst-Case Expected Error

Jonah Brown-Cohen

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Beyond BatchNorm: Towards a Unified Understanding of Normalization in Deep Learning

Ekdeep S Lubana · Robert Dick · Hidenori Tanaka

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A^2 -Net: Learning Attribute-Aware Hash Codes for Large-Scale Fine-Grained Image

Retrieval

Xiu-Shen Wei · Yang Shen · Xuhao Sun · Han-Jia Ye · Jian Yang

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Catalytic Role Of Noise And Necessity Of Inductive Biases In The Emergence Of Compositional Communication

Lukasz Kuciński · Tomasz Korbak · Paweł Kołodziej · Piotr Miłoś

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A Gradient Method for Multilevel Optimization

Ryo Sato · Mirai Tanaka · Akiko Takeda

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Recurrence along Depth: Deep Convolutional Neural Networks with Recurrent Layer Aggregation

Jingyu Zhao · Yanwen Fang · Guodong Li

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Graph Differentiable Architecture Search with Structure Learning

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A Bayesian-Symbolic Approach to Reasoning and Learning in Intuitive Physics

Kai Xu · Akash Srivastava · Dan Gutfreund · Felix Sosa · Tomer Ullman · Josh Tenenbaum · Charles Sutton In Poster Session 5

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Beyond Smoothness: Incorporating Low-Rank Analysis into Nonparametric Density Estimation

Robert Vandermeulen · Antoine Ledent

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Solving Soft Clustering Ensemble via k -Sparse Discrete Wasserstein Barycenter

Ruizhe Qin · Mengying Li · Hu Ding

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Personalized Federated Learning With Gaussian Processes

Idan Achituv · Aviv Shamsian · Aviv Navon · Gal Chechik · Ethan Fetaya

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Brick-by-Brick: Combinatorial Construction with Deep Reinforcement Learning

Hyunsoo Chung · Jungtaek Kim · Boris Knyazev · Jinhwi Lee · Graham Taylor · Jaesik Park · Minsu Cho In Poster Session 5

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Global Convergence of Online Optimization for Nonlinear Model Predictive Control

Sen Na

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De-randomizing MCMC dynamics with the diffusion Stein operator

Zheyang Shen · Markus Heinonen · Samuel Kaski

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Adversarial Neuron Pruning Purifies Backdoored Deep Models

Dongxian Wu · Yisen Wang

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Attention over Learned Object Embeddings Enables Complex Visual Reasoning

David Ding · Felix Hill · Adam Santoro · Malcolm Reynolds · Matt Botvinick

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Dense Keypoints via Multiview Supervision

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Sampling with Trustworthy Constraints: A Variational Gradient Framework

Xingchao Liu · Xin Tong · Qiang Liu

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Framing RNN as a kernel method: A neural ODE approach

Adeline Fermanian · Pierre Marion · Jean-Philippe Vert · Gérard Biau

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Adaptive Conformal Inference Under Distribution Shift

Isaac Gibbs · Emmanuel Candes

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Roto-translated Local Coordinate Frames For Interacting Dynamical Systems

Miltiadis Kofinas · Naveen Nagaraja · Efstratios Gavves

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Oracle-Efficient Regret Minimization in Factored MDPs with Unknown Structure

Aviv Rosenberg · Yishay Mansour

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Implicit Generative Copulas

Tim Janke · Mohamed Ghanmi · Florian Steinke

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Local Hyper-Flow Diffusion

Kimon Fountoulakis · Pan Li · Shenghao Yang

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Differentially Private Empirical Risk Minimization under the Fairness Lens

Cuong Tran · My Dinh · Ferdinando Fioretto

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Towards Multi-Grained Explainability for Graph Neural Networks

Xiang Wang · Yingxin Wu · An Zhang · Xiangnan He · Tat-Seng Chua

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Accelerated Sparse Neural Training: A Provable and Efficient Method to Find N:M Transposable Masks

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Heavy Ball Momentum for Conditional Gradient

Bingcong Li · Alireza Sadeghi · Georgios Giannakis

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Individual Privacy Accounting via a Rényi Filter

Vitaly Feldman · Tijana Zrnic

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Adaptive Ensemble Q-learning: Minimizing Estimation Bias via Error Feedback

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Multi-Scale Representation Learning on Proteins

Vignesh Ram Somnath · Charlotte Bunne · Andreas Krause

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Fair Algorithms for Multi-Agent Multi-Armed Bandits

Safwan Hossain · Evi Micha · Nisarg Shah

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Differential Privacy Dynamics of Langevin Diffusion and Noisy Gradient Descent

Rishav Chourasia · Jiayuan Ye · Reza Shokri

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Learning with User-Level Privacy

Daniel Levy · Ziteng Sun · Kareem Amin · Satyen Kale · Alex Kulesza · Mehryar Mohri · Ananda Theertha Suresh

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Best-case lower bounds in online learning

Cristóbal Guzmán · Nishant Mehta · Ali Mortazavi

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Towards Best-of-All-Worlds Online Learning with Feedback Graphs

Liad Erez · Tomer Koren

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Local Disentanglement in Variational Auto-Encoders Using Jacobian L_1 Regularization

Travers Rhodes · Daniel Lee

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A Near-Optimal Algorithm for Debiasing Trained Machine Learning Models

Ibrahim Alabdulmohsin · Mario Lucic

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Faster proximal algorithms for matrix optimization using Jacobi-based eigenvalue methods

Hamza Fawzi · Harry Goulbourne

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Neural Tangent Kernel Maximum Mean Discrepancy

Xiuyuan Cheng · Yao Xie

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Exploiting Opponents Under Utility Constraints in Sequential Games

Martino Bernasconi-de-Luca · Federico Cacciamani · Simone Fioravanti · Nicola Gatti · Alberto Marchesi ·

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Francesco Trovò

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G-PATE: Scalable Differentially Private Data Generator via Private Aggregation of Teacher Discriminators

Yunhui Long · Boxin Wang · Zhuolin Yang · Bhavya Kailkhura · Aston Zhang · Carl Gunter · Bo Li

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Learning Markov State Abstractions for Deep Reinforcement Learning

Cameron Allen · Neev Parikh · Omer Gottesman · George Konidaris

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Risk-Averse Bayes-Adaptive Reinforcement Learning

Marc Rigter · Bruno Lacerda · Nick Hawes

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Margin-Independent Online Multiclass Learning via Convex Geometry

Guru Guruganesh · Allen Liu · Jon Schneider · Joshua Wang

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Streaming Linear System Identification with Reverse Experience Replay

Suhas Kowshik · Dheeraj Nagaraj · Prateek Jain · Praneeth Netrapalli

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Topological Attention for Time Series Forecasting

Sebastian Zeng · Florian Graf · Christoph Hofer · Roland Kwitt

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LEADS: Learning Dynamical Systems that Generalize Across Environments

Yuan Yin · Ibrahim Ayed · Emmanuel de Bézenac · Nicolas Baskiotis · Patrick Gallinari

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Support vector machines and linear regression coincide with very high-dimensional features

Navid Ardestir · Clayton Sanford · Daniel Hsu

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OpenMatch: Open-Set Semi-supervised Learning with Open-set Consistency

Regularization

Kuniaki Saito · Donghyun Kim · Kate Saenko

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Conformal Bayesian Computation

Edwin Fong · Chris C Holmes

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Mixability made efficient: Fast online multiclass logistic regression

Rémi Jézéquel · Pierre Gaillard · Alessandro Rudi

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Estimating the Long-Term Effects of Novel Treatments

Keith Battocchi · Eleanor Dillon · Maggie Hei · Greg Lewis · Miruna Oprescu · Vasilis Syrgkanis

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Equilibrium Refinement for the Age of Machines: The One-Sided Quasi-Perfect

Equilibrium

Gabriele Farina · Tuomas Sandholm

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Mixture Proportion Estimation and PU Learning:A Modern Approach

Saurabh Garg · Yifan Wu · Alexander Smola · Sivaraman Balakrishnan · Zachary Lipton

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Data driven semi-supervised learning

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Learning Gaussian Mixtures with Generalized Linear Models: Precise Asymptotics in High-dimensions

Bruno Loureiro · Gabriele Sicuro · Cedric Gerbelot · Alessandro Pacco · Florent Krzakala · Lenka Zdeborová

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ATISS: Autoregressive Transformers for Indoor Scene Synthesis

Despoina Paschalidou · Amlan Kar · Maria Shugrina · Karsten Kreis · Andreas Geiger · Sanja Fidler

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Stochastic L^\natural -convex Function Minimization

Haixiang Zhang · Zeyu Zheng · Javad Lavaei

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Exact Privacy Guarantees for Markov Chain Implementations of the Exponential Mechanism with Artificial Atoms

Jeremy Seeman · Matthew Reimherr · Aleksandra Slavković

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Mitigating Covariate Shift in Imitation Learning via Offline Data With Partial Coverage

Jonathan Chang · Masatoshi Uehara · Dhruv Sreenivas · Rahul Kidambi · Wen Sun

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Landscape analysis of an improved power method for tensor decomposition

Joe Kileel · Timo Klock · João M Pereira

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Explicit loss asymptotics in the gradient descent training of neural networks

Maksim Velikanov · Dmitry Yarotsky

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NxMTransformer: Semi-Structured Sparsification for Natural Language Understanding via ADMM

Connor Holmes · Minjia Zhang · Yuxiong He · Bo Wu

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Decrypting Cryptic Crosswords: Semantically Complex Wordplay Puzzles as a Target for NLP

Josh Rozner · Christopher Potts · Kyle Mahowald

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Exploring Social Posterior Collapse in Variational Autoencoder for Interaction Modeling

Chen Tang · Wei Zhan · Masayoshi Tomizuka

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Evaluation of Human-AI Teams for Learned and Rule-Based Agents in Hanabi

Ho Chit Siu · Jaime Peña · Edenna Chen · Yutai Zhou · Victor Lopez · Kyle Palko · Kimberlee Chang · Ross Allen

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Learning to Generate Visual Questions with Noisy Supervision

Shen Kai · Lingfei Wu · Siliang Tang · Yueling Zhuang · zhen he · Zhuoye Ding · Yun Xiao · Bo Long

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Logarithmic Regret from Sublinear Hints

Aditya Bhaskara · Ashok Cutkosky · Ravi Kumar · Manish Purohit

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Joint Inference for Neural Network Depth and Dropout Regularization

Kishan K C · Rui Li · MohammadMahdi Gilany

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Test-time Collective Prediction

Celestine Mendler-Dünner · Wenshuo Guo · Stephen Bates · Michael Jordan

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Container: Context Aggregation Networks

peng gao · Jiasen Lu · hongsheng Li · Roozbeh Mottaghi · Aniruddha Kembhavi

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Good Classification Measures and How to Find Them

Martijn Gösgens · Anton Zhiyanov · Aleksey Tikhonov · Liudmila Prokhorenkova

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Breaking the centralized barrier for cross-device federated learning

Sai Praneeth Karimireddy · Martin Jaggi · Satyen Kale · Mehryar Mohri · Sashank Reddi · Sebastian Stich ·

In Poster Session 6

Ananda Theertha Suresh

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Efficient Training of Retrieval Models using Negative Cache

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Differentiable Multiple Shooting Layers

Stefano Massaroli · Michael Poli · Sho Sonoda · Taiji Suzuki · Jinkyoo Park · Atsushi Yamashita · Hajime Asama In Poster Session 6

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Deep Explicit Duration Switching Models for Time Series

Abdul Fatir Ansari · Konstantinos Benidis · Richard Kurle · Ali Caner Turkmen · Harold Soh · Alexander Smola · In Poster Session 6

Bernie Wang · Tim Januschowski

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Differentiable Unsupervised Feature Selection based on a Gated Laplacian

Ofir Lindenbaum · Uri Shaham · Erez Peterfreund · Jonathan Svirsky · Nicolas Casey · Yuval Kluger In Poster Session 6

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Explaining heterogeneity in medial entorhinal cortex with task-driven neural networks

Aran Nayebi · Alexander Attinger · Malcolm Campbell · Kiah Hardcastle · Isabel Low · Caitlin S Mallory · Gabriel In Poster Session 6

Mel · Ben Sorscher · Alex H Williams · Surya Ganguli · Lisa Giocomo · Dan Yamins

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Online Knapsack with Frequency Predictions

Sungjin Im · Ravi Kumar · Mahshid Montazer Qaem · Manish Purohit

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Robust and Decomposable Average Precision for Image Retrieval

Elias Ramzi · Nicolas THOME · Clément Rambour · Nicolas Audebert · Xavier Bitot

In Poster Session 6

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Assessing Fairness in the Presence of Missing Data

Yiliang Zhang · Qi Long

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Compositional Transformers for Scene Generation

Dor Arad Hudson · Larry Zitnick

In Poster Session 6

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Grammar-Based Grounded Lexicon Learning

Jiayuan Mao · Freda Shi · Jiajun Wu · Roger Levy · Josh Tenenbaum

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Online Control of Unknown Time-Varying Dynamical Systems

Edgar Minasyan · Paula Gradu · Max Simchowitz · Elad Hazan

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Deep Networks Provably Classify Data on Curves

Tingran Wang · Sam Buchanan · Dar Gilboa · John Wright

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Nonuniform Negative Sampling and Log Odds Correction with Rare Events Data

HaiYing Wang · Aonan Zhang · Chong Wang

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Towards robust vision by multi-task learning on monkey visual cortex

Shahd Safarani · Arne Nix · Konstantin Willeke · Santiago Cadena · Kelli Restivo · George Denfield · Andreas Tolias · Fabian Sinz

In Poster Session 6

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Look at the Variance! Efficient Black-box Explanations with Sobol-based Sensitivity Analysis

Thomas FEL · Remi Cadene · Mathieu Chalvidal · Matthieu Cord · David Vigouroux · Thomas Serre

In Poster Session 6

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Stochastic Bias-Reduced Gradient Methods

Hilal Asi · Yair Carmon · Arun Jambulapati · Yujia Jin · Aaron Sidford

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Adaptive Machine Unlearning

Varun Gupta · Christopher Jung · Seth Neel · Aaron Roth · Saeed Sharifi-Malvajerdi · Chris Waites

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Recurrent Bayesian Classifier Chains for Exact Multi-Label Classification

Walter Gerych · Tom Hartvigsen · Luke Buquicchio · Emmanuel Agu · Elke A. Rundensteiner

In Poster Session 6

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Detecting and Adapting to Irregular Distribution Shifts in Bayesian Online Learning

Aodong Li · Alex Boyd · Padhraic Smyth · Stephan Mandt

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[ Slides] [ OpenReview]

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Beyond Bandit Feedback in Online Multiclass Classification

Dirk van der Hoeven · Federico Fusco · Nicolò Cesa-Bianchi

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Stabilizing Deep Q-Learning with ConvNets and Vision Transformers under Data Augmentation
Nicklas Hansen · Hao Su · Xiaolong Wang In Poster Session 6
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Fair Clustering Under a Bounded Cost
Seyed Esmaeili · Brian Brubach · Aravind Srinivasan · John Dickerson In Poster Session 6
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Reverse engineering recurrent neural networks with Jacobian switching linear dynamical systems
Jimmy Smith · Scott Linderman · David Sussillo In Poster Session 6
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A Gang of Adversarial Bandits
Mark Herbster · Stephen Pasteris · Fabio Vitale · Massimiliano Pontil In Poster Session 6
[ OpenReview]
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Continual Auxiliary Task Learning
Matthew McLeod · Chunlok Lo · Matthew Schlegel · Andrew Jacobsen · Raksha Kumaraswamy · Martha White · In Poster Session 6
Adam White
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Parameter Inference with Bifurcation Diagrams
Gregory Szep · Neil Dalchau · Attila Csikász-Nagy In Poster Session 6
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A/B Testing for Recommender Systems in a Two-sided Marketplace
Preetam Nandy · Divya Venugopalan · Chun Lo · Shaunak Chatterjee In Poster Session 6
[Slides] [ OpenReview]
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(Implicit)²: Implicit Layers for Implicit Representations
Zhichun Huang · Shaojie Bai · J. Zico Kolter In Poster Session 6
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Neural Algorithmic Reasoners are Implicit Planners
Andreea-Ioana Deac · Petar Veličković · Ognjen Milinkovic · Pierre-Luc Bacon · Jian Tang · Mladen Nikolic In Poster Session 6
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When in Doubt: Neural Non-Parametric Uncertainty Quantification for Epidemic Forecasting

Harshavardhan Kamarthi · Lingkai Kong · Alexander Rodriguez · Chao Zhang · B. Aditya Prakash

In Poster Session 6

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Overcoming the curse of dimensionality with Laplacian regularization in semi-supervised learning

Vivien Cabannes · Loucas Pillaud-Vivien · Francis Bach · Alessandro Rudi

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Differentially Private Stochastic Optimization: New Results in Convex and Non-Convex Settings

Raef Bassily · Cristóbal Guzmán · Michael Menart

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Fast Approximate Dynamic Programming for Infinite-Horizon Markov Decision Processes

Mohamad Amin Sharifi Kolarijani · Gyula Max · Peyman Mohajerin Esfahani

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Reliable Decisions with Threshold Calibration

Roshni Sahoo · Shengjia Zhao · Alyssa Chen · Stefano Ermon

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Analytic Insights into Structure and Rank of Neural Network Hessian Maps

Sidak Pal Singh · Gregor Bachmann · Thomas Hofmann

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(Almost) Free Incentivized Exploration from Decentralized Learning Agents

Chengshuai Shi · Haifeng Xu · Wei Xiong · Cong Shen

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MERLOT: Multimodal Neural Script Knowledge Models

Rowan Zellers · Ximing Lu · Jack Hessel · Youngjae Yu · Jae Sung Park · Jize Cao · Ali Farhadi · Yejin Choi

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Twice regularized MDPs and the equivalence between robustness and regularization

Esther Derman · Matthieu Geist · Shie Mannor

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Instance-Conditioned GAN

Arantxa Casanova · Marlène Careil · Jakob Verbeek · Michal Drozdzal · Adriana Romero Soriano

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Pay Better Attention to Attention: Head Selection in Multilingual and Multi-Domain Sequence Modeling

Hongyu Gong · Yun Tang · Juan Pino · Xian Li

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TokenLearner: Adaptive Space-Time Tokenization for Videos

Michael Ryoo · AJ Piergiovanni · Anurag Arnab · Mostafa Dehghani · Anelia Angelova

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Littlestone Classes are Privately Online Learnable

Noah Golowich · Roi Livni

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On Large-Cohort Training for Federated Learning

Zachary Charles · Zachary Garrett · Zhouyuan Huo · Sergei Shmulyan · Virginia Smith

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Renyi Differential Privacy of The Subsampled Shuffle Model In Distributed Learning

Antonious Grgis · Deepesh Data · Suhas Diggavi

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Near-Optimal No-Regret Learning in General Games

Constantinos Daskalakis · Maxwell Fishelson · Noah Golowich

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Scalars are universal: Equivariant machine learning, structured like classical physics

Soledad Villar · David W Hogg · Kate Storey-Fisher · Weichi Yao · Ben Blum-Smith

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Fast and Memory Efficient Differentially Private-SGD via JL Projections

Zhiqi Bu · Sivakanth Gopi · Janardhan Kulkarni · Yin Tat Lee · Hanwen Shen · Uthaipon Tantipongpipat

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Disrupting Deep Uncertainty Estimation Without Harming Accuracy

Ido Galil · Ran El-Yaniv

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Least Square Calibration for Peer Reviews

Sijun Tan · Jibang Wu · Xiaohui Bei · Haifeng Xu

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Distributed Saddle-Point Problems Under Data Similarity

Aleksandr Beznosikov · Gesualdo Scutari · Alexander Rogozin · Alexander Gasnikov

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Periodic Activation Functions Induce Stationarity

Lassi Meronen · Martin Trapp · Arno Solin

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On the Sample Complexity of Learning under Geometric Stability

Alberto Bietti · Luca Venturi · Joan Bruna

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Revisiting Contrastive Methods for Unsupervised Learning of Visual Representations

Wouter Van Gansbeke · Simon Vandenhende · Stamatios Georgoulis · Luc V Gool

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Learning-Augmented Dynamic Power Management with Multiple States via New Ski Rental Bounds

Antonios Antoniadis · Christian Coester · Marek Elias · Adam Polak · Bertrand Simon

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SubTab: Subsetting Features of Tabular Data for Self-Supervised Representation Learning

Talip Ucar · Ehsan Hajiramezanali · Lindsay Edwards

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Learning in Non-Cooperative Configurable Markov Decision Processes

Giorgia Ramponi · Alberto Maria Metelli · Alessandro Concetti · Marcello Restelli

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NeuroMLR: Robust & Reliable Route Recommendation on Road Networks

Jayant Jain · Vrittika Bagadia · Sahil Manchanda · Sayan Ranu

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Unsupervised Motion Representation Learning with Capsule Autoencoders

Ziwei Xu · Xudong Shen · Yongkang Wong · Mohan Kankanhalli

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Neural Distance Embeddings for Biological Sequences

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User-Level Differentially Private Learning via Correlated Sampling

Badih Ghazi · Ravi Kumar · Pasin Manurangsi

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Privately Publishable Per-instance Privacy

Rachel Redberg · Yu-Xiang Wang

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Slow Learning and Fast Inference: Efficient Graph Similarity Computation via Knowledge Distillation

Can Qin · Handong Zhao · Lichen Wang · Huan Wang · Yulun Zhang · Yun Fu

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Collaborating with Humans without Human Data

DJ Strouse · Kevin McKee · Matt Botvinick · Edward Hughes · Richard Everett

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Label Disentanglement in Partition-based Extreme Multilabel Classification

Xuanqing Liu · Wei-Cheng Chang · Hsiang-Fu Yu · Cho-Jui Hsieh · Inderjit Dhillon

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Deep Learning with Label Differential Privacy

Badih Ghazi · Noah Golowich · Ravi Kumar · Pasin Manurangsi · Chiyuan Zhang

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Drop-DTW: Aligning Common Signal Between Sequences While Dropping Outliers

Mikita Dvornik · Isma Hadji · Konstantinos Derpanis · Animesh Garg · Allan Jepson

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Settling the Variance of Multi-Agent Policy GradientsJakub Grudzien Kuba · Muning Wen · Linghui Meng · shangding gu · Haifeng Zhang · David Mguni · Jun Wang · In Poster Session 6
Yaodong Yang[\[Slides \]](#) [\[OpenReview \]](#)

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Shared Independent Component Analysis for Multi-Subject Neuroimaging

Hugo Richard · Pierre Ablin · Bertrand Thirion · Alexandre Gramfort · Aapo Hyvärinen

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Hyperbolic Busemann Learning with Ideal Prototypes

Mina Ghadimi Atigh · Martin Keller-Ressel · Pascal Mettes

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Iterative Methods for Private Synthetic Data: Unifying Framework and New Methods

Terrance Liu · Giuseppe Vietri · Steven Wu

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Hyperparameter Optimization Is Deceiving Us, and How to Stop It

A. Feder Cooper · Yucheng Lu · Jessica Forde · Christopher De Sa

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Local Differential Privacy for Regret Minimization in Reinforcement Learning

Evrard Garcelon · Vianney Perchet · Ciara Pike-Burke · Matteo Pirotta

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Dr Jekyll & Mr Hyde: the strange case of off-policy policy updates

Romain Laroche · Remi Tachet des Combes

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Double/Debiased Machine Learning for Dynamic Treatment Effects

Greg Lewis · Vasilis Syrgkanis

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The Flip Side of the Reweighted Coin: Duality of Adaptive Dropout and Regularization

Daniel LeJeune · Hamid Javadi · Richard Baraniuk

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Provable Representation Learning for Imitation with Contrastive Fourier Features

Ofir Nachum · Mengjiao Yang

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SOAT: A Scene- and Object-Aware Transformer for Vision-and-Language Navigation

Abhinav Moudgil · Arjun Majumdar · Harsh Agrawal · Stefan Lee · Dhruv Batra

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Directed Probabilistic Watershed

Enrique Fita Sanmartin · Sebastian Damrich · Fred Hamprecht

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Last-iterate Convergence in Extensive-Form Games

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Online Market Equilibrium with Application to Fair Division

Yuan Gao · Alex Peysakhovich · Christian Kroer

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RL for Latent MDPs: Regret Guarantees and a Lower Bound

Jeongyeol Kwon · Yonathan Efroni · Constantine Caramanis · Shie Mannor

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Risk Minimization from Adaptively Collected Data: Guarantees for Supervised and Policy Learning

Aurelien Bibaut · Nathan Kallus · Maria Dimakopoulou · Antoine Chambaz · Mark van der Laan

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Consistent Estimation for PCA and Sparse Regression with Oblivious Outliers

Tommaso d'Orsi · Chih-Hung Liu · Rajai Nasser · Gleb Novikov · David Steurer · Stefan Tiegel

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On the interplay between data structure and loss function in classification problems

Stéphane d'Ascoli · Marylou Gabrié · Levent Sagun · Giulio Biroli

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Scalable Online Planning via Reinforcement Learning Fine-Tuning

Arnaud Fickinger · Hengyuan Hu · Brandon Amos · Stuart Russell · Noam Brown

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Federated Reconstruction: Partially Local Federated Learning

Karan Singh · Hakim Sidahmed · Zachary Garrett · Shanshan Wu · John Rush · Sushant Prakash

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Surrogate Regret Bounds for Polyhedral Losses

Rafael Frongillo · Bo Waggoner

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Hierarchical Reinforcement Learning with Timed Subgoals

Nico Görtler · Dieter Büchler · Georg Martius

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General Nonlinearities in $SO(2)$ -Equivariant CNNs

Daniel Franzen · Michael Wand

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Improving Anytime Prediction with Parallel Cascaded Networks and a Temporal-Difference Loss

Michael Iuzzolino · Michael Mozer · Samy Bengio

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Planning from Pixels in Environments with Combinatorially Hard Search Spaces

Marco Bagatella · Miroslav Olšák · Michal Rolínek · Georg Martius

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Beyond Pinball Loss: Quantile Methods for Calibrated Uncertainty Quantification

Youngseog Chung · Willie Neiswanger · Ian Char · Jeff Schneider

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Learning to Synthesize Programs as Interpretable and Generalizable Policies

Dweep Trivedi · Jesse Zhang · Shao-Hua Sun · Joseph Lim

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Adversarial Regression with Doubly Non-negative Weighting Matrices

Tam Le · Truyen Nguyen · Makoto Yamada · Jose Blanchet · Viet Anh Nguyen

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Dynamic influence maximization

Binghui Peng

In Poster Session 6

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Closing the loop in medical decision support by understanding clinical decision-making:

A case study on organ transplantation

Yuchao Qin · Fergus Imrie · Alihan Hüyük · Daniel Jarrett · alexander gimson · Mihaela van der Schaar

In Poster Session 6

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A Near-Optimal Algorithm for Stochastic Bilevel Optimization via Double-Momentum

Prashant Khanduri · Siliang Zeng · Mingyi Hong · Hoi-To Wai · Zhaoran Wang · Zhuoran Yang

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Adaptive Sampling for Minimax Fair Classification

Shubhangshu Shekhar · Greg Fields · Mohammad Ghavamzadeh · Tara Javidi

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CAM-GAN: Continual Adaptation Modules for Generative Adversarial Networks

Sakshi Varshney · Vinay Kumar Verma · P. K. Srijith · Lawrence Carin · Piyush Rai

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Probabilistic Attention for Interactive Segmentation

Prasad Gabbur · Manjot Bilkhū · Javier Movellan

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Contrastive Reinforcement Learning of Symbolic Reasoning Domains

Gabriel Poesia · WenXin Dong · Noah Goodman

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Relaxed Marginal Consistency for Differentially Private Query Answering

Ryan McKenna · Siddhant Pradhan · Daniel Sheldon · Gerome Miklau

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On The Structure of Parametric Tournaments with Application to Ranking from Pairwise Comparisons

Vishnu Veerathu · Arun Rajkumar

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An online passive-aggressive algorithm for difference-of-squares classification

Lawrence Saul

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Junjiao Tian · Dylan Yung · Yen-Chang Hsu · Zsolt Kira

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Label Noise SGD Provably Prefers Flat Global Minimizers

Alex Damian · Tengyu Ma · Jason Lee

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Coresets for Decision Trees of Signals

Ibrahim Jubran · Ernesto Evgeniy Sanches Shayda · Ilan I Newman · Dan Feldman

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On the Periodic Behavior of Neural Network Training with Batch Normalization and Weight Decay

Ekaterina Lobacheva · Maxim Kodryan · Nadezhda Chirkova · Andrey Malinin · Dmitry Vetrov

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Learning Hard Optimization Problems: A Data Generation Perspective

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Similarity and Matching of Neural Network Representations

Adrián Csiszárík · Péter Kőrösi-Szabó · Ákos Matsangosz · Gergely Papp · Dániel Varga

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XCiT: Cross-Covariance Image Transformers

Alaaeldin Ali · Hugo Touvron · Mathilde Caron · Piotr Bojanowski · Matthijs Douze · Armand Joulin · Ivan Laptev · In Poster Session 6
Natalia Neverova · Gabriel Synnaeve · Jakob Verbeek · Herve Jegou

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Neural-PIL: Neural Pre-Integrated Lighting for Reflectance Decomposition

Mark Boss · Varun Jampani · Raphael Braun · Ce Liu · Jonathan Barron · Hendrik PA Lensch

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Inverse Problems Leveraging Pre-trained Contrastive Representations

Sriram Ravula · Georgios Smyrnis · Matt Jordan · Alexandros Dimakis

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Noisy Recurrent Neural Networks

Soon Hoe Lim · N. Benjamin Erichson · Liam Hodgkinson · Michael Mahoney

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Glance-and-Gaze Vision Transformer

Qihang Yu · Yingda Xia · Yutong Bai · Yongyi Lu · Alan Yuille · Wei Shen

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Shaping embodied agent behavior with activity-context priors from egocentric video

Tushar Nagarajan · Kristen Grauman

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Representation Learning Beyond Linear Prediction Functions

Ziping Xu · Ambuj Tewari

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Average-Reward Learning and Planning with Options

Yi Wan · Abhishek Naik · Rich Sutton

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PettingZoo: Gym for Multi-Agent Reinforcement Learning

J Terry · Benjamin Black · Nathaniel Grammel · Mario Jayakumar · Ananth Hari · Ryan Sullivan · Luis S Santos · In Poster Session 6
Clemens Dieffendahl · Caroline Horsch · Rodrigo Perez-Vicente · Niall Williams · Yashas Lokesh · Praveen Ravi

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Beltrami Flow and Neural Diffusion on Graphs

Benjamin Chamberlain · James Rowbottom · Davide Eynard · Francesco Di Giovanni · Xiaowen Dong · Michael Bronstein · In Poster Session 6

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Private and Non-private Uniformity Testing for Ranking Data

Róbert Busa-Fekete · Dimitris Fotakis · Emmanouil Zampetakis · In Poster Session 6

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NeRV: Neural Representations for Videos

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Learning to See by Looking at Noise

Manel Baradad Jurjo · Jonas Wulff · Tongzhou Wang · Phillip Isola · Antonio Torralba · In Poster Session 6

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Contextual Recommendations and Low-Regret Cutting-Plane Algorithms

Sreenivas Gollapudi · Guru Guruganesh · Kostas Kollias · Pasin Manurangsi · Renato Leme · Jon Schneider · In Poster Session 6

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Who Leads and Who Follows in Strategic Classification?

Tijana Zrnic · Eric Mazumdar · Shankar Sastry · Michael Jordan · In Poster Session 6

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How to transfer algorithmic reasoning knowledge to learn new algorithms?

Louis-Pascal Xhonneux · Andreea-Ioana Deac · Petar Veličković · Jian Tang · In Poster Session 6

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A Unified Approach to Fair Online Learning via Blackwell Approachability

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Approximate Decomposable Submodular Function Minimization for Cardinality-Based Components

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Optimality and Stability in Federated Learning: A Game-theoretic Approach

Kate Donahue · Jon Kleinberg

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Evaluating Gradient Inversion Attacks and Defenses in Federated Learning

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Fair Classification with Adversarial Perturbations

L. Elisa Celis · Anay Mehrotra · Nisheeth Vishnoi

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Deep Learning on a Data Diet: Finding Important Examples Early in Training

Mansheej Paul · Surya Ganguli · Gintare Karolina Dziugaite

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Causal Navigation by Continuous-time Neural Networks

Charles Vorbach · Ramin Hasani · Alexander Amini · Mathias Lechner · Daniela Rus

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Neural Bootstrapper

Minsuk Shin · Hyungjoo Cho · Hyun-seok Min · Sungbin Lim

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Score-based Generative Modeling in Latent Space

Arash Vahdat · Karsten Kreis · Jan Kautz

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Offline Meta Reinforcement Learning -- Identifiability Challenges and Effective Data**Collection Strategies**

Ron Dorfman · Idan Shenveld · Aviv Tamar

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FLEX: Unifying Evaluation for Few-Shot NLP

Jonathan Bragg · Arman Cohan · Kyle Lo · Iz Beltagy

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Boosted CVaR Classification

Runtian Zhai · Chen Dan · Arun Suggala · J. Zico Kolter · Pradeep Ravikumar

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Learning to Predict Trustworthiness with Steep Slope Loss

Yan Luo · Yongkang Wong · Mohan Kankanhalli · Qi Zhao

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End-to-End Weak Supervision

Salva Rühling Cachay · Benedikt Boecking · Artur Dubrawski

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Improved Regret Bounds for Tracking Experts with Memory

James Robinson · Mark Herbster

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Characterizing the risk of fairwashing

Ulrich Aïvodji · Hiromi Arai · Sébastien Gambs · Satoshi Hara

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Scalable Inference of Sparsely-changing Gaussian Markov Random Fields

Salar Fattah · Andres Gomez

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Mixture weights optimisation for Alpha-Divergence Variational Inference

Kamélia Daudel · randal douc

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Gradient Starvation: A Learning Proclivity in Neural Networks

Mohammad Pezeshki · Oumar Kaba · Yoshua Bengio · Aaron Courville · Doina Precup · Guillaume Lajoie

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Fair Scheduling for Time-dependent Resources

Bo Li · Minming Li · Ruilong Zhang

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MCMC Variational Inference via Uncorrected Hamiltonian Annealing

Tomas Geffner · Justin Domke

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Learning to Schedule Heuristics in Branch and Bound

Antonia Chmiela · Elias Khalil · Ambros Gleixner · Andrea Lodi · Sebastian Pokutta

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TAAC: Temporally Abstract Actor-Critic for Continuous Control

Haonan Yu · Wei Xu · Haichao Zhang

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Reinforcement learning for optimization of variational quantum circuit architectures

Mateusz Ostaszewski · Lea M. Trenkwalder · Wojciech Masarczyk · Eleanor Scerri · Vedran Dunjko

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Aligned Structured Sparsity Learning for Efficient Image Super-Resolution

Yulun Zhang · Huan Wang · Can Qin · Yun Fu

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Online Adaptation to Label Distribution Shift

Ruihan Wu · Chuan Guo · Yi Su · Kilian Weinberger

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Asymptotics of representation learning in finite Bayesian neural networks

Jacob Zavatone-Veth · Abdulkadir Canatar · Ben Ruben · Cengiz Pehlevan

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Object-Centric Representation Learning with Generative Spatial-Temporal Factorization

Nanbo Li · Muhammad Ahmed Raza · Wenbin Hu · Zhaole Sun · Robert Fisher

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Analyzing the Confidentiality of Undistillable Teachers in Knowledge Distillation

Souvik Kundu · Qirui Sun · Yao Fu · Massoud Pedram · Peter Beerel

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Unsupervised Speech Recognition

Alexei Baevski · Wei-Ning Hsu · Alexis CONNEAU · Michael Auli

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Interesting Object, Curious Agent: Learning Task-Agnostic Exploration

Simone Parisi · Victoria Dean · Deepak Pathak · Abhinav Gupta

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Can multi-label classification networks know what they don't know?

Haoran Wang · Weitang Liu · Alex Bocchieri · Yixuan Li

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Retiring Adult: New Datasets for Fair Machine Learning

Frances Ding · Moritz Hardt · John Miller · Ludwig Schmidt

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Federated Hyperparameter Tuning: Challenges, Baselines, and Connections to Weight-Sharing

Mikhail Khodak · Renbo Tu · Tian Li · Liam Li · Maria-Florina Balcan · Virginia Smith · Ameet Talwalkar

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FACMAC: Factored Multi-Agent Centralised Policy Gradients

Bei Peng · Tabish Rashid · Christian Schroeder de Witt · Pierre-Alexandre Kamienny · Philip Torr · Wendelin Boehmer · Shimon Whiteson

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Circa: Stochastic ReLUs for Private Deep Learning

Zahra Ghodsi · Nandan Kumar Jha · Brandon Reagan · Siddharth Garg

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Multiclass Boosting and the Cost of Weak Learning

Nataly Brukhim · Elad Hazan · Shay Moran · Indraneel Mukherjee · Robert Schapire

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Controllable and Compositional Generation with Latent-Space Energy-Based Models

Weili Nie · Arash Vahdat · Anima Anandkumar

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Minimax Optimal Quantile and Semi-Adversarial Regret via Root-Logarithmic Regularizers

Jeffrey Negrea · Blair Bilodeau · Nicolò Campolongo · Francesco Orabona · Dan Roy

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Improved Guarantees for Offline Stochastic Matching via new Ordered Contention

Resolution Schemes

Brian Brubach · Nathaniel Grammel · Will Ma · Aravind Srinivasan

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Distributed Principal Component Analysis with Limited Communication

Foivos Alimisis · Peter Davies · Bart Vandereycken · Dan Alistarh

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Exploration-Exploitation in Multi-Agent Competition: Convergence with Bounded Rationality

Stefanos Leonardos · Georgios Piliouras · Kelly Spendlove

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An Online Riemannian PCA for Stochastic Canonical Correlation Analysis

Zihang Meng · Rudrasis Chakraborty · Vikas Singh

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Risk Bounds for Over-parameterized Maximum Margin Classification on Sub-Gaussian Mixtures

Yuan Cao · Quanquan Gu · Mikhail Belkin

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Training Over-parameterized Models with Non-decomposable Objectives

Harikrishna Narasimhan · Aditya Menon

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Replay-Guided Adversarial Environment Design

Minqi Jiang · Michael Dennis · Jack Parker-Holder · Jakob Foerster · Edward Grefenstette · Tim Rocktäschel

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Bayesian Bellman Operators

Mattie Fellows · Kristian Hartikainen · Shimon Whiteson

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Faster Neural Network Training with Approximate Tensor Operations

Menachem Adelman · Kfir Levy · Ido Hakimi · Mark Silberstein

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Linear Convergence in Federated Learning: Tackling Client Heterogeneity and Sparse Gradients

Aritra Mitra · Rayana Jaafar · George J. Pappas · Hamed Hassani

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NeuS: Learning Neural Implicit Surfaces by Volume Rendering for Multi-view Reconstruction

Peng Wang · Lingjie Liu · Yuan Liu · Christian Theobalt · Taku Komura · Wenping Wang

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Don't Generate Me: Training Differentially Private Generative Models with Sinkhorn

Divergence

Tianshi Cao · Alex Bie · Arash Vahdat · Sanja Fidler · Karsten Kreis

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SLOE: A Faster Method for Statistical Inference in High-Dimensional Logistic Regression

Steve Yadlowsky · Taedong Yun · Cory Y McLean · Alexander D'Amour

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Label-Imbalanced and Group-Sensitive Classification under Overparameterization

Ganesh Ramachandra Kini · Orestis Paraskevas · Samet Oymak · Christos Thrampoulidis

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On the Theory of Reinforcement Learning with Once-per-Episode Feedback

Niladri Chatterji · Aldo Pacchiano · Peter Bartlett · Michael Jordan

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Reinforcement Learning Enhanced Explainer for Graph Neural Networks

Caihua Shan · Yifei Shen · Yao Zhang · Xiang Li · Dongsheng Li

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Federated Graph Classification over Non-IID Graphs

Han Xie · Jing Ma · Li Xiong · Carl Yang

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On the Importance of Gradients for Detecting Distributional Shifts in the Wild

Rui Huang · Andrew Geng · Yixuan Li

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Adjusting for Autocorrelated Errors in Neural Networks for Time Series

Fan-Keng Sun · Chris Lang · Duane Boning

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Improving Compositionality of Neural Networks by Decoding Representations to Inputs

Mike Wu · Noah Goodman · Stefano Ermon

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Minimizing Polarization and Disagreement in Social Networks via Link Recommendation

Liwang Zhu · Qi Bao · Zhongzhi Zhang

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Enabling Fast Differentially Private SGD via Just-in-Time Compilation and Vectorization

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NeuroLKH: Combining Deep Learning Model with Lin-Kernighan-Helsgaun Heuristic for Solving the Traveling Salesman Problem

Liang Xin · Wen Song · Zhiguang Cao · Jie Zhang

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Characterizing Generalization under Out-Of-Distribution Shifts in Deep Metric Learning

Timo Milbich · Karsten Roth · Samarth Sinha · Ludwig Schmidt · Marzyeh Ghassemi · Bjorn Ommer

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Understanding End-to-End Model-Based Reinforcement Learning Methods as Implicit Parameterization

Clement Gehring · Kenji Kawaguchi · Jiaoyang Huang · Leslie Kaelbling

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Causal Influence Detection for Improving Efficiency in Reinforcement Learning

Maximilian Seitzer · Bernhard Schölkopf · Georg Martius

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On the Sample Complexity of Privately Learning Axis-Aligned Rectangles

Menachem Sadigurschi · Uri Stemmer

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Local policy search with Bayesian optimization

Sarah Müller · Alexander von Rohr · Sebastian Trimpe

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Learning in two-player zero-sum partially observable Markov games with perfect recall

Tadashi Kozuno · Pierre Ménard · Remi Munos · Michal Valko

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Practical Large-Scale Linear Programming using Primal-Dual Hybrid Gradient

David Applegate · Mateo Diaz · Oliver Hinder · Haihao Lu · Miles Lubin · Brendan O'Donoghue · Warren Schudy

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The Lazy Online Subgradient Algorithm is Universal on Strongly Convex Domains

Daron Anderson · Douglas Leith

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Adapting to function difficulty and growth conditions in private optimization

Hilaf Asi · Daniel Levy · John Duchi

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Post-processing for Individual Fairness

Felix Petersen · Debarghya Mukherjee · Yuekai Sun · Mikhail Yurochkin

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Solving Min-Max Optimization with Hidden Structure via Gradient Descent Ascent

Emmanouil-Vasileios Vlatakis-Gkaragkounis · Lampros Flokas · Georgios Piliouras

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Locally private online change point detection

Tom Berrett · Yi Yu

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Benign Overfitting in Multiclass Classification: All Roads Lead to Interpolation

Ke Wang · Vidya Muthukumar · Christos Thrampoulidis

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FjORD: Fair and Accurate Federated Learning under heterogeneous targets with Ordered Dropout

Samuel Horváth · Stefanos Laskaridis · Mario Almeida · Ilias Leontiadis · Stylianos Venieris · Nicholas Lane

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Distribution-free inference for regression: discrete, continuous, and in between

Yonghoon Lee · Rina Barber

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Pipeline Combinators for Gradual AutoML

Guillaume Baudart · Martin Hirzel · Kiran Kate · Parikshit Ram · Avi Shinnar · Jason Tsay

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Ensembling Graph Predictions for AMR Parsing

Thanh Lam Hoang · Gabriele Picco · Yufang Hou · Young-Suk Lee · Lam Nguyen · Dzung Phan · Vanessa Lopez
· Ramon Fernandez Astudillo

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Probabilistic Forecasting: A Level-Set Approach

Hilaf Hasson · Bernie Wang · Tim Januschowski · Jan Gasthaus

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Perturb-and-max-product: Sampling and learning in discrete energy-based models

Miguel Lazaro-Gredilla · Antoine Dedieu · Dileep George

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Optimal Uniform OPE and Model-based Offline Reinforcement Learning in Time-Homogeneous, Reward-Free and Task-Agnostic Settings

Ming Yin · Yu-Xiang Wang

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Two-sided fairness in rankings via Lorenz dominance

Virginie Do · Sam Corbett-Davies · Jamal Atif · Nicolas Usunier

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Asymptotics of the Bootstrap via Stability with Applications to Inference with Model Selection

Morgane Austern · Vasilis Syrgkanis

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Locally differentially private estimation of functionals of discrete distributions

Cristina Butucea · Yann ISSARTEL

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Single Layer Predictive Normalized Maximum Likelihood for Out-of-Distribution Detection

Koby Bibas · Meir Feder · Tal Hassner

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PDE-GCN: Novel Architectures for Graph Neural Networks Motivated by Partial Differential Equations

Moshe Eliasof · Eldad Haber · Eran Treister

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Machine Learning for Variance Reduction in Online Experiments

Yongyi Guo · Dominic Coey · Mikael Konutgan · Wenting Li · Chris Schoener · Matt Goldman

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The Skellam Mechanism for Differentially Private Federated Learning

Naman Agarwal · Peter Kairouz · Ziyu Liu

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Logarithmic Regret in Feature-based Dynamic Pricing

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Risk-Aware Transfer in Reinforcement Learning using Successor Features

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Differentially Private n-gram Extraction

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Nima Dehmamy · Robin Walters · Yanchen Liu · Dashun Wang · Rose Yu

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Improving Conditional Coverage via Orthogonal Quantile Regression

Shai Feldman · Stephen Bates · Yaniv Romano

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Speech-T: Transducer for Text to Speech and Beyond

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On the Out-of-distribution Generalization of Probabilistic Image Modelling

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PreferenceNet: Encoding Human Preferences in Auction Design with Deep Learning

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Privately Learning Mixtures of Axis-Aligned Gaussians

Ishaq Aden-Ali · Hassan Ashtiani · Christopher Liaw

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Group Equivariant Subsampling

Jin Xu · Hyunjik Kim · Thomas Rainforth · Yee Teh

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Tree in Tree: from Decision Trees to Decision Graphs

Bingzhao Zhu · Mahsa Shoaran

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Tim G. J. Rudner · Vitchyr Pong · Rowan McAllister · Yarin Gal · Sergey Levine

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Boosting with Multiple Sources

Corinna Cortes · Mehryar Mohri · Dmitry Storcheus · Ananda Theertha Suresh

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Learning Semantic Representations to Verify Hardware Designs

Shobha Vasudevan · Wenjie (Joe) Jiang · David Bieber · Rishabh Singh · hamid shojaei · C. Richard Ho · Charles Sutton

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DECAF: Generating Fair Synthetic Data Using Causally-Aware Generative Networks

Boris van Breugel · Trent Kyono · Jeroen Berrevoets · Mihaela van der Schaar

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Representation Costs of Linear Neural Networks: Analysis and Design

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Multiclass versus Binary Differentially Private PAC Learning

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Efficient hierarchical Bayesian inference for spatio-temporal regression models in neuroimaging

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Understanding Negative Samples in Instance Discriminative Self-supervised Representation Learning

Kento Nozawa · Issei Sato

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Never Go Full Batch (in Stochastic Convex Optimization)

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Federated Multi-Task Learning under a Mixture of Distributions

Othmane Marfoq · Giovanni Neglia · Aurélien Bellet · Laetitia Kameni · Richard Vidal

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Multimodal Few-Shot Learning with Frozen Language Models

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Decision Transformer: Reinforcement Learning via Sequence Modeling

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DRIVE: One-bit Distributed Mean Estimation

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Are Transformers more robust than CNNs?

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Photonic Differential Privacy with Direct Feedback Alignment

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Towards Context-Agnostic Learning Using Synthetic Data

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Make Sure You're Unsure: A Framework for Verifying Probabilistic Specifications

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Fast Pure Exploration via Frank-Wolfe

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Safe Reinforcement Learning with Natural Language Constraints

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Disentangling Identifiable Features from Noisy Data with Structured Nonlinear ICA

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Unsupervised Learning of Compositional Energy Concepts

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Quentin Rebjock · Baris Kurt · Tim Januschowski · Laurent Callot

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Are My Deep Learning Systems Fair? An Empirical Study of Fixed-Seed Training

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Asynchronous Stochastic Optimization Robust to Arbitrary Delays

Alon Cohen · Amit Daniely · Yoel Drori · Tomer Koren · Mariano Schain

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Towards Tight Communication Lower Bounds for Distributed Optimisation

Janne H. Korhonen · Dan Alistarh

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Detecting Individual Decision-Making Style: Exploring Behavioral Stylometry in Chess

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Fair Sparse Regression with Clustering: An Invex Relaxation for a Combinatorial Problem

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Privately Learning Subspaces

Vikrant Singhal · Thomas Steinke

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Stochastic Gradient Descent-Ascent and Consensus Optimization for Smooth Games:

Convergence Analysis under Expected Co-coercivity

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GENESIS-V2: Inferring Unordered Object Representations without Iterative Refinement

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Searching for Efficient Transformers for Language Modeling

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Differentially Private Sampling from Distributions

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Learning Policies with Zero or Bounded Constraint Violation for Constrained MDPs

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Fixes That Fail: Self-Defeating Improvements in Machine-Learning Systems

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Canonical Capsules: Self-Supervised Capsules in Canonical Pose

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Scaling Ensemble Distribution Distillation to Many Classes with Proxy Targets

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Lattice partition recovery with dyadic CART

OSCAR HERNAN MADRID PADILLA · Yi Yu · Alessandro Rinaldo

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Symplectic Adjoint Method for Exact Gradient of Neural ODE with Minimal Memory

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Modeling Heterogeneous Hierarchies with Relation-specific Hyperbolic Cones

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Which Mutual-Information Representation Learning Objectives are Sufficient for Control?

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Can we globally optimize cross-validation loss? Quasiconvexity in ridge regression

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Probabilistic Transformer For Time Series Analysis

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Kohei Miyaguchi

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Sitan Chen · Adam Klivans · Raghu Meka

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Why Lottery Ticket Wins? A Theoretical Perspective of Sample Complexity on Sparse Neural Networks

Shuai Zhang · Meng Wang · Sijia Liu · Pin-Yu Chen · Jinjun Xiong

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Learning to delegate for large-scale vehicle routing

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Increasing Liquid State Machine Performance with Edge-of-Chaos Dynamics Organized by Astrocyte-modulated Plasticity

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Constrained Robust Submodular Partitioning

Shengjie Wang · Tianyi Zhou · Chandrashekhar Lavania · Jeff A Bilmes

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Efficient Algorithms for Learning Depth-2 Neural Networks with General ReLU Activations

Pranjal Awasthi · Alex Tang · Aravindan Vijayaraghavan

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Fast Doubly-Adaptive MCMC to Estimate the Gibbs Partition Function with Weak Mixing Time Bounds

Shahrzad Haddadan · Yue Zhuang · Cyrus Cousins · Eli Upfal

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Stochastic optimization under time drift: iterate averaging, step-decay schedules, and high probability guarantees

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Convergence and Alignment of Gradient Descent with Random Backpropagation Weights

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Uniform Convergence of Interpolators: Gaussian Width, Norm Bounds and Benign Overfitting

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A Unified View of cGANs with and without Classifiers

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Subgame solving without common knowledge

Brian Zhang · Tuomas Sandholm

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Learning to Select Exogenous Events for Marked Temporal Point Process

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A Computationally Efficient Method for Learning Exponential Family Distributions

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SalKG: Learning From Knowledge Graph Explanations for Commonsense Reasoning

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HyperSPNs: Compact and Expressive Probabilistic Circuits

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Simple Stochastic and Online Gradient Descent Algorithms for Pairwise Learning

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Techniques for Symbol Grounding with SATNet

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Systematic Generalization with Edge Transformers

Leon Bergen · Timothy O'Donnell · Dzmitry Bahdanau

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Rot-Pro: Modeling Transitivity by Projection in Knowledge Graph Embedding

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Diffusion Schrödinger Bridge with Applications to Score-Based Generative Modeling

Valentin De Bortoli · James Thornton · Jeremy Heng · Arnaud Doucet

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Functionally Regionalized Knowledge Transfer for Low-resource Drug Discovery

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Fast Bayesian Inference for Gaussian Cox Processes via Path Integral Formulation

Hideaki Kim

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Dynamic Inference with Neural Interpreters

Nasim Rahaman · Muhammad Waleed Gondal · Shruti Joshi · Peter Gehler · Yoshua Bengio · Francesco Locatello · Bernhard Schölkopf

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Optimal Underdamped Langevin MCMC Method

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Realistic evaluation of transductive few-shot learning

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Reliable Post hoc Explanations: Modeling Uncertainty in Explainability

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Dynamic Visual Reasoning by Learning Differentiable Physics Models from Video and Language

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TöRF: Time-of-Flight Radiance Fields for Dynamic Scene View Synthesis

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Improving Coherence and Consistency in Neural Sequence Models with Dual-System, Neuro-Symbolic Reasoning

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Episodic Multi-agent Reinforcement Learning with Curiosity-driven Exploration

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Revealing and Protecting Labels in Distributed Training

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Distributed Estimation with Multiple Samples per User: Sharp Rates and Phase Transition

Jayadev Acharya · Clement Canonne · Yuhan Liu · Ziteng Sun · Himanshu Tyagi

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The future is log-Gaussian: ResNets and their infinite-depth-and-width limit at initialization

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Robust Visual Reasoning via Language Guided Neural Module Networks

Arjun Akula · Varun Jampani · Soravit Changpinyo · Song-Chun Zhu

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Robust and differentially private mean estimation

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Information-constrained optimization: can adaptive processing of gradients help?

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Understanding Deflation Process in Over-parametrized Tensor Decomposition

Rong Ge · Yunwei Ren · Xiang Wang · Mo Zhou

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Supercharging Imbalanced Data Learning With Energy-based Contrastive Representation Transfer

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Regulating algorithmic filtering on social media

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Long Short-Term Transformer for Online Action Detection

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SUPER-ADAM: Faster and Universal Framework of Adaptive Gradients

Feihu Huang · Junyi Li · Heng Huang

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SimiGrad: Fine-Grained Adaptive Batching for Large Scale Training using Gradient Similarity Measurement

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Implicit Transformer Network for Screen Content Image Continuous Super-Resolution

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Conflict-Averse Gradient Descent for Multi-task learning

Bo Liu · Xingchao Liu · Xiaojie Jin · Peter Stone · Qiang Liu

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PLUGIn: A simple algorithm for inverting generative models with recovery guarantees

Babhu Joshi · Xiaowei Li · Yaniv Plan · Ozgur Yilmaz

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Believe What You See: Implicit Constraint Approach for Offline Multi-Agent Reinforcement Learning

Yiqin Yang · Xiaoteng Ma · Li Chenghao · Zewu Zheng · Qiyuan Zhang · Gao Huang · Jun Yang · Qianchuan Zhao

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Reinforcement Learning based Disease Progression Model for Alzheimer's Disease

Krishnakant Saboo · Anirudh Choudhary · Yurui Cao · Gregory Worrell · David Jones · Ravishankar Iyer

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Conservative Offline Distributional Reinforcement Learning

Yecheng Ma · Dinesh Jayaraman · Osbert Bastani

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Joint inference and input optimization in equilibrium networks

Swaminathan Gurumurthy · Shaojie Bai · Zachary Manchester · J. Zico Kolter

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Locality Sensitive Teaching

Zhaozhuo Xu · Beidi Chen · Chaojian Li · Weiyang Liu · Le Song · Yingyan Lin · Anshumali Shrivastava

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Auditing Black-Box Prediction Models for Data Minimization Compliance

Bashir Rastegarpanah · Krishna Gummadi · Mark Crovella

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Learning 3D Dense Correspondence via Canonical Point Autoencoder

An-Chieh Cheng · Xuetong Li · Min Sun · Ming-Hsuan Yang · Sifei Liu

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Clockwork Variational Autoencoders

Vaibhav Saxena · Jimmy Ba · Danijar Hafner

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Divergence Frontiers for Generative Models: Sample Complexity, Quantization Effects, and Frontier Integrals

Lang Liu · Krishna Pillutla · Sean Welleck · Sewoong Oh · Yejin Choi · Zaid Harchaoui

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Stronger NAS with Weaker Predictors

Junru Wu · Xiyang Dai · Dongdong Chen · Yinpeng Chen · Mengchen Liu · Ye Yu · Zhangyang Wang · Zicheng Liu · Mei Chen · Lu Yuan

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On the Representation of Solutions to Elliptic PDEs in Barron Spaces

Ziang Chen · Jianfeng Lu · Yulong Lu

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Generalized Shape Metrics on Neural Representations

Alex H Williams · Erin Kunz · Simon Kornblith · Scott Linderman

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Combiner: Full Attention Transformer with Sparse Computation Cost

Hongyu Ren · Hanjun Dai · Zihang Dai · Mengjiao Yang · Jure Leskovec · Dale Schuurmans · Bo Dai

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Approximate optimization of convex functions with outlier noise

Anindya De · Sanjeev Khanna · Huan Li · MohammadHesam NikpeySalekde

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An Exponential Lower Bound for Linearly Realizable MDP with Constant Suboptimality Gap

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Evolution Gym: A Large-Scale Benchmark for Evolving Soft Robots

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Unifying Width-Reduced Methods for Quasi-Self-Concordant Optimization

Deeksha Adil · Brian Bullins · Sushant Sachdeva

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AutoBalance: Optimized Loss Functions for Imbalanced Data

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Metadata-based Multi-Task Bandits with Bayesian Hierarchical Models

Runzhe Wan · Lin Ge · Rui Song

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STEM: A Stochastic Two-Sided Momentum Algorithm Achieving Near-Optimal Sample and Communication Complexities for Federated Learning

Prashant Khanduri · PRANAY SHARMA · Haibo Yang · Mingyi Hong · Jia Liu · Ketan Rajawat · Pramod Varshney

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A Regression Approach to Learning-Augmented Online Algorithms

Keerti Anand · Rong Ge · Amit Kumar · Debmalya Panigrahi

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Stability and Generalization of Bilevel Programming in Hyperparameter Optimization

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Multi-Agent Reinforcement Learning in Stochastic Networked Systems

Yiheng Lin · Guannan Qu · Longbo Huang · Adam Wierman

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Pointwise Bounds for Distribution Estimation under Communication Constraints

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Identity testing for Mallows model

Róbert Busa-Fekete · Dimitris Fotakis · Balázs Szorenyi · Emmanouil Zampetakis

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Multiwavelet-based Operator Learning for Differential Equations

Gaurav Gupta · Xiongye Xiao · Paul Bogdan

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A Minimalist Approach to Offline Reinforcement Learning	
Scott Fujimoto · Shixiang (Shane) Gu	In Poster Session 7
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Fast Extra Gradient Methods for Smooth Structured Nonconvex-Nonconcave Minimax Problems	
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Imitation with Neural Density Models	
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Matrix encoding networks for neural combinatorial optimization	
Yeong-Dae Kwon · Jinho Choo · Iljoo Yoon · Minah Park · Duwon Park · Youngjune Gwon	In Poster Session 7
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Latent Execution for Neural Program Synthesis Beyond Domain-Specific Languages	
Xinyun Chen · Dawn Song · Yuandong Tian	In Poster Session 7
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BatchQuant: Quantized-for-all Architecture Search with Robust Quantizer	
Haoping Bai · Meng Cao · Ping Huang · Jiulong Shan	In Poster Session 7
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Uncertainty-Based Offline Reinforcement Learning with Diversified Q-Ensemble	
Gaon An · Seungyong Moon · Jang-Hyun Kim · Hyun Oh Song	In Poster Session 7
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Fairness in Ranking under Uncertainty	
Ashudeep Singh · David Kempe · Thorsten Joachims	In Poster Session 7
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Noether's Learning Dynamics: Role of Symmetry Breaking in Neural Networks

Hidenori Tanaka · Daniel Kunin

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DIB-R++: Learning to Predict Lighting and Material with a Hybrid Differentiable Renderer

Wenzheng Chen · Joey Litalien · Jun Gao · Zian Wang · Clement Fuji Tsang · Sameh Khamis · Or Litany · Sanja Fidler

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Dissecting the Diffusion Process in Linear Graph Convolutional Networks

Yifei Wang · Yisen Wang · Jiansheng Yang · Zhouchen Lin

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Self-Adaptable Point Processes with Nonparametric Time Decays

Zhimeng Pan · Zheng Wang · Jeff M Phillips · Shandian Zhe

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Causal Abstractions of Neural Networks

Atticus Geiger · Hanson Lu · Thomas Icard · Christopher Potts

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FedDR – Randomized Douglas-Rachford Splitting Algorithms for Nonconvex Federated Composite Optimization

Quoc Tran Dinh · Nhan H Pham · Dzung Phan · Lam Nguyen

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Looking Beyond Single Images for Contrastive Semantic Segmentation Learning

FEIHU ZHANG · Philip Torr · Rene Ranftl · Stephan Richter

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RLLib Flow: Distributed Reinforcement Learning is a Dataflow Problem

Eric Liang · Zhanghao Wu · Michael Luo · Sven Mika · Joseph Gonzalez · Ion Stoica

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On Path Integration of Grid Cells: Group Representation and Isotropic Scaling

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Backdoor Attack with Imperceptible Input and Latent Modification

Khoa Doan · Yingjie Lao · Ping Li

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Deep Extrapolation for Attribute-Enhanced Generation

Alvin Chan · Ali Madani · Ben Krause · Nikhil Naik

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Controlling Neural Networks with Rule Representations

Sungyong Seo · Sercan Arik · Jinsung Yoon · Xiang Zhang · Kihyuk Sohn · Tomas Pfister

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A Bi-Level Framework for Learning to Solve Combinatorial Optimization on Graphs

Runzhong Wang · Zhigang Hua · Gan Liu · Jiayi Zhang · Junchi Yan · Feng Qi · Shuang Yang · Jun Zhou · Xiaokang Yang In Poster Session 7

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Functional Regularization for Reinforcement Learning via Learned Fourier Features

Alexander Li · Deepak Pathak

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Associative Memories via Predictive Coding

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Dynamic COVID risk assessment accounting for community virus exposure from a spatial-temporal transmission model

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On the Equivalence between Neural Network and Support Vector Machine

Yilan Chen · Wei Huang · Lam Nguyen · Tsui-Wei Weng

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Differentially Private Federated Bayesian Optimization with Distributed Exploration

Zhongxiang Dai · Bryan Kian Hsiang Low · Patrick Jaillet In Poster Session 7

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How can classical multidimensional scaling go wrong?

Rishi Sonthalia · Greg Van Buskirk · Benjamin Raichel · Anna Gilbert

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Inverse Reinforcement Learning in a Continuous State Space with Formal Guarantees

Gregory Dexter · Kevin Bello · Jean Honorio

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Uniform-PAC Bounds for Reinforcement Learning with Linear Function Approximation

jiafan he · Dongruo Zhou · Quanquan Gu

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TriBERT: Human-centric Audio-visual Representation Learning

Tanzila Rahman · Mengyu Yang · Leonid Sigal

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Permutation-Invariant Variational Autoencoder for Graph-Level Representation Learning

Robin Winter · Frank Noe · Djork-Arné Clevert

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True Few-Shot Learning with Language Models

Ethan Perez · Douwe Kiela · Kyunghyun Cho

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Momentum Centering and Asynchronous Update for Adaptive Gradient Methods

Juntang Zhuang · Yifan Ding · Tommy Tang · Nicha Dvornek · Sekhar C Tatikonda · James Duncan

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Slice Sampling Reparameterization Gradients

David Zoltowski · Diana Cai · Ryan Adams

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Online Selective Classification with Limited Feedback

Aditya Gangrade · Anil Kag · Ashok Cutkosky · Venkatesh Saligrama

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Contrastively Disentangled Sequential Variational Autoencoder

Junwen Bai · Weiran Wang · Carla Gomes

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Meta-learning to Improve Pre-training

Aniruddh Raghu · Jonathan Lorraine · Simon Kornblith · Matthew McDermott · David Duvenaud

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Speech Separation Using an Asynchronous Fully Recurrent Convolutional Neural Network

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Efficiently Identifying Task Groupings for Multi-Task Learning

Chris Fifty · Ehsan Amid · Zhe Zhao · Tianhe Yu · Rohan Anil · Chelsea Finn

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Property-Aware Relation Networks for Few-Shot Molecular Property Prediction

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Representing Hyperbolic Space Accurately using Multi-Component Floats

Tao Yu · Christopher De Sa

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RED : Looking for Redundancies for Data-Free Structured Compression of Deep Neural Networks

Edouard YVINEC · Arnaud Dapogny · Matthieu Cord · Kevin Bailly

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Grounding Representation Similarity Through Statistical Testing

Frances Ding · Jean-Stanislas Denain · Jacob Steinhardt

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Differentially Private Learning with Adaptive Clipping

Galen Andrew · Om Thakkar · Brendan McMahan · Swaroop Ramaswamy

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Robust Learning of Optimal Auctions

Wenshuo Guo · Michael Jordan · Emmanouil Zampetakis

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Learning Domain Invariant Representations in Goal-conditioned Block MDPs

Beining Han · Chongyi Zheng · Harris Chan · Keiran Paster · Michael Zhang · Jimmy Ba

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Deconvolutional Networks on Graph Data

Jia Li · Jiajin Li · Yang Liu · Jianwei Yu · Yueteng Li · Hong Cheng

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Differentially Private Model Personalization

Prateek Jain · John Rush · Adam Smith · Shuang Song · Abhradeep Guha Thakurta

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Exponential Bellman Equation and Improved Regret Bounds for Risk-Sensitive Reinforcement Learning

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ReLU Regression with Massart Noise

Ilias Diakonikolas · Jong Ho Park · Christos Tzamos

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Understanding and Improving Early Stopping for Learning with Noisy Labels

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Unbiased Classification through Bias-Contrastive and Bias-Balanced Learning

Youngkyu Hong · Eunho Yang

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Online Robust Reinforcement Learning with Model Uncertainty

Yue Wang · Shaofeng Zou

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A Shading-Guided Generative Implicit Model for Shape-Accurate 3D-Aware Image Synthesis

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COMBO: Conservative Offline Model-Based Policy Optimization

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SOFT: Softmax-free Transformer with Linear Complexity

Jiachen Lu · Jinghan Yao · Junge Zhang · Xiatian Zhu · Hang Xu · Weigu Guo · Chunjing XU · Tao Xiang · Li Zhang

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Reducing Collision Checking for Sampling-Based Motion Planning Using Graph Neural Networks

Chenning Yu · Sicun Gao

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Data Sharing and Compression for Cooperative Networked Control

Jiangnan Cheng · Marco Pavone · Sachin Katti · Sandeep Chinchali · Ao Tang

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Ke ZHANG · Carl Yang · Xiaoxiao Li · Lichao Sun · Siu Ming Yiu

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Understanding Instance-based Interpretability of Variational Auto-Encoders

Zhifeng Kong · Kamalika Chaudhuri

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Lower Bounds on Metropolized Sampling Methods for Well-Conditioned Distributions

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Robust Predictable Control

Ben Eysenbach · Russ Salakhutdinov · Sergey Levine

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Rates of Estimation of Optimal Transport Maps using Plug-in Estimators via Barycentric Projections

NABARUN DEB · Promit Ghosal · Bodhisattva Sen

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Extracting Deformation-Aware Local Features by Learning to Deform

Guilherme Potje · Renato Martins · Felipe Chamone · Erickson Nascimento

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Decoupling the Depth and Scope of Graph Neural Networks

Hanqing Zeng · Muhan Zhang · Yinglong Xia · Ajitesh Srivastava · Andrey Malevich · Rajgopal Kannan · Viktor Prasanna · Long Jin · Ren Chen

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Mihai Fieraru · Mihai Zanfir · Teodor Szente · Eduard Bazavan · Vlad Olaru · Cristian Sminchisescu	In Poster Session 7
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Topographic VAEs learn Equivariant Capsules	
T. Anderson Keller · Max Welling	In Poster Session 7
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Global Convergence to Local Minmax Equilibrium in Classes of Nonconvex Zero-Sum Games	
Tanner Fiez · Lillian Ratliff · Eric Mazumdar · Evan Faulkner · Adhyyan Narang	In Poster Session 7
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Chang Liu · Haoyue Tang · Tao Qin · Jintao Wang · Tie-Yan Liu	In Poster Session 7
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Heyuan Liu · Paul Grigas	In Poster Session 7
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Xiaowu Dai · Michael Jordan	In Poster Session 7
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Scalable and Stable Surrogates for Flexible Classifiers with Fairness Constraints	
Henry C Benekgely · Erik Sudderth	In Poster Session 7
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Dataset Distillation with Infinitely Wide Convolutional Networks	
Timothy Nguyen · Roman Novak · Lechao Xiao · Jaehoon Lee	In Poster Session 7
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Learnable Fourier Features for Multi-dimensional Spatial Positional Encoding	
Yang Li · Si Si · Gang Li · Cho-Jui Hsieh · Samy Bengio	In Poster Session 7

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CoAtNet: Marrying Convolution and Attention for All Data Sizes

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Qu-ANTI-zation: Exploiting Quantization Artifacts for Achieving Adversarial Outcomes

Sanghyun Hong · Michael-Andrei Panaitescu-Liess · Yigitcan Kaya · Tudor Dumitras

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Proxy Convexity: A Unified Framework for the Analysis of Neural Networks Trained by Gradient Descent

Spencer Frei · Quanquan Gu

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DominoSearch: Find layer-wise fine-grained N:M sparse schemes from dense neural networks

Wei Sun · Aojun Zhou · Sander Stuijk · Rob Wijnhoven · Andrew Nelson · hongsheng Li · Henk Corporaal

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The Benefits of Implicit Regularization from SGD in Least Squares Problems

Difan Zou · Jingfeng Wu · Vladimir Braverman · Quanquan Gu · Dean Foster · Sham Kakade

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Dimension-free empirical entropy estimation

Doron Cohen · Aryeh Kontorovich · Aaron Kolyk · Geoffrey Wolfer

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Large Scale Learning on Non-Homophilous Graphs: New Benchmarks and Strong Simple Methods

Derek Lim · Felix Hohne · Xiuyu Li · Sijia Linda Huang · Vaishnavi Gupta · Omkar Bhalerao · Ser Nam Lim

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Continuous-time edge modelling using non-parametric point processes

Xuhui Fan · Bin Li · Feng Zhou · Scott Sisson

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Bounds all around: training energy-based models with bidirectional bounds

Cong Geng · Jia Wang · Zhiyong Gao · Jes Frellsen · Søren Hauberg

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Embedding Principle of Loss Landscape of Deep Neural Networks

Yaoyu Zhang · Zhongwang Zhang · Tao Luo · Zhiqin J Xu

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Mean-based Best Arm Identification in Stochastic Bandits under Reward Contamination

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Robust Counterfactual Explanations on Graph Neural Networks

Mohit Bajaj · Lingyang Chu · Zi Yu Xue · Jian Pei · Lanjun Wang · Peter Cho-Ho Lam · Yong Zhang

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Learning Signal-Agnostic Manifolds of Neural Fields

Yilun Du · Katie Collins · Josh Tenenbaum · Vincent Sitzmann

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Adaptive wavelet distillation from neural networks through interpretations

Wooseok Ha · Chandan Singh · Francois Fleuret · Srigokul Upadhyayula · Bin Yu

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Automated Dynamic Mechanism Design

Hanrui Zhang · Vincent Conitzer

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Closing the Gap: Tighter Analysis of Alternating Stochastic Gradient Methods for Bilevel Problems

Tianyi Chen · Yuejiao Sun · Wotao Yin

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Dynamic Distillation Network for Cross-Domain Few-Shot Recognition with Unlabeled Data

Ashraful Islam · Chun-Fu (Richard) Chen · Rameswar Panda · Leonid Karlinsky · Rogerio Feris · Richard J. Radke

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Newton-LESS: Sparsification without Trade-offs for the Sketched Newton Update

Michał Dereżinski · Jonathan Lacotte · Mert Pilancı · Michael Mahoney

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Fast Policy Extragradient Methods for Competitive Games with Entropy Regularization

Shicong Cen · Yuting Wei · Yuejie Chi

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ProTo: Program-Guided Transformer for Program-Guided Tasks Zelin Zhao · Karan Samel · Binghong Chen · lee song	In Poster Session 7 [ OpenReview]
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Geometry Processing with Neural Fields Guandao Yang · Serge Belongie · Bharath Hariharan · Vladlen Koltun	In Poster Session 7 [ OpenReview]
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Differential Privacy Over Riemannian Manifolds Matthew Reimherr · Karthik Bharath · Carlos Soto	In Poster Session 7 [ OpenReview]
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Time-series Generation by Contrastive Imitation Daniel Jarrett · Ioana Bica · Mihaela van der Schaar	In Poster Session 7 [ OpenReview]
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What training reveals about neural network complexity Andreas Loukas · Marinos Poiitis · Stefanie Jegelka	In Poster Session 7 [ OpenReview]
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Perturbation Theory for the Information Bottleneck Vudtiwat Ngampruetikorn · David Schwab	In Poster Session 7 [ OpenReview]
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High-probability Bounds for Non-Convex Stochastic Optimization with Heavy Tails Ashok Cutkosky · Harsh Mehta	In Poster Session 7 [ OpenReview]
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Deep Synoptic Monte-Carlo Planning in Reconnaissance Blind Chess Gregory Clark	In Poster Session 7 [ OpenReview]
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Dynamic Trace Estimation Prathamesh Dharangutte · Christopher Musco	In Poster Session 7 [Slides] [ OpenReview]

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Discovering and Achieving Goals via World Models

Russell Mendonca · Oleh Rybkin · Kostas Daniilidis · Danijar Hafner · Deepak Pathak

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Pessimism Meets Invariance: Provably Efficient Offline Mean-Field Multi-Agent RL

Minshuo Chen · Yan Li · Ethan Wang · Zhuoran Yang · Zhaoran Wang · Tuo Zhao

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Learning Optimal Predictive Checklists

Haoran Zhang · Quaid Morris · Berk Ustun · Marzyeh Ghassemi

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The best of both worlds: stochastic and adversarial episodic MDPs with unknown transition

Tiancheng Jin · Longbo Huang · Haipeng Luo

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Continuous Latent Process Flows

Ruiwei Deng · Marcus Brubaker · Greg Mori · Andreas Lehrmann

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Successor Feature Landmarks for Long-Horizon Goal-Conditioned Reinforcement Learning

Christopher Hoang · Sungryull Sohn · Jongwook Choi · Wilka Carvalho · Honglak Lee

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Structured in Space, Randomized in Time: Leveraging Dropout in RNNs for Efficient Training

Anup Sarma · Sonali Singh · Huaiyan Jiang · Rui Zhang · Mahmut Kandemir · Chita Das

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Towards understanding retrosynthesis by energy-based models

Ruoxi Sun · Hanjun Dai · Li Li · Steven Kearnes · Bo Dai

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UCB-based Algorithms for Multinomial Logistic Regression Bandits

Sanae Amani · Christos Thrampoulidis

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Improving Self-supervised Learning with Automated Unsupervised Outlier Arbitration

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Minimax Regret for Stochastic Shortest Path

Alon Cohen · Yonathan Efroni · Yishay Mansour · Aviv Rosenberg

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Generating High-Quality Explanations for Navigation in Partially-Revealed Environments

Gregory Stein

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Learning with Labeling Induced Abstentions

Kareem Amin · Giulia DeSalvo · Afshin Rostamizadeh

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Zero Time Waste: Recycling Predictions in Early Exit Neural Networks

Maciej Wołczyk · Bartosz Wójcik · Klaudia Bałazy · Igor T Podolak · Jacek Tabor · Marek Śmieja · Tomasz Trzcinski

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Breaking the Linear Iteration Cost Barrier for Some Well-known Conditional Gradient Methods Using MaxIP Data-structures

Zhaozhuo Xu · Zhao Song · Anshumali Shrivastava

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Intriguing Properties of Vision Transformers

Muhammad Muzammal Naseer · Kanchana Ranasinghe · Salman H Khan · Munawar Hayat · Fahad Shahbaz Khan · Ming-Hsuan Yang

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Argmax Flows and Multinomial Diffusion: Learning Categorical Distributions

Emiel Hoogeboom · Didrik Nielsen · Priyank Jaini · Patrick Forré · Max Welling

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How Fine-Tuning Allows for Effective Meta-Learning

Kurtland Chua · Qi Lei · Jason Lee

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Scatterbrain: Unifying Sparse and Low-rank Attention

Beidi Chen · Tri Dao · Eric Winsor · Zhao Song · Atri Rudra · Christopher Ré

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Online Facility Location with Multiple Advice

Matteo Almanza · Flavio Chierichetti · Silvio Lattanzi · Alessandro Panconesi · Giuseppe Re

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Keeping Your Eye on the Ball: Trajectory Attention in Video Transformers

Mandela Patrick · Dylan Campbell · Yuki Asano · Ishan Misra · Florian Metze · Christoph Feichtenhofer · Andrea Vedaldi · João Henriques

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Batch Active Learning at Scale

Gui Citovsky · Giulia DeSalvo · Claudio Gentile · Lazaros Karydas · Anand Rajagopalan · Afshin Rostamizadeh · Sanjiv Kumar

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Does enforcing fairness mitigate biases caused by subpopulation shift?

Subha Maity · Debarghya Mukherjee · Mikhail Yurochkin · Yuekai Sun

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Laplace Redux - Effortless Bayesian Deep Learning

Erik Daxberger · Agustinus Kristiadi · Alexander Immer · Runa Eschenhagen · Matthias Bauer · Philipp Hennig

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M-FAC: Efficient Matrix-Free Approximations of Second-Order Information

Elias Frantar · Eldar Kurtic · Dan Alistarh

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Neural Scene Flow Prior

Xueqian Li · Jhony Kaesemeyer Pontes · Simon Lucey

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How Well do Feature Visualizations Support Causal Understanding of CNN Activations?

Roland S. Zimmermann · Judy Borowski · Robert Geirhos · Matthias Bethge · Thomas Wallis · Wieland Brendel

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Explanation-based Data Augmentation for Image Classification

Sandareka Wickramanayake · Wynne Hsu · Mong Li Lee

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Making a (Counterfactual) Difference One Rationale at a Time

Mitchell Plyler · Michael Green · Min Chi

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Distributionally Robust Imitation Learning	
Mohammad Ali Bashiri · Brian Ziebart · Xinhua Zhang	In Poster Session 8
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Scalable Neural Data Server: A Data Recommender for Transfer Learning	
Tianshi Cao · Sasha (Alexandre) Doubov · David Acuna · Sanja Fidler	In Poster Session 8
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Johannes Klicpera · Florian Becker · Stephan Günnemann	In Poster Session 8
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SIMILAR: Submodular Information Measures Based Active Learning In Realistic Scenarios	
Suraj Kothawade · Nathan Beck · Krishnateja Killamsetty · Rishabh Iyer	In Poster Session 8
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Localization, Convexity, and Star Aggregation	
Suhas Vijaykumar	In Poster Session 8
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Adversarial Intrinsic Motivation for Reinforcement Learning	
Ishan Durugkar · Mauricio Tec · Scott Niekum · Peter Stone	In Poster Session 8
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Progressive Feature Interaction Search for Deep Sparse Network	
Chen Gao · Yinfeng Li · Quanming Yao · Depeng Jin · Yong Li	In Poster Session 8
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Implicit Bias of SGD for Diagonal Linear Networks: a Provable Benefit of Stochasticity	
Scott Pesme · Lucas Pillaud-Vivien · Nicolas Flammarion	In Poster Session 8
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On Training Implicit Models	
Zhengyang Geng · Xin-Yu Zhang · Shaojie Bai · Yisen Wang · Zhouchen Lin	In Poster Session 8
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Gal Shachaf · Alon Brutzkus · Amir Globerson	In Poster Session 8
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Dilip Arumugam · Benjamin Van Roy	In Poster Session 8
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Stephen Roller · Sainbayar Sukhbaatar · arthur szlam · Jason Weston	In Poster Session 8
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Bahjat Kawar · Gregory Vaksman · Michael Elad	In Poster Session 8
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Charles Packer · Pieter Abbeel · Joseph Gonzalez	In Poster Session 8
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Smoothness Matrices Beat Smoothness Constants: Better Communication Compression Techniques for Distributed Optimization	
Mher Safaryan · Filip Hanzely · Peter Richtarik	In Poster Session 8
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Practical Near Neighbor Search via Group Testing	
Joshua Engels · Benjamin Coleman · Anshumali Shrivastava	In Poster Session 8
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Sequential Algorithms for Testing Closeness of Distributions	
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Visual Adversarial Imitation Learning using Variational Models

Rafael Rafailov · Tianhe Yu · Aravind Rajeswaran · Chelsea Finn

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Towards Unifying Behavioral and Response Diversity for Open-ended Learning in Zero-sum Games

Xiangyu Liu · Hangtian Jia · Ying Wen · Yujing Hu · Yingfeng Chen · Changjie Fan · ZHIPENG HU · Yaodong Yang

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Robustness of Graph Neural Networks at Scale

Simon Geisler · Tobias Schmidt · Hakan Şirin · Daniel Zügner · Aleksandar Bojchevski · Stephan Günnemann

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Dirichlet Energy Constrained Learning for Deep Graph Neural Networks

Kaixiong Zhou · Xiao Huang · Daochen Zha · Rui Chen · Li Li · Soo-Hyun Choi · Xia Hu

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Explainable Semantic Space by Grounding Language to Vision with Cross-Modal Contrastive Learning

Yizhen Zhang · Minkyu Choi · Kuan Han · Zhongming Liu

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A Normative and Biologically Plausible Algorithm for Independent Component Analysis

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Memory-efficient Patch-based Inference for Tiny Deep Learning

Ji Lin · Wei-Ming Chen · Han Cai · Chuang Gan · Song Han

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Reward is enough for convex MDPs

Tom Zahavy · Brendan O'Donoghue · Guillaume Desjardins · Satinder Singh

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Deep Marching Tetrahedra: a Hybrid Representation for High-Resolution 3D Shape Synthesis

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Early-stopped neural networks are consistent

Ziwei Ji · Justin Li · Matus Telgarsky

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A Gaussian Process-Bayesian Bernoulli Mixture Model for Multi-Label Active Learning

Weishi Shi · Dayou Yu · Qi Yu

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Foundations of Symbolic Languages for Model Interpretability

Marcelo Arenas · Daniel Bález · Pablo Barceló · Jorge Pérez · Bernardo Subercaseaux

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Neural Flows: Efficient Alternative to Neural ODEs

Marin Biloš · Johanna Sommer · Syama Sundar Rangapuram · Tim Januschowski · Stephan Günnemann

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On the Power of Differentiable Learning versus PAC and SQ Learning

Emmanuel Abbe · Pritish Kamath · Eran Malach · Colin Sandon · Nathan Srebro

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Learning to Compose Visual Relations

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How Powerful are Performance Predictors in Neural Architecture Search?

Colin White · Arber Zela · Robin Ru · Yang Liu · Frank Hutter

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Concentration inequalities under sub-Gaussian and sub-exponential conditions

Andreas Maurer · Massimiliano Pontil

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Independent Prototype Propagation for Zero-Shot Compositionality

Frank Ruis · Gertjan Burghouts · Doina Bucur

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Learning to Time-Decode in Spiking Neural Networks Through the Information Bottleneck

Nicolas Skatchkovsky · Osvaldo Simeone · Hyeryung Jang

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Bellman-consistent Pessimism for Offline Reinforcement Learning

Tengyang Xie · Ching-An Cheng · Nan Jiang · Paul Mineiro · Alekh Agarwal

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To The Point: Correspondence-driven monocular 3D category reconstruction

Filippos Kokkinos · Iasonas Kokkinos

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Shapley Residuals: Quantifying the limits of the Shapley value for explanations

Indra Kumar · Carlos Scheidegger · Suresh Venkatasubramanian · Sorelle Friedler

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NTopo: Mesh-free Topology Optimization using Implicit Neural Representations

Jonas Zehnder · Yue Li · Stelian Coros · Bernhard Thomaszewski

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Robust Implicit Networks via Non-Euclidean Contractions

Saber Jafarpour · Alexander Davyдов · Anton Proskurnikov · Francesco Bullo

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Near Optimal Policy Optimization via REPS

Aldo Pacchiano · Jonathan N Lee · Peter Bartlett · Ofir Nachum

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Beta-CROWN: Efficient Bound Propagation with Per-neuron Split Constraints for Neural Network Robustness Verification

Shiqi Wang · Huan Zhang · Kaidi Xu · Xue Lin · Suman Jana · Cho-Jui Hsieh · J. Zico Kolter

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Learning Graph Models for Retrosynthesis Prediction

Vignesh Ram Somnath · Charlotte Bunne · Connor Coley · Andreas Krause · Regina Barzilay

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Analytic Study of Families of Spurious Minima in Two-Layer ReLU Neural Networks: A Tale of Symmetry II

Yossi Arjevani · Michael Field

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A Compositional Atlas of Tractable Circuit Operations for Probabilistic Inference

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On Blame Attribution for Accountable Multi-Agent Sequential Decision Making

Stelios Triantafyllou · Adish Singla · Goran Radanovic

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No Regrets for Learning the Prior in Bandits

Soumya Basu · Branislav Kveton · Manzil Zaheer · Csaba Szepesvari

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Fast Projection onto the Capped Simplex with Applications to Sparse Regression in Bioinformatics

Man Shun Ang · Jianzhu Ma · Nianjun Liu · Kun Huang · Yijie Wang

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Tractable Density Estimation on Learned Manifolds with Conformal Embedding Flows

Brendan Ross · Jesse Cresswell

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Bridging the Imitation Gap by Adaptive Insubordination

Luca Weihs · Unnat Jain · Iou-Jen Liu · Jordi Salvador · Svetlana Lazebnik · Aniruddha Kembhavi · Alex Schwing

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Entropic Desired Dynamics for Intrinsic Control

Steven Hansen · Guillaume Desjardins · Kate Baumli · David Warde-Farley · Nicolas Heess · Simon Osindero · Volodymyr Mnih

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Accelerating Quadratic Optimization with Reinforcement Learning

Jeffrey Ichnowski · Paras Jain · Bartolomeo Stellato · Goran Banjac · Michael Luo · Francesco Borrelli · Joseph Gonzalez · Ion Stoica · Ken Goldberg

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Multi-Agent Reinforcement Learning for Active Voltage Control on Power Distribution Networks

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Coresets for Clustering with Missing Values

Vladimir Braverman · Shaofeng Jiang · Robert Krauthgamer · Xuan Wu

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Per-Pixel Classification is Not All You Need for Semantic Segmentation

Bowen Cheng · Alex Schwing · Alexander Kirillov

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The functional specialization of visual cortex emerges from training parallel pathways with self-supervised predictive learning

Shahab Bakhtiari · Patrick Mineault · Timothy Lillicrap · Christopher Pack · Blake Richards

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TransformerFusion: Monocular RGB Scene Reconstruction using Transformers

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Hierarchical Skills for Efficient Exploration

Jonas Gehring · Gabriel Synnaeve · Andreas Krause · Nicolas Usunier

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On the Expressivity of Markov Reward

David Abel · Will Dabney · Anna Harutyunyan · Mark Ho · Michael Littman · Doina Precup · Satinder Singh

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Support Recovery of Sparse Signals from a Mixture of Linear Measurements

Soumyabrata Pal · Arya Mazumdar · Venkata Gandikota

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Rethinking the Pruning Criteria for Convolutional Neural Network

Zhongzhan Huang · Wenqi Shao · Xinjiang Wang · Liang Lin · Ping Luo

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Heavy Tails in SGD and Compressibility of Overparametrized Neural Networks

Melih Barsbey · Milad Sefidgaran · Murat Erdogdu · Gaël Richard · Umut Simsekli

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Improved Coresets and Sublinear Algorithms for Power Means in Euclidean Spaces

Vincent Cohen-Addad · David Saulpic · Chris Schwiegelshohn

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Noise2Score: Tweedie's Approach to Self-Supervised Image Denoising without Clean Images

Kwanyoung Kim · Jong Chul Ye

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Adversarial Feature Desensitization

Pouya Bashivan · Reza Bayat · Adam Ibrahim · Kartik Ahuja · Mojtaba Faramarzi · Touraj Laleh · Blake Richards In Poster Session 8
· Irina Rish

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Catch-A-Waveform: Learning to Generate Audio from a Single Short Example

Gal Greshler · Tamar Shaham · Tomer Michaeli

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Curriculum Design for Teaching via Demonstrations: Theory and Applications

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Implicit Regularization in Matrix Sensing via Mirror Descent

Fan Wu · Patrick Rebeschini

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Efficient Online Estimation of Causal Effects by Deciding What to Observe

Shantanu Gupta · Zachary Lipton · David Childers

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Risk Monotonicity in Statistical Learning

Zakaria Mhammedi

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On Contrastive Representations of Stochastic Processes

Emile Mathieu · Adam Foster · Yee Teh

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On the Existence of The Adversarial Bayes Classifier

Pranjal Awasthi · Natalie Frank · Mehryar Mohri

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Learning Fast-Inference Bayesian Networks

Vaidyanathan Peruvemba Ramaswamy · Stefan Szeider

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Moshpit SGD: Communication-Efficient Decentralized Training on Heterogeneous Unreliable Devices

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Universal Rate-Distortion-Perception Representations for Lossy Compression

George Zhang · Jingjing Qian · Jun Chen · Ashish Khisti

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Can contrastive learning avoid shortcut solutions?

Joshua Robinson · Li Sun · Ke Yu · Kayhan Batmanghelich · Stefanie Jegelka · Suvrit Sra

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Active clustering for labeling training data

Quentin Lutz · Elie de Panafieu · Maya Stein · Alex Scott

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Towards Sharper Generalization Bounds for Structured Prediction

Shaojie Li · Yong Liu

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The Utility of Explainable AI in Ad Hoc Human-Machine Teaming

Rohan Paleja · Muyleng Ghuy · Nadun Ranawaka Arachchige · Reed Jensen · Matthew Gombolay

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Generic Neural Architecture Search via Regression

Yuhong Li · Cong Hao · Pan Li · Jinjun Xiong · Deming Chen

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Solving Graph-based Public Goods Games with Tree Search and Imitation Learning

Victor-Alexandru Darvariu · Stephen Hailes · Mirco Musolesi

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Directed Graph Contrastive Learning

Zekun Tong · Yuxuan Liang · Henghui Ding · Yongxing Dai · Xinke Li · Changhu Wang

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Contrastive Learning for Neural Topic Model

Thong Nguyen · Anh Tuan Luu

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Private Non-smooth ERM and SCO in Subquadratic Steps

Janardhan Kulkarni · Yin Tat Lee · Daogao Liu

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Constrained Two-step Look-Ahead Bayesian Optimization

Yunxiang Zhang · Xiangyu Zhang · Peter Frazier

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Parametric Complexity Bounds for Approximating PDEs with Neural Networks

Tanya Marwah · Zachary Lipton · Andrej Risteski

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Multi-view Contrastive Graph Clustering

ErLin Pan · Zhao Kang

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On Locality of Local Explanation Models

Sahra Ghalebikesabi · Lucile Ter-Minassian · Karla DiazOrdaz · Chris C Holmes

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Exponential Separation between Two Learning Models and Adversarial Robustness

Grzegorz Gluch · Ruediger Urbanke

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Going Beyond Linear Transformers with Recurrent Fast Weight Programmers

Kazuki Irie · Imanol Schlag · Róbert Csordás · Jürgen Schmidhuber

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A Provably Efficient Model-Free Posterior Sampling Method for Episodic Reinforcement Learning

Christoph Dann · Mehryar Mohri · Tong Zhang · Julian Zimmert

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Joint Semantic Mining for Weakly Supervised RGB-D Salient Object Detection

Jingjing Li · Wei Ji · Qi Bi · Cheng Yan · Miao Zhang · Yongri Piao · Huchuan Lu · Li cheng

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Two Sides of Meta-Learning Evaluation: In vs. Out of Distribution

Amrith Setlur · Oscar Li · Virginia Smith

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T-LoHo: A Bayesian Regularization Model for Structured Sparsity and Smoothness on Graphs

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Reinforcement Learning in Newcomblike Environments

James Bell · Linda Linsefors · Caspar Oesterheld · Joar Skalse

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Regularization in ResNet with Stochastic Depth

Soufiane Hayou · Fadhel Ayed

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An Uncertainty Principle is a Price of Privacy-Preserving Microdata

John Abowd · Robert Ashmead · Ryan Cumings-Menon · Simson Garfinkel · Daniel Kifer · Philip Leclerc · William Sexton · Ashley Simpson · Christine Task · Pavel Zhuravlev

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Active Learning of Convex Halfspaces on Graphs

Maximilian Thiessen · Thomas Gaertner

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ASSANet: An Anisotropic Separable Set Abstraction for Efficient Point Cloud Representation Learning

Guocheng Qian · Hasan Hammoud · Guohao Li · Ali Thabet · Bernard Ghanem

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Algorithmic Instabilities of Accelerated Gradient Descent

Amit Attia · Tomer Koren

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Reinforcement Learning with State Observation Costs in Action-Contingent Noiselessly Observable Markov Decision Processes

HyunJi Alex Nam · Scott Fleming · Emma Brunskill

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CoFrNets: Interpretable Neural Architecture Inspired by Continued Fractions

Isha Puri · Amit Dhurandhar · Tejaswini Pedapati · Karthikeyan Shanmugam · Dennis Wei · Kush Varshney In Poster Session 8

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Towards Hyperparameter-free Policy Selection for Offline Reinforcement Learning

Siyuan Zhang · Nan Jiang In Poster Session 8

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Contrastive Active Inference

Pietro Mazzaglia · Tim Verbelen · Bart Dhoedt In Poster Session 8

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High Probability Complexity Bounds for Line Search Based on Stochastic Oracles

Billy Jin · Katya Scheinberg · Miaolan Xie In Poster Session 8

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Beyond Value-Function Gaps: Improved Instance-Dependent Regret Bounds for Episodic Reinforcement Learning

Christoph Dann · Teodor Vanislavov Marinov · Mehryar Mohri · Julian Zimmert In Poster Session 8

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To Beam Or Not To Beam: That is a Question of Cooperation for Language GANs

Thomas Scialom · Paul-Alexis Dray · Jacopo Staiano · Sylvain Lamprier · Benjamin Piwowarski In Poster Session 8

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3D Siamese Voxel-to-BEV Tracker for Sparse Point Clouds

Le Hui · Lingpeng Wang · Mingmei Cheng · Jin Xie · Jian Yang In Poster Session 8

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Small random initialization is akin to spectral learning: Optimization and generalization guarantees for overparameterized low-rank matrix reconstruction

Dominik Stöger · Mahdi Soltanolkotabi In Poster Session 8

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DNN-based Topology Optimisation: Spatial Invariance and Neural Tangent Kernel

Benjamin Dupuis · Arthur Jacot In Poster Session 8

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CROCS: Clustering and Retrieval of Cardiac Signals Based on Patient Disease Class, Sex, and Age

Dani Kiyasseh · Tingting Zhu · David Clifton

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Shift Invariance Can Reduce Adversarial Robustness

Vasu Singla · Songwei Ge · Basri Ronen · David Jacobs

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On Linear Stability of SGD and Input-Smoothness of Neural Networks

Chao Ma · Lexing Ying

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Estimating the Unique Information of Continuous Variables

Ari Pakman · Amin Nejatbakhsh · Dar Gilboa · Abdullah Makkeh · Luca Mazzucato · Michael Wibral · Elad Schneidman

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Explaining Latent Representations with a Corpus of Examples

Jonathan Crabbe · Zhaozhi Qian · Fergus Imrie · Mihaela van der Schaar

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Emergent Communication of Generalizations

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Label consistency in overfitted generalized k -means

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LSH-SMILE: Locality Sensitive Hashing Accelerated Simulation and Learning

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Topological Relational Learning on Graphs

Yuzhou Chen · Baris Coskunuzer · Yulia Gel

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Combinatorial Optimization for Panoptic Segmentation: A Fully Differentiable Approach

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Efficient Generalization with Distributionally Robust Learning

Soumyadip Ghosh · Mark Squillante · Ebisa Wollega

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Multi-Objective SPIBB: Seldonian Offline Policy Improvement with Safety Constraints in Finite MDPs

harsh satija · Philip Thomas · Joelle Pineau · Romain Laroche

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 α -IoU: A Family of Power Intersection over Union Losses for Bounding Box Regression

JIABO HE · Sarah Erfani · Xingjun Ma · James Bailey · Ying Chi · Xian-Sheng Hua

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When Are Solutions Connected in Deep Networks?

Quynh Nguyen · Pierre Bréchet · Marco Mondelli

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Learning latent causal graphs via mixture oracles

Bohdan Kivva · Goutham Rajendran · Pradeep Ravikumar · Bryon Aragam

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Algorithmic stability and generalization of an unsupervised feature selection algorithm

xinxing wu · Qiang Cheng

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Invariant Causal Imitation Learning for Generalizable Policies

Ioana Bica · Daniel Jarrett · Mihaela van der Schaar

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On the Power of Edge Independent Graph Models

Sudhanshu Chanpuriya · Cameron Musco · Konstantinos Sotiropoulos · Charalampos Tsourakakis

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Damped Anderson Mixing for Deep Reinforcement Learning: Acceleration, Convergence, and Stabilization

Ke Sun · Yafei Wang · Yi Liu · yingnan zhao · Bo Pan · Shangling Jui · Bei Jiang · Linglong Kong

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Improving Computational Efficiency in Visual Reinforcement Learning via Stored Embeddings

Lili Chen · Kimin Lee · Aravind Srinivas · Pieter Abbeel

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RMM: Reinforced Memory Management for Class-Incremental Learning

Yaoyao Liu · Bernt Schiele · Qianru Sun

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On the Frequency Bias of Generative Models

Katja Schwarz · Yiyi Liao · Andreas Geiger

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Space-time Mixing Attention for Video Transformer

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Better Algorithms for Individually Fair k -Clustering

Maryam Negahbani · Deeparnab Chakrabarty

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Local Signal Adaptivity: Provable Feature Learning in Neural Networks Beyond Kernels

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Improved Regularization and Robustness for Fine-tuning in Neural Networks

Dongyue Li · Hongyang Zhang

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Detecting Anomalous Event Sequences with Temporal Point Processes

Oleksandr Shchur · Ali Caner Turkmen · Tim Januschowski · Jan Gasthaus · Stephan Günnemann

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Learning to Draw: Emergent Communication through Sketching

Daniela Mihai · Jonathon Hare

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COHESIV: Contrastive Object and Hand Embedding Segmentation In Video

Dandan Shan · Richard Higgins · David Fouhey

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Uniform Concentration Bounds toward a Unified Framework for Robust Clustering

Debolina Paul · Saptarshi Chakraborty · Swagatam Das · Jason Xu

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Accelerating Robotic Reinforcement Learning via Parameterized Action Primitives

Murtaza Dalal · Deepak Pathak · Russ Salakhutdinov

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Optimization-Based Algebraic Multigrid Coarsening Using Reinforcement Learning

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Invertible DenseNets with Concatenated LipSwish

Yura Perugachi-Diaz · Jakub Tomczak · Sandjai Bhulai

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HNPE: Leveraging Global Parameters for Neural Posterior Estimation

Pedro Rodrigues · Thomas Moreau · Gilles Louppe · Alexandre Gramfort

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Distributed Deep Learning In Open Collaborations

Michael Diskin · Alexey Bukhtiyarov · Max Ryabinin · Lucile Saulnier · quentin Ihoest · Anton Sinitzin · Dmitry Popov · Dmitry V. Pyrkin · Maxim Kashirin · Alexander Borzunov · Albert Villanova del Moral · Denis Mazur · Ilia Kobelev · Yacine Jernite · Thomas Wolf · Gennady Pekhimenko

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Designing Counterfactual Generators using Deep Model Inversion

Jayaraman Thiagarajan · Vivek Sivaraman Narayanaswamy · Deeptha Rajan · Jia Liang · Akshay Chaudhari · Andreas Spanias

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Square Root Principal Component Pursuit: Tuning-Free Noisy Robust Matrix Recovery

Junhui Zhang · Jingkai Yan · John Wright

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Adversarial Training Helps Transfer Learning via Better Representations

Zhun Deng · Linjun Zhang · Kailas Vodrahalli · Kenji Kawaguchi · James Zou

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Explicable Reward Design for Reinforcement Learning Agents

Rati Devidze · Goran Radanovic · Parameswaran Kamalaruban · Adish Singla

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An Information-theoretic Approach to Distribution Shifts

Marco Federici · Ryota Tomioka · Patrick Forré

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Nearly-Tight and Oblivious Algorithms for Explainable Clustering

Buddhima Gamlath · Xinrui Jia · Adam Polak · Ola Svensson

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Conditional Generation Using Polynomial Expansions

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Is Automated Topic Model Evaluation Broken? The Incoherence of Coherence

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Towards Lower Bounds on the Depth of ReLU Neural Networks

Christoph Hertrich · Amitabh Basu · Marco Di Summa · Martin Skutella

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Hierarchical Clustering: $O(1)$ -Approximation for Well-Clustered Graphs

Bogdan-Adrian Manghiuc · He Sun

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On Plasticity, Invariance, and Mutually Frozen Weights in Sequential Task Learning

Julian Zilly · Alessandro Achille · Andrea Censi · Emilio Frazzoli

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Compressing Neural Networks: Towards Determining the Optimal Layer-wise

Decomposition

Lucas Liebenwein · Alaa Maalouf · Dan Feldman · Daniela Rus

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Adaptive Proximal Gradient Methods for Structured Neural Networks

Jihun Yun · Aurelie Lozano · Eunho Yang

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ResT: An Efficient Transformer for Visual Recognition

Qinglong Zhang · Yu-Bin Yang

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SOPE: Spectrum of Off-Policy Estimators

Christina Yuan · Yash Chandak · Stephen Giguere · Philip Thomas · Scott Niekum

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Dual Parameterization of Sparse Variational Gaussian Processes

Vincent ADAM · Paul Chang · Mohammad Emtiyaz Khan · Arno Solin

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When False Positive is Intolerant: End-to-End Optimization with Low FPR for Multipartite Ranking

Peisong Wen · Qianqian Xu · Zhiyong Yang · Yuan He · Qingming Huang

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Averaging on the Bures-Wasserstein manifold: dimension-free convergence of gradient descent

Jason Altschuler · Sinho Chewi · Patrik R Gerber · Austin Stromme

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Multi-Facet Clustering Variational Autoencoders

Fabian Falck · Haoting Zhang · Matthew Willetts · George Nicholson · Christopher Yau · Chris C Holmes

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The Sensory Neuron as a Transformer: Permutation-Invariant Neural Networks for Reinforcement Learning

Yujin Tang · David Ha

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Learning to Ground Multi-Agent Communication with Autoencoders

Toru Lin · Jacob Huh · Christopher Stauffer · Ser Nam Lim · Phillip Isola

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Encoding Spatial Distribution of Convolutional Features for Texture Representation

Yong Xu · Feng Li · Zhile Chen · Jinxiu Liang · Yuhui Quan

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Convergence of adaptive algorithms for constrained weakly convex optimization

Ahmet Alacaoglu · Yura Malitsky · Volkan Cevher

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Scaling up Continuous-Time Markov Chains Helps Resolve Underspecification

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Towards Deeper Deep Reinforcement Learning with Spectral Normalization

Nils Bjorck · Carla Gomes · Kilian Weinberger

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Fine-Grained Neural Network Explanation by Identifying Input Features with Predictive Information

Yang Zhang · Ashkan Khakzar · Yawei Li · Azade Farshad · Seong Tae Kim · Nassir Navab

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Risk-averse Heteroscedastic Bayesian Optimization

Anastasia Makarova · Ilnura Usmanova · Ilija Bogunovic · Andreas Krause

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Leveraging Recursive Gumbel-Max Trick for Approximate Inference in Combinatorial Spaces

Kirill Struminsky · Artyom Gadetsky · Denis Rakitin · Daniil Karpushkin · Dmitry Vetrov

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Learning Knowledge Graph-based World Models of Textual Environments

Prithviraj Ammanabrolu · Mark Riedl

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Federated Linear Contextual Bandits

Ruiquan Huang · Weiqiang Wu · Jing Yang · Cong Shen

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Structured Denoising Diffusion Models in Discrete State-Spaces

Jacob Austin · Daniel D. Johnson · Jonathan Ho · Daniel Tarlow · Rianne van den Berg

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Luna: Linear Unified Nested Attention

Xuezhe Ma · Xiang Kong · Sinong Wang · Chunting Zhou · Jonathan May · Hao Ma · Luke Zettlemoyer

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Local Explanation of Dialogue Response Generation

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Turing Completeness of Bounded-Precision Recurrent Neural Networks

Stephen Chung · Hava Siegelmann

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Novel Visual Category Discovery with Dual Ranking Statistics and Mutual Knowledge

Distillation

Bingchen Zhao · Kai Han

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Sparse Flows: Pruning Continuous-depth Models

Lucas Liebenwein · Ramin Hasani · Alexander Amini · Daniela Rus

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You Never Cluster Alone

Yuming Shen · Ziyi Shen · Menghan Wang · Jie Qin · Philip Torr · Ling Shao

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The Effect of the Intrinsic Dimension on the Generalization of Quadratic Classifiers

Fabian Latorre · Leello Tadesse Dadi · Paul Rolland · Volkan Cevher

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Improving Transferability of Representations via Augmentation-Aware Self-Supervision

Hankook Lee · Kibok Lee · Kimin Lee · Honglak Lee · Jinwoo Shin

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Three-dimensional spike localization and improved motion correction for Neuropixels recordings

Julien Boussard · Erdem Varol · Hyun Dong Lee · Nishchal Dethé · Liam Paninski

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End-to-End Training of Multi-Document Reader and Retriever for Open-Domain Question Answering

Devendra Singh · Siva Reddy · Will Hamilton · Chris Dyer · Dani Yogatama

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Tracking Without Re-recognition in Humans and Machines

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Strategic Behavior is Bliss: Iterative Voting Improves Social Welfare

Joshua Kavner · Lirong Xia

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Self-Supervised Bug Detection and Repair

Miltiadis Allamanis · Henry Jackson-Flux · Marc Brockschmidt

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DROID-SLAM: Deep Visual SLAM for Monocular, Stereo, and RGB-D Cameras

Zachary Teed · Jia Deng

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Capacity and Bias of Learned Geometric Embeddings for Directed Graphs

Michael Boratko · Dongxu Zhang · Nicholas Monath · Luke Vilnis · Kenneth L Clarkson · Andrew McCallum

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Can You Learn an Algorithm? Generalizing from Easy to Hard Problems with Recurrent Networks

Avi Schwarzschild · Eitan Borgnia · Arjun Gupta · Furong Huang · Uzi Vishkin · Micah Goldblum · Tom Goldstein In Poster Session 8

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Interactive Label Cleaning with Example-based Explanations

Stefano Teso · Andrea Bontempelli · Fausto Giunchiglia · Andrea Passerini

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ParK: Sound and Efficient Kernel Ridge Regression by Feature Space Partitions

Luigi Carratino · Stefano Vigogna · Daniele Calandriello · Lorenzo Rosasco

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Relative Flatness and Generalization

Henning Petzka · Michael Kamp · Linara Adilova · Cristian Sminchisescu · Mario Boley

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SLAPS: Self-Supervision Improves Structure Learning for Graph Neural Networks

Bahare Fatemi · Layla El Asri · Seyed Mehran Kazemi

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Parallel and Efficient Hierarchical k-Median Clustering

Vincent Cohen-Addad · Silvio Lattanzi · Ashkan Norouzi-Fard · Christian Sohler · Ola Svensson

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Hit and Lead Discovery with Explorative RL and Fragment-based Molecule Generation

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Large-Scale Unsupervised Object Discovery

Van Huy Vo · Elena Sizikova · Cordelia Schmid · Patrick Pérez · Jean Ponce

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Robust Contrastive Learning Using Negative Samples with Diminished Semantics

Songwei Ge · Shlok Mishra · Chun-Liang Li · Haohan Wang · David Jacobs

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Edge Representation Learning with Hypergraphs

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SGD: The Role of Implicit Regularization, Batch-size and Multiple-epochs

Ayush Sekhari · Karthik Sridharan · Satyen Kale

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Communication-efficient SGD: From Local SGD to One-Shot Averaging

Artin Spiridonoff · Alex Olshevsky · Yannis Paschalidis

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ErrorCompensatedX: error compensation for variance reduced algorithms

Hanlin Tang · Yao Li · Ji Liu · Ming Yan

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Task-Agnostic Undesirable Feature Deactivation Using Out-of-Distribution Data

Dongmin Park · Hwanjun Song · Minseok Kim · Jae-Gil Lee

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SyMetric: Measuring the Quality of Learnt Hamiltonian Dynamics Inferred from Vision

Irina Higgins · Peter Wirsberger · Andrew Jaegle · Aleksandar Botev

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Think Big, Teach Small: Do Language Models Distil Occam's Razor?

Gonzalo Jaimovich-Lopez · David Castellano Falcón · Cesar Ferri · José Hernández-Orallo

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Predicting Deep Neural Network Generalization with Perturbation Response Curves

Yair Schiff · Brian Quanz · Payel Das · Pin-Yu Chen

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Sparse Training via Boosting Pruning Plasticity with Neuroregeneration

Shiwei Liu · Tianlong Chen · Xiaohan Chen · Zahra Atashgahi · Lu Yin · Huanyu Kou · Li Shen · Mykola Pechenizkiy · Zhangyang Wang · Decebal Constantin Mocanu

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Influence Patterns for Explaining Information Flow in BERT

Kaiji Lu · Zifan Wang · Piotr Mardziel · Anupam Datta

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On the Validity of Modeling SGD with Stochastic Differential Equations (SDEs)

Zhiyuan Li · Sadhika Malladi · Sanjeev Arora

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No RL, No Simulation: Learning to Navigate without Navigating

Meera Hahn · Devendra Singh Chaplot · Shubham Tulsiani · Mustafa Mukadam · James Rehg · Abhinav Gupta In Poster Session 8

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DSelect-k: Differentiable Selection in the Mixture of Experts with Applications to Multi-Task Learning

Hussein Hazimeh · Zhe Zhao · Aakanksha Chowdhery · Maheswaran Sathiamoorthy · Yihua Chen · Rahul Mazumder · Lichan Hong · Ed Chi

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KALE Flow: A Relaxed KL Gradient Flow for Probabilities with Disjoint Support

Pierre Glaser · Michael Arbel · Arthur Gretton

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Antipodes of Label Differential Privacy: PATE and ALIBI

Mani Malek Esmaeili · Ilya Mironov · Karthik Prasad · Igor Shilov · Florian Tramer

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Towards Robust and Reliable Algorithmic Recourse

Sohini Upadhyay · Shalmali Joshi · Himabindu Lakkaraju

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End-to-end reconstruction meets data-driven regularization for inverse problems

Subhadip Mukherjee · Marcello Carioni · Ozan Öktem · Carola-Bibiane Schönlieb

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Intriguing Properties of Contrastive Losses

Ting Chen · Calvin Luo · Lala Li

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Clustering Effect of Adversarial Robust Models

Yang Bai · Xin Yan · Yong Jiang · Shu-Tao Xia · Yisen Wang

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Directional Message Passing on Molecular Graphs via Synthetic Coordinates

Johannes Klicpera · Chandan Yeshwanth · Stephan Günnemann

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Last iterate convergence of SGD for Least-Squares in the Interpolation regime.

Aditya Vardhan Varre · Loucas Pillaud-Vivien · Nicolas Flammarion

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The Out-of-Distribution Problem in Explainability and Search Methods for Feature

Importance Explanations

Peter Hase · Harry Xie · Mohit Bansal

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Sparse is Enough in Scaling Transformers

Sebastian Jaszczerzak · Aakanksha Chowdhery · Afroz Mohiuddin · LUKASZ KAISER · Wojciech Gajewski · Henryk Michalewski · Jonni Kanerva

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Consistency Regularization for Variational Auto-Encoders

Samarth Sinha · Adji Bousso Dieng

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Drop, Swap, and Generate: A Self-Supervised Approach for Generating Neural Activity

Ran Liu · Mehdi Azabou · Max Dabagia · Chi-Heng Lin · Mohammad Gheshlaghi Azar · Keith Hengen · Michal Valko · Eva Dyer

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Why Do Better Loss Functions Lead to Less Transferable Features?

Simon Kornblith · Ting Chen · Honglak Lee · Mohammad Norouzi

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Online Active Learning with Surrogate Loss Functions

Giulia DeSalvo · Claudio Gentile · Tobias Sommer Thune

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Speedy Performance Estimation for Neural Architecture Search

Robin Ru · Clare Lyle · Lisa Schut · Miroslav Fil · Mark van der Wilk · Yarin Gal

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Sparse Uncertainty Representation in Deep Learning with Inducing Weights

Hippolyt Ritter · Martin Kukla · Cheng Zhang · Yingzhen Li

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