Wed Dec 5th

Reproducible, Reusable, and Robust Reinforcement Learning

Wed Dec 5th 08:30 – 09:20 AM @ Rooms 220 CDE
Invited Talk (Posner Lecture) – In Wed Invited Talk 1
Joelle Pineau

Coffee Break

Wed Dec 5th 09:20 – 09:45 AM @
Break –

In Wed Track 1 – Session 1

Wed Dec 5th 09:45 – 09:50 AM @ Room 220 CD – Wed Dec 5th 10:40 – 10:45 AM @ Room 220 CD

A Smoothed Analysis of the Greedy Algorithm for the Linear Contextual Bandit Problem

Wed Dec 5th 09:45 – 09:50 AM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 1
Sampath Kannan · Jamie Morgenstern · Aaron Roth · Bo Waggoner · Zhiwei Steven Wu
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #159

Almost Optimal Algorithms for Linear Stochastic Bandits with Heavy-Tailed Payoffs

Wed Dec 5th 09:50 – 09:55 AM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 1
Han Shao · Xiaotian Yu · Irwin King · Michael Lyu
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #158

End-to-End Differentiable Physics for Learning and Control

Wed Dec 5th 09:55 – 10:00 AM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 1
Filipe de Avila Belbute-Peres · Kevin Smith · Kelsey Allen · Josh Tenenbaum · J. Zico Kolter
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #38

Near Optimal Exploration-Exploitation in Non-Communicating Markov Decision Processes

Wed Dec 5th 10:00 – 10:05 AM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 1
Ronan Fruit · Matteo Pirotta · Alessandro Lazaric
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #161

Exploration in Structured Reinforcement Learning

Wed Dec 5th 10:05 – 10:20 AM @ Room 220 CD
Oral – In Wed Track 1 – Session 1
Jungseul Ok · Alexandre Proutiere · Damianos Tranos
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #160

Acceleration through Optimistic No-Regret Dynamics

Wed Dec 5th 10:20 – 10:25 AM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 1
Jun-Kun Wang · Jacob Abernethy
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #156

On Oracle-Efficient PAC RL with Rich Observations

Wed Dec 5th 10:25 – 10:30 AM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 1
Christoph Dann · Nan Jiang · Akshay Krishnamurthy · Alekh Agarwal · John Langford · Robert Schapire
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #111

Constant Regret, Generalized Mixability, and Mirror Descent

Wed Dec 5th 10:30 – 10:35 AM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 1
Zakaria Mhammedi · Robert Williamson
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #96

Efficient Online Portfolio with Logarithmic Regret

Wed Dec 5th 10:35 – 10:40 AM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 1
Haipeng Luo · Chen-Yu Wei · Kai Zheng
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #157

Solving Large Sequential Games with the Excessive Gap Technique

Wed Dec 5th 10:40 – 10:45 AM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 1
Christian Kroer · Gabriele Farina · Tuomas Sandholm
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #77

In Wed Track 2 – Session 1

Wed Dec 5th 09:45 – 09:50 AM @ Room 220 E – Wed Dec 5th 10:40 – 10:45 AM @ Room 220 E

Deep Network for the Integrated 3D Sensing of Multiple People in Natural Images

Wed Dec 5th 09:45 – 09:50 AM @ Room 220 E
Spotlight – In Wed Track 2 – Session 1
Andrei Zanfir · Elisabeta Marinoiu · Mihai Zanfir · Alin-Ionut Popa · Cristian Sminchisescu
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #120

Delta-encoder: an effective sample synthesis method for few-shot object recognition

Wed Dec 5th 09:50 – 09:55 AM @ Room 220 E
Spotlight – In Wed Track 2 – Session 1
Eli Schwartz · Leonid Karlinsky · Joseph Shtok · Sivan Harary · Mattias Marder · Abhishek Kumar · Rogerio Feris · Raja Giryes · Alex Bronstein
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #25

Text-Adaptive Generative Adversarial Networks: Manipulating Images with Natural Language

Wed Dec 5th 09:55 – 10:00 AM @ Room 220 E
Spotlight – In Wed Track 2 – Session 1
Seonghyeon Nam · Yunji Kim · Seon Joo Kim
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #126

Neighbourhood Consensus Networks

Wed Dec 5th 10:00 – 10:05 AM @ Room 220 E
Spotlight – In Wed Track 2 – Session 1
Ignacio Rocco · Mircea Cimpoi · Relja Arandjelovi? · Akihiko Torii · Tomas Pajdla · Josef Sivic
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #118

Visual Memory for Robust Path Following

Wed Dec 5th 10:05 – 10:20 AM @ Room 220 E
Oral – In Wed Track 2 – Session 1
Ashish Kumar · Saurabh Gupta · David Fouhey · Sergey Levine · Jitendra Malik
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #122

Recurrent Transformer Networks for Semantic Correspondence

Wed Dec 5th 10:20 – 10:25 AM @ Room 220 E
Spotlight – In Wed Track 2 – Session 1
Seungryong Kim · Stephen Lin · SANG RYUL JEON · Dongbo Min · Kwanghoon Sohn
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #119

Sequential Attend, Infer, Repeat: Generative Modelling of Moving Objects

Wed Dec 5th 10:25 – 10:30 AM @ Room 220 E
Spotlight – In Wed Track 2 – Session 1
Adam Kosiorek · Hyunjik Kim · Yee Whye Teh · Ingmar Posner
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #24

Sanity Checks for Saliency Maps

Wed Dec 5th 10:30 – 10:35 AM @ Room 220 E
Spotlight – In Wed Track 2 – Session 1
Julius Adebayo · Justin Gilmer · Michael Muelly · Ian Goodfellow · Moritz Hardt · Been Kim
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #30

A Probabilistic U-Net for Segmentation of Ambiguous Images

Wed Dec 5th 10:35 – 10:40 AM @ Room 220 E
Spotlight – In Wed Track 2 – Session 1
Simon Kohl · Bernardino Romera-Paredes · Clemens Meyer · Jeffrey De Fauw · Joseph R. Ledsam · Klaus Maier-Hein · S. M. Ali Eslami · Danilo Jimenez Rezende · Olaf Ronneberger
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #127

Virtual Class Enhanced Discriminative Embedding Learning

Wed Dec 5th 10:40 – 10:45 AM @ Room 220 E
Spotlight – In Wed Track 2 – Session 1
Binghui Chen · Weihong Deng · Haifeng Shen
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #130

In Wed Track 3 – Session 1

Wed Dec 5th 09:45 – 09:50 AM @ Room 517 CD – Wed Dec 5th 10:40 – 10:45 AM @ Room 517 CD

Revisiting (ϵ, γ, τ)-similarity learning for domain adaptation

Wed Dec 5th 09:45 – 09:50 AM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 1
Sofiane Dhouib · Ievgen Redko
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #152

Leveraged volume sampling for linear regression

Wed Dec 5th 09:50 – 09:55 AM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 1
Michal Derezinski · Manfred Warmuth · Daniel Hsu
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #151

Synthesize Policies for Transfer and Adaptation across Tasks and Environments

Wed Dec 5th 09:55 – 10:00 AM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 1
Hexiang Hu · Liyu Chen · Boqing Gong · Fei Sha
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #155

Sublinear Time Low-Rank Approximation of Distance Matrices

Wed Dec 5th 10:00 – 10:05 AM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 1
Ainesh Bakshi · David Woodruff
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #150

Nearly tight sample complexity bounds for learning mixtures of Gaussians via sample compression schemes

Wed Dec 5th 10:05 – 10:20 AM @ Room 517 CD
Oral – In Wed Track 3 – Session 1
Hassan Ashtiani · Shai Ben-David · Nick Harvey · Christopher Liaw · Abbas Mehrabian · Yaniv Plan
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #100

Minimax Statistical Learning with Wasserstein distances

Wed Dec 5th 10:20 – 10:25 AM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 1
Jaeho Lee · Maxim Raginsky
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #86

Generalization Bounds for Uniformly Stable Algorithms

Wed Dec 5th 10:25 – 10:30 AM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 1
Vitaly Feldman · Jan Vondrak
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #85

A loss framework for calibrated anomaly detection

Wed Dec 5th 10:30 – 10:35 AM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 1
Aditya Menon · Robert Williamson
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #110

Sharp Bounds for Generalized Uniformity Testing

Wed Dec 5th 10:35 – 10:40 AM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 1
Ilias Diakonikolas · Daniel M. Kane · Alistair Stewart
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #92

Convex Elicitation of Continuous Properties

Wed Dec 5th 10:40 – 10:45 AM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 1
Jessica Finocchiaro · Rafael Frongillo
Poster Wed Dec 5th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #73

In Wed Demonstrations

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D7 – Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D6

Multi-Word Imputation and Sentence Expansion

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D7
Demonstration – In Wed Demonstrations
Osman Ramadan · Douglas Orr · Dmitry Stratiychuk · B?a?ej Czapp

Automatic Curriculum Generation Applied to Teaching Novices a Short Bach Piano Segment

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D10
Demonstration – In Wed Demonstrations
Emma Brunskill · Tong Mu · Karan Goel · Jonathan Bragg

RieszNets: Accurate Real-Time 2D/3D Image Super-Resolution

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D4
Demonstration – In Wed Demonstrations
Saarthak Sachdeva · Mohnish Chakravarti

Autonomous robotic manipulation with a desktop research platform

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D8
Demonstration – In Wed Demonstrations
Jonathan Long · Brandon Pereira · Max Reynolds · Rahul Rawat

Play Imperfect Information Games against Neural Networks

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D3
Demonstration – In Wed Demonstrations
Andy C Kitchen · Michela Benedetti · Hon Weng Chong

PatentAI: IP Infringement Detection with Enhanced Paraphrase Identification

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510
Demonstration – In Wed Demonstrations
Youssef Drissi · Karthikeyan Natesan Ramamurthy · Prasanna Sattigeri

BigBlueBot: A Demonstration of How to Detect Egregious Conversations with Chatbots

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D1
Demonstration – In Wed Demonstrations
Casey Dugan · Justin D Weisz · Narendra Nath Joshi · Ingrid Lange · J Johnson · Mohit Jain · Werner Geyer

Perception, sensing, motion planning and robot control using AI for automated feeding of upper-extremity mobility impaired people

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D2
Demonstration – In Wed Demonstrations
Tapomayukh Bhattacharjee · Daniel Gallenberger · David Dubois · Siddhartha Srinivasa · Louis L'?cuyer-Lapierre

A Cooperative Visually Grounded Dialogue Game with a Humanoid Robot

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D9
Demonstration – In Wed Demonstrations
Jordan Prince Tremblay · Ismael Balafrej · Felix Labelle · F?lix Martel-Denis · Eric Matte · Julien Chouinard-Beaupr? · Adam Letourneau · Antoine Mercier-Nicol · Simon Brodeur · Fran?ois Ferland · Jean ROUAT

Deep Reinforcement Learning for Online Order Dispatching and Driver Repositioning in Ride-sharing

Wed Dec 5th 10:45 AM – 07:30 PM @ Room 510 ABCD #D6
Demonstration – In Wed Demonstrations
Zhiwei Qin · Xiaocheng Tang · yan jiao · Chenxi Wang

Investigations into the Human-AI Trust Phenomenon

Wed Dec 5th 02:15 – 03:05 PM @ Rooms 220 CDE
Invited Talk – In Wed Invited Talk 2
Ayanna Howard

Coffee Break

Wed Dec 5th 03:05 – 03:30 PM @
Break –

In Wed Track 1 – Session 2

Wed Dec 5th 03:30 – 03:35 PM @ Room 220 CD – Wed Dec 5th 04:55 – 05:00 PM @ Room 220 CD

Breaking the Curse of Horizon: Infinite-Horizon Off-Policy Estimation

Wed Dec 5th 03:30 – 03:35 PM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 2
Qiang Liu · Lihong Li · Ziyang Tang · Dengyong Zhou
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #121

Graph Convolutional Policy Network for Goal-Directed Molecular Graph Generation

Wed Dec 5th 03:35 – 03:40 PM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 2
Jiaxuan You · Bowen Liu · Zhitao Ying · Vijay Pande · Jure Leskovec
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #140

Memory Augmented Policy Optimization for Program Synthesis and Semantic Parsing

Wed Dec 5th 03:40 – 03:45 PM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 2
Chen Liang · Mohammad Norouzi · Jonathan Berant · Quoc V Le · Ni Lao
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #137

Meta-Reinforcement Learning of Structured Exploration Strategies

Wed Dec 5th 03:45 – 03:50 PM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 2
Abhishek Gupta · Russell Mendonca · YuXuan Liu · Pieter Abbeel · Sergey Levine
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #134

Policy Optimization via Importance Sampling

Wed Dec 5th 03:50 – 04:05 PM @ Room 220 CD
Oral – In Wed Track 1 – Session 2
Alberto Maria Metelli · Matteo Papini · Francesco Faccio · Marcello Restelli
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #109

A Bayesian Approach to Generative Adversarial Imitation Learning

Wed Dec 5th 04:05 – 04:10 PM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 2
Wonseok Jeon · Seokin Seo · Kee-Eung Kim
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #129

Visual Reinforcement Learning with Imagined Goals

Wed Dec 5th 04:10 – 04:15 PM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 2
Ashvin Nair · Vitchyr Pong · Murtaza Dalal · Shikhar Bahl · Steven Lin · Sergey Levine
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #141

Randomized Prior Functions for Deep Reinforcement Learning

Wed Dec 5th 04:15 – 04:20 PM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 2
Ian Osband · John Aslanides · Albin Cassirer
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #154

Playing hard exploration games by watching YouTube

Wed Dec 5th 04:20 – 04:25 PM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 2
Yusuf Aytar · Tobias Pfaff · David Budden · Thomas Paine · Ziyu Wang · Nando de Freitas
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #142

Recurrent World Models Facilitate Policy Evolution

Wed Dec 5th 04:25 – 04:40 PM @ Room 220 CD
Oral – In Wed Track 1 – Session 2
David Ha · J?rgen Schmidhuber
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #65

Reducing Network Agnostophobia

Wed Dec 5th 04:40 – 04:45 PM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 2
Akshay Raj Dhamija · Manuel G?nther · Terrance Boult
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #100

Life-Long Disentangled Representation Learning with Cross-Domain Latent Homologies

Wed Dec 5th 04:45 – 04:50 PM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 2
Alessandro Achille · Tom Eccles · Loic Matthey · Chris Burgess · Nicholas Watters · Alexander Lerchner · Irina Higgins
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #101

Geometrically Coupled Monte Carlo Sampling

Wed Dec 5th 04:50 – 04:55 PM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 2
Mark Rowland · Krzysztof Choromanski · Fran?ois Chalus · Aldo Pacchiano · Tamas Sarlos · Richard E Turner · Adrian Weller
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #97

Scalable Laplacian K-modes

Wed Dec 5th 04:55 – 05:00 PM @ Room 220 CD
Spotlight – In Wed Track 1 – Session 2
Imtiaz Ziko · Eric Granger · Ismail Ben Ayed
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #96

In Wed Track 2 – Session 2

Wed Dec 5th 03:30 – 03:35 PM @ Room 220 E – Wed Dec 5th 04:55 – 05:00 PM @ Room 220 E

Dynamic Network Model from Partial Observations

Wed Dec 5th 03:30 – 03:35 PM @ Room 220 E
Spotlight – In Wed Track 2 – Session 2
Elahe Ghalebi · Baharan Mirzasoleiman · Radu Grosu · Jure Leskovec
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #7

Stochastic Nonparametric Event-Tensor Decomposition

Wed Dec 5th 03:35 – 03:40 PM @ Room 220 E
Spotlight – In Wed Track 2 – Session 2
Shandian Zhe · Yishuai Du
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #12

On GANs and GMMs

Wed Dec 5th 03:40 – 03:45 PM @ Room 220 E
Spotlight – In Wed Track 2 – Session 2
Eitan Richardson · Yair Weiss
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #59

GILBO: One Metric to Measure Them All

Wed Dec 5th 03:45 – 03:50 PM @ Room 220 E
Spotlight – In Wed Track 2 – Session 2
Alexander Alemi · Ian Fischer
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #57

Isolating Sources of Disentanglement in Variational Autoencoders

Wed Dec 5th 03:50 – 04:05 PM @ Room 220 E
Oral – In Wed Track 2 – Session 2
Tian Qi Chen · Xuechen Li · Roger Grosse · David Duvenaud
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #58

Sparse Covariance Modeling in High Dimensions with Gaussian Processes

Wed Dec 5th 04:05 – 04:10 PM @ Room 220 E
Spotlight – In Wed Track 2 – Session 2
Rui Li · Kishan KC · Feng Cui · Justin Domke · Anne Haake
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #18

Efficient High Dimensional Bayesian Optimization with Additivity and Quadrature Fourier Features

Wed Dec 5th 04:10 – 04:15 PM @ Room 220 E
Spotlight – In Wed Track 2 – Session 2
Mojmir Mutny · Andreas Krause
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #23

Regret bounds for meta Bayesian optimization with an unknown Gaussian process prior

Wed Dec 5th 04:15 – 04:20 PM @ Room 220 E
Spotlight – In Wed Track 2 – Session 2
Zi Wang · Beomjoon Kim · Leslie Kaelbling
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #22

Adversarially Robust Optimization with Gaussian Processes

Wed Dec 5th 04:20 – 04:25 PM @ Room 220 E
Spotlight – In Wed Track 2 – Session 2
Ilija Bogunovic · Jonathan Scarlett · Stefanie Jegelka · Volkan Cevher
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #24

Approximate Knowledge Compilation by Online Collapsed Importance Sampling

Wed Dec 5th 04:25 – 04:40 PM @ Room 220 E
Oral – In Wed Track 2 – Session 2
Tal Friedman · Guy Van den Broeck
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #5

DAGs with NO TEARS: Continuous Optimization for Structure Learning

Wed Dec 5th 04:40 – 04:45 PM @ Room 220 E
Spotlight – In Wed Track 2 – Session 2
Xun Zheng · Bryon Aragam · Pradeep Ravikumar · Eric Xing
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #9

Proximal Graphical Event Models

Wed Dec 5th 04:45 – 04:50 PM @ Room 220 E
Spotlight – In Wed Track 2 – Session 2
Debarun Bhattacharjya · Dharmashankar Subramanian · Tian Gao
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #6

Heterogeneous Multi-output Gaussian Process Prediction

Wed Dec 5th 04:50 – 04:55 PM @ Room 220 E
Spotlight – In Wed Track 2 – Session 2
Pablo Moreno-Mu?oz · Antonio Art?s · Mauricio ?lvarez
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #14

GPyTorch: Blackbox Matrix-Matrix Gaussian Process Inference with GPU Acceleration

Wed Dec 5th 04:55 – 05:00 PM @ Room 220 E
Spotlight – In Wed Track 2 – Session 2
Jacob Gardner · Geoff Pleiss · Kilian Weinberger · David Bindel · Andrew Wilson
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #13

In Wed Track 3 – Session 2

Wed Dec 5th 03:30 – 03:35 PM @ Room 517 CD – Wed Dec 5th 04:55 – 05:00 PM @ Room 517 CD

The Nearest Neighbor Information Estimator is Adaptively Near Minimax Rate-Optimal

Wed Dec 5th 03:30 – 03:35 PM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 2
Jiantao Jiao · Weihao Gao · Yanjun Han
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #86

Contextual Stochastic Block Models

Wed Dec 5th 03:35 – 03:40 PM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 2
Yash Deshpande · Subhabrata Sen · Andrea Montanari · Elchanan Mossel
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #79

Entropy Rate Estimation for Markov Chains with Large State Space

Wed Dec 5th 03:40 – 03:45 PM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 2
Yanjun Han · Jiantao Jiao · Chuan-Zheng Lee · Tsachy Weissman · Yihong Wu · Tiancheng Yu
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #82

Blind Deconvolutional Phase Retrieval via Convex Programming

Wed Dec 5th 03:45 – 03:50 PM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 2
Ali Ahmed · Alireza Aghasi · Paul Hand
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #81

Stochastic Cubic Regularization for Fast Nonconvex Optimization

Wed Dec 5th 03:50 – 04:05 PM @ Room 517 CD
Oral – In Wed Track 3 – Session 2
Nilesh Tripuraneni · Mitchell Stern · Chi Jin · Jeffrey Regier · Michael Jordan
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #42

Stochastic Nested Variance Reduced Gradient Descent for Nonconvex Optimization

Wed Dec 5th 04:05 – 04:10 PM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 2
Dongruo Zhou · Pan Xu · Quanquan Gu
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #44

On the Local Minima of the Empirical Risk

Wed Dec 5th 04:10 – 04:15 PM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 2
Chi Jin · Lydia T. Liu · Rong Ge · Michael Jordan
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #43

How Much Restricted Isometry is Needed In Nonconvex Matrix
Recovery?

Wed Dec 5th 04:15 – 04:20 PM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 2
Richard Zhang · Cedric Josz · Somayeh Sojoudi · Javad Lavaei
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #46

SPIDER: Near-Optimal Non-Convex Optimization via Stochastic
Path-Integrated Differential Estimator

Wed Dec 5th 04:20 – 04:25 PM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 2
Cong Fang · Chris Junchi Li · Zhouchen Lin · Tong Zhang
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #49

Analysis of Krylov Subspace Solutions of Regularized
Non-Convex Quadratic Problems

Wed Dec 5th 04:25 – 04:40 PM @ Room 517 CD
Oral – In Wed Track 3 – Session 2
Yair Carmon · John Duchi
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #48

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Natasha 2: Faster Non-Convex Optimization Than SGD

Wed Dec 5th 04:40 – 04:45 PM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 2
Zeyuan Allen-Zhu
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #50

Escaping Saddle Points in Constrained Optimization

Wed Dec 5th 04:45 – 04:50 PM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 2
Aryan Mokhtari · Asuman Ozdaglar · Ali Jadbabaie
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #47

On Coresets for Logistic Regression

Wed Dec 5th 04:50 – 04:55 PM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 2
Alexander Munteanu · Chris Schwiegelshohn · Christian Sohler ·
David Woodruff
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #77

Legendre Decomposition for Tensors

Wed Dec 5th 04:55 – 05:00 PM @ Room 517 CD
Spotlight – In Wed Track 3 – Session 2
Mahito Sugiyama · Hiroyuki Nakahara · Koji Tsuda
Poster Wed Dec 5th 05:00 – 07:00 PM @ Room 210 & 230 AB #92