Tue Dec 4th

Machine Learning Meets Public Policy: What to Expect and How to Cope $\,$

Tue Dec 4th 08:30 – 09:20 AM @ Rooms 220 CDE Invited Talk – In Tue Invited Talk 1 Edward W Felten

Test of Time Award

Tue Dec 4th 09:20 - 09:40 AM @ Talk – In Test of Time

Coffee Break

Tue Dec 4th 09:40 – 10:05 AM @ Break –

In Tue Track 1 – Session 1

Tue Dec 4th 10:05 - 10:20 AM @ Room 220 CD - Tue Dec 4th 10:30 - 10:45 AM @ Room 220 CD

On Neuronal Capacity

Tue Dec 4th 10:05 – 10:20 AM @ Room 220 CD Oral – In Tue Track 1 – Session 1 Pierre Baldi · Roman Vershynin Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #142

Learning Overparameterized Neural Networks via Stochastic Gradient Descent on Structured Data

Tue Dec 4th 10:20 – 10:25 AM @ Room 220 CD Spotlight – In Tue Track 1 – Session 1 Yuanzhi Li · Yingyu Liang Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #143

Size-Noise Tradeoffs in Generative Networks

Tue Dec 4th 10:25 – 10:30 AM @ Room 220 CD Spotlight – In Tue Track 1 – Session 1 Bolton Bailey · Matus Telgarsky Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #141

Dendritic cortical microcircuits approximate the backpropagation algorithm

Tue Dec 4th 10:30 – 10:45 AM @ Room 220 CD Oral – In Tue Track 1 – Session 1 Jo?o Sacramento · Rui Ponte Costa · Yoshua Bengio · Walter Senn Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #139

In Tue Track 2 – Session 1

Tue Dec 4th 10:05 - 10:20 AM @ Room 220 E - Tue Dec 4th 10:30 - 10:45 AM @ Room 220 E

On the Dimensionality of Word Embedding

Tue Dec 4th 10:05 – 10:20 AM @ Room 220 E Oral – In Tue Track 2 – Session 1 Zi Yin · Yuanyuan Shen Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #101

Unsupervised Cross-Modal Alignment of Speech and Text ${\tt Embedding\ Spaces}$

Tue Dec 4th 10:20 – 10:25 AM @ Room 220 E Spotlight – In Tue Track 2 – Session 1 Yu-An Chung · Wei-Hung Weng · Schrasing Tong · James Glass Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #156

Diffusion Maps for Textual Network Embedding

Tue Dec 4th 10:25 – 10:30 AM @ Room 220 E Spotlight – In Tue Track 2 – Session 1 Xinyuan Zhang · Yitong Li · Dinghan Shen · Lawrence Carin Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #152

A Retrieve-and-Edit Framework for Predicting Structured Outputs

Tue Dec 4th 10:30 – 10:45 AM @ Room 220 E Oral – In Tue Track 2 – Session 1 Tatsunori Hashimoto · Kelvin Guu · Yonatan Oren · Percy Liang Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #154

In Tue Track 3 – Session 1

Tue Dec 4th 10:05 – 10:20 AM @ Room 517 CD – Tue Dec 4th 10:30 – 10:45 AM @ Room 517 CD

Phase Retrieval Under a Generative Prior

Tue Dec 4th 10:05 – 10:20 AM @ Room 517 CD Oral – In Tue Track 3 – Session 1 Paul Hand · Oscar Leong · Vlad Voroninski Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #162

Global Geometry of Multichannel Sparse Blind Deconvolution on the Sphere

Tue Dec 4th 10:20 – 10:25 AM @ Room 517 CD Spotlight – In Tue Track 3 – Session 1 Yanjun Li · Yoram Bresler Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #161

Theoretical Linear Convergence of Unfolded ISTA and Its Practical Weights and Thresholds

Tue Dec 4th 10:25 – 10:30 AM @ Room 517 CD Spotlight – In Tue Track 3 – Session 1 Xiaohan Chen · Jialin Liu · Zhangyang Wang · Wotao Yin Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #163

Spectral Filtering for General Linear Dynamical Systems

Tue Dec 4th 10:30 – 10:45 AM @ Room 517 CD Oral – In Tue Track 3 – Session 1 Elad Hazan · HOLDEN LEE · Karan Singh · Cyril Zhang · Yi Zhang Poster Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #167

In Tue Demonstrations

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D3 – Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D10

Ruuh: A Deep Learning Based Conversational Social Agent

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D3 Demonstration – In Tue Demonstrations Puneet Agrawal · Manoj Kumar Chinnakotla · Sonam Damani · Meghana Joshi · Kedhar Nath Narahari · Khyatti Gupta · Nitya Raviprakash · Umang Gupta · Ankush Chatterjee · Abhishek Mathur · Sneha Magapu

Reproducing Machine Learning Research on Binder

Tue Dec 4th 10:45 AM - 07:30 PM @ Room 510 Demonstration - In Tue Demonstrations Jessica Forde \cdot Tim Head \cdot Chris Holdgraf \cdot M Pacer \cdot F?lix-Antoine Fortin \cdot Fernando Perez

A model-agnostic web interface for interactive music composition by inpainting $% \left(1\right) =\left(1\right) \left(1\right) \left($

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D8 Demonstration – In Tue Demonstrations Ga?tan Hadjeres \cdot Th?is Bazin \cdot Ashis Pati

A machine learning environment to determine novel malaria policies

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D9 Demonstration – In Tue Demonstrations Oliver Bent \cdot Sekou L Remy \cdot Nelson Bore

A Hands-free Natural User Interface (NUI) for AR/VR Head-Mounted Displays Exploiting Wearer's Facial Gestures

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D7 Demonstration – In Tue Demonstrations Jaekwang Cha \cdot Shiho Kim \cdot Jinhyuk Kim

Deep Neural Networks Running Onboard Anki's Robot, Vector

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D1 Demonstration – In Tue Demonstrations Lorenzo Riano \cdot Andrew Stein \cdot Mark Palatucci

TensorFlow Dance - Learning to Dance via Machine Learning

Tue Dec 4th 10:45 AM - 07:30 PM @ Room 510 Demonstration - In Tue Demonstrations Yaz Santissi \cdot Jonathan DEKHTIAR \cdot Chintan Trivedi

Game for Detecting Backdoor Attacks on Deep Neural Networks using Activation Clustering

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D4 Demonstration – In Tue Demonstrations Casey Dugan · Werner Geyer · Aabhas Sharma · Ingrid Lange · Dustin Ramsey Torres · Bryant Chen · Nathalie Baracaldo Angel · Heiko Ludwig

Deep learning to improve quality control in pharmaceutical manufacturing $% \left(1\right) =\left(1\right) \left(1\right)$

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D5 Demonstration – In Tue Demonstrations Michael Sass Hansen \cdot Sebastian Brandes Kraaijenzank

 ${\tt TextWorld:} \ {\tt A} \ {\tt Learning} \ {\tt Environment} \ {\tt for} \ {\tt Text-based} \ {\tt Games}$

Tue Dec 4th 10:45 AM – 07:30 PM @ Room 510 ABCD #D10 Demonstration – In Tue Demonstrations Marc-Alexandre C?t? · Wendy Tay · Eric Yuan

In Tue Poster Session A

Modelling sparsity, heterogeneity, reciprocity and community structure in temporal interaction data

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #1 Poster – In Tue Poster Session A Xenia Miscouridou \cdot Francois Caron \cdot Yee Whye Teh

The Lingering of Gradients: How to Reuse Gradients Over Time

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #2 Poster – In Tue Poster Session A Zeyuan Allen-Zhu \cdot David Simchi-Levi \cdot Xinshang Wang

Quadratic Decomposable Submodular Function Minimization

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #3 Poster – In Tue Poster Session A Pan Li \cdot Niao He \cdot Olgica Milenkovic

On the Global Convergence of Gradient Descent for Over-parameterized Models using Optimal Transport

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #4 Poster – In Tue Poster Session A L?na?c Chizat \cdot Francis Bach

Leveraging the Exact Likelihood of Deep Latent Variable Models

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #5 Poster – In Tue Poster Session A Pierre-Alexandre Mattei \cdot Jes Frellsen

DVAE\#: Discrete Variational Autoencoders with Relaxed Boltzmann Priors

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #6 Poster – In Tue Poster Session A Arash Vahdat \cdot Evgeny Andriyash \cdot William Macready

Amortized Inference Regularization

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #7 Poster – In Tue Poster Session A Rui Shu · Hung Bui · Shengjia Zhao · Mykel J Kochenderfer · Stefano Ermon

GumBolt: Extending Gumbel trick to Boltzmann priors

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #8 Poster – In Tue Poster Session A Amir H Khoshaman \cdot Mohammad Amin

Constrained Generation of Semantically Valid Graphs via Regularizing Variational Autoencoders

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #9 Poster – In Tue Poster Session A Tengfei Ma \cdot Jie Chen \cdot Cao Xiao

Invertibility of Convolutional Generative Networks from Partial Measurements

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #10 Poster – In Tue Poster Session A Fangchang Ma \cdot Ulas Ayaz \cdot Sertac Karaman

Glow: Generative Flow with Invertible 1x1 Convolutions

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #11 Poster – In Tue Poster Session A Durk Kingma \cdot Prafulla Dhariwal

 ${\tt Multimodal \ Generative \ Models \ for \ Scalable \ Weakly-Supervised \ Learning}$

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #12 Poster – In Tue Poster Session A Mike Wu \cdot Noah Goodman

 $\label{limits} \mbox{IntroVAE: Introspective Variational Autoencoders for Photographic Image Synthesis}$

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #13 Poster – In Tue Poster Session A Huaibo Huang \cdot zhihang li \cdot Ran He \cdot Zhenan Sun \cdot Tieniu Tan

Towards Text Generation with Adversarially Learned Neural Outlines

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #14 Poster – In Tue Poster Session A Sandeep Subramanian · Sai Rajeswar Mudumba · Alessandro Sordoni · Adam Trischler · Aaron Courville · Chris Pal

 $\hbox{ Unsupervised Image-to-Image Translation Using Domain-Specific Variational Information Bound } \\$

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #15 Poster – In Tue Poster Session A Hadi Kazemi · Sobhan Soleymani · Fariborz Taherkhani · Seyed Iranmanesh · Nasser Nasrabadi

Adversarial Scene Editing: Automatic Object Removal from Weak Supervision

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #16 Poster – In Tue Poster Session A Rakshith R Shetty \cdot Mario Fritz \cdot Bernt Schiele

Generalizing Point Embeddings using the Wasserstein Space of Elliptical Distributions $\,$

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #17 Poster – In Tue Poster Session A Boris Muzellec \cdot Marco Cuturi

Banach Wasserstein GAN

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #18 Poster – In Tue Poster Session A Jonas Adler \cdot Sebastian Lunz

A Convex Duality Framework for GANs

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #19 Poster – In Tue Poster Session A Farzan Farnia \cdot David Tse

On the Convergence and Robustness of Training GANs with Regularized Optimal Transport

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #20 Poster – In Tue Poster Session A Maziar Sanjabi \cdot Jimmy Ba \cdot Meisam Razaviyayn \cdot Jason Lee

On gradient regularizers for MMD GANs

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #21 Poster – In Tue Poster Session A Michael Arbel \cdot Dougal Sutherland \cdot Miko?aj Bi?kowski \cdot Arthur Gretton

${\tt PacGAN:}$ The power of two samples in generative adversarial networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #22 Poster – In Tue Poster Session A Zinan Lin \cdot Ashish Khetan \cdot Giulia Fanti \cdot Sewoong Oh

Are GANs Created Equal? A Large-Scale Study

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #23 Poster – In Tue Poster Session A Mario Lucic · Karol Kurach · Marcin Michalski · Sylvain Gelly · Olivier Bousquet

Disconnected Manifold Learning for Generative Adversarial Networks $\,$

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #24 Poster – In Tue Poster Session A Mahyar Khayatkhoei · Maneesh K. Singh · Ahmed Elgammal

$\label{thm:constraint} \mbox{Hessian-based Analysis of Large Batch Training and Robustness} \mbox{ to Adversaries}$

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #25 Poster – In Tue Poster Session A Zhewei Yao · Amir Gholami · Qi Lei · Kurt Keutzer · Michael W Mahoney

Fast and Effective Robustness Certification

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #26 Poster – In Tue Poster Session A Gagandeep Singh \cdot Timon Gehr \cdot Matthew Mirman \cdot Markus P?schel \cdot Martin Vechev

Graphical Generative Adversarial Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #27 Poster – In Tue Poster Session A Chongxuan LI \cdot Max Welling \cdot Jun Zhu \cdot Bo Zhang

Deep Defense: Training DNNs with Improved Adversarial Robustness $% \left(1\right) =\left(1\right) +\left(1\right) +\left$

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #28 Poster – In Tue Poster Session A Ziang Yan \cdot Yiwen Guo \cdot Changshui Zhang

Learning to Repair Software Vulnerabilities with Generative Adversarial Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #29 Poster – In Tue Poster Session A

Jacob Harer · Onur Ozdemir · Tomo Lazovich · Christopher Reale · Rebecca Russell · Louis Kim · peter chin

Memory Replay GANs: Learning to Generate New Categories without Forgetting

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #30 Poster – In Tue Poster Session A Chenshen Wu \cdot Luis Herranz \cdot Xialei Liu \cdot yaxing wang \cdot Joost van de Weijer \cdot Bogdan Raducanu

${\tt Unsupervised\ Attention-guided\ Image-to-Image\ Translation}$

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #31 Poster – In Tue Poster Session A Youssef Alami Mejjati · Christian Richardt · James Tompkin · Darren Cosker · Kwang In Kim

Conditional Adversarial Domain Adaptation

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #32 Poster – In Tue Poster Session A Mingsheng Long \cdot ZHANGJIE CAO \cdot Jianmin Wang \cdot Michael Jordan

Video-to-Video Synthesis

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #33 Poster – In Tue Poster Session A Ting-Chun Wang · Ming-Yu Liu · Jun-Yan Zhu · Nikolai Yakovenko · Andrew Tao · Jan Kautz · Bryan Catanzaro

Generalized Zero-Shot Learning with Deep Calibration Network

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #34 Poster – In Tue Poster Session A Shichen Liu · Mingsheng Long · Jianmin Wang · Michael Jordan

Low-shot Learning via Covariance-Preserving Adversarial Augmentation Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #35 Poster – In Tue Poster Session A Hang Gao \cdot Zheng Shou \cdot Alireza Zareian \cdot Hanwang Zhang \cdot Shih-Fu Chang

Trading robust representations for sample complexity through self-supervised visual experience $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #36 Poster – In Tue Poster Session A Andrea Tacchetti · Stephen Voinea · Georgios Evangelopoulos

TADAM: Task dependent adaptive metric for improved few-shot learning

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #37 Poster – In Tue Poster Session A Boris Oreshkin \cdot Pau Rodr?guez L?pez \cdot Alexandre Lacoste

FishNet: A Versatile Backbone for Image, Region, and Pixel Level Prediction

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #38 Poster – In Tue Poster Session A Shuyang Sun · Jiangmiao Pang · Jianping Shi · Shuai Yi · Wanli Ouyang

Batch-Instance Normalization for Adaptively Style-Invariant Neural Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #39 Poster – In Tue Poster Session A Hyeonseob Nam \cdot Hyo-Eun Kim

A^2-Nets: Double Attention Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #40 Poster – In Tue Poster Session A

Yunpeng Chen · Yannis Kalantidis · Jianshu Li · Shuicheng Yan · Jiashi Feng

Pelee: A Real-Time Object Detection System on Mobile Devices

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #41 Poster – In Tue Poster Session A

Jun Wang · Tanner Bohn · Charles Ling

PointCNN: Convolution On X-Transformed Points

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #42 Poster – In Tue Poster Session A

Yangyan Li · Rui Bu · Mingchao Sun · Wei Wu · Xinhan Di · Baoquan Chen

Deep Neural Networks with Box Convolutions

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #43 Poster – In Tue Poster Session A Egor Burkov \cdot Victor Lempitsky

An intriguing failing of convolutional neural networks and the ${\tt CoordConv}$ solution

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #44 Poster – In Tue Poster Session A

Rosanne Liu · Joel Lehman · Piero Molino · Felipe Petroski Such · Eric Frank · Alex Sergeev · Jason Yosinski

${\tt 3D}$ Steerable CNNs: Learning Rotationally Equivariant Features in Volumetric ${\tt Data}$

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #45 Poster – In Tue Poster Session A

Maurice Weiler · Wouter Boomsma · Mario Geiger · Max Welling · Taco Cohen

Moonshine: Distilling with Cheap Convolutions

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #46

Poster – In Tue Poster Session A Elliot J. Crowley \cdot Gavin Gray \cdot Amos Storkey

Kalman Normalization: Normalizing Internal Representations Across Network Layers

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #47 Poster - In Tue Poster Session A

Guangrun Wang \cdot jiefeng peng \cdot Ping Luo \cdot Xinjiang Wang \cdot Liang Lin

SplineNets: Continuous Neural Decision Graphs

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #48 Poster – In Tue Poster Session A

Cem Keskin · Shahram Izadi

CapProNet: Deep Feature Learning via Orthogonal Projections onto Capsule Subspaces

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #49 Poster - In Tue Poster Session A

Liheng Zhang \cdot Marzieh Edraki \cdot Guo-Jun Qi

Which Neural Net Architectures Give Rise to Exploding and Vanishing Gradients?

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #50 Poster – In Tue Poster Session A Boris Hanin

${\tt Exact}$ natural gradient in deep linear networks and its application to the nonlinear case

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #51 Poster – In Tue Poster Session A

Alberto Bernacchia · Mate Lengyel · Guillaume Hennequin

Fast Approximate Natural Gradient Descent in a Kronecker Factored Eigenbasis

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #52 Poster – In Tue Poster Session A

Thomas George · C?sar Laurent · Xavier Bouthillier · Nicolas Ballas · Pascal Vincent

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #53 Poster – In Tue Poster Session A

Yuanxiang Gao · Li Chen · Baochun Li

Paraphrasing Complex Network: Network Compression via Factor Transfer $\,$

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #54 Poster – In Tue Poster Session A

Jangho Kim · Seonguk Park · Nojun Kwak

Learning Compressed Transforms with Low Displacement Rank

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #55 Poster – In Tue Poster Session A

Anna Thomas · Albert Gu · Tri Dao · Atri Rudra · Christopher R?

Knowledge Distillation by On-the-Fly Native Ensemble

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #56 Poster – In Tue Poster Session A xu lan \cdot Xiatian Zhu \cdot Shaogang Gong

Scalable methods for 8-bit training of neural networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #57 Poster – In Tue Poster Session A Ron Banner \cdot Itay Hubara \cdot Elad Hoffer \cdot Daniel Soudry

Training Deep Models Faster with Robust, Approximate Importance Sampling $% \begin{center} \end{center} \begin{center} \begin$

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #58 Poster – In Tue Poster Session A

Tyler Johnson \cdot Carlos Guestrin

Collaborative Learning for Deep Neural Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #59 Poster – In Tue Poster Session A Guocong Song \cdot Wei Chai

A Linear Speedup Analysis of Distributed Deep Learning with Sparse and Quantized Communication

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #60 Poster – In Tue Poster Session A Peng Jiang \cdot Gagan Agrawal

Bayesian Distributed Stochastic Gradient Descent

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #61 Poster – In Tue Poster Session A Michael Teng \cdot Frank Wood

Regularizing by the Variance of the Activations' Sample-Variances

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #62 Poster – In Tue Poster Session A Etai Littwin \cdot Lior Wolf

$\operatorname{BML}\colon$ A High-performance, Low-cost Gradient Synchronization Algorithm for DML Training

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #63 Poster – In Tue Poster Session A Songtao Wang \cdot Dan Li \cdot Yang Cheng \cdot Jinkun Geng \cdot Yanshu Wang \cdot Shuai Wang \cdot Shu-Tao Xia \cdot Jianping Wu

L4: Practical loss-based stepsize adaptation for deep learning

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #64 Poster – In Tue Poster Session A Michal Rolinek \cdot Georg Martius

Synaptic Strength For Convolutional Neural Network

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #65 Poster – In Tue Poster Session A CHEN LIN · Zhao Zhong · Wu Wei · Junjie Yan

ChannelNets: Compact and Efficient Convolutional Neural Networks via Channel-Wise Convolutions

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #66 Poster – In Tue Poster Session A Hongyang Gao \cdot Zhengyang Wang \cdot Shuiwang Ji

Frequency-Domain Dynamic Pruning for Convolutional Neural Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #67 Poster – In Tue Poster Session A Zhenhua Liu \cdot Jizheng Xu \cdot Xiulian Peng \cdot Ruiqin Xiong

TETRIS: TilE-matching the TRemendous Irregular Sparsity

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #68 Poster – In Tue Poster Session A

Yu Ji
- Ling Liang · Lei Deng · Youyang Zhang · Youhui Zhang · Yu
an Xie

Heterogeneous Bitwidth Binarization in Convolutional Neural Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #69 Poster – In Tue Poster Session A Joshua Fromm \cdot Shwetak Patel \cdot Matthai Philipose

HitNet: Hybrid Ternary Recurrent Neural Network

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #70 Poster – In Tue Poster Session A
Peigi Wang · Xinfeng Xie · Lei Deng · Guogi Li · Dongsheng Wa

Peiqi Wang \cdot Xinfeng Xi
e \cdot Lei Deng \cdot Guoqi Li \cdot Dongsheng Wang
 \cdot Yuan Xie

A General Method for Amortizing Variational Filtering

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #71 Poster – In Tue Poster Session A Joseph Marino \cdot Milan Cvitkovic \cdot Yisong Yue

Multiple Instance Learning for Efficient Sequential Data Classification on Resource-constrained Devices

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #72 Poster – In Tue Poster Session A Don Dennis · Chirag Pabbaraju · Harsha Vardhan Simhadri · Pratok Lui

Navigating with Graph Representations for Fast and Scalable Decoding of Neural Language Models

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #73 Poster – In Tue Poster Session A Minjia Zhang \cdot Wenhan Wang \cdot Xiaodong Liu \cdot Jianfeng Gao \cdot Yuxiong He

Representer Point Selection for Explaining Deep Neural Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #74 Poster – In Tue Poster Session A Chih-Kuan Yeh \cdot Joon Kim \cdot Ian En-Hsu Yen \cdot Pradeep Ravikumar

Interpreting Neural Network Judgments via Minimal, Stable, and Symbolic Corrections

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #75 Poster – In Tue Poster Session A Xin Zhang \cdot Armando Solar-Lezama \cdot Rishabh Singh

DropMax: Adaptive Variational Softmax

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #76 Poster – In Tue Poster Session A

Hae Beom Lee \cdot Juho Lee \cdot Saehoon Kim \cdot Eunho Yang \cdot Sung Ju Hwang

${\tt Out-of-Distribution\ Detection\ using\ Multiple\ Semantic\ Label\ Representations}$

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #77 Poster – In Tue Poster Session A Gabi Shalev \cdot Yossi Adi \cdot Joseph Keshet

End-to-end Symmetry Preserving Inter-atomic Potential Energy Model for Finite and Extended Systems

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #78 Poster – In Tue Poster Session A Linfeng Zhang \cdot Jiequn Han \cdot Han Wang \cdot Wissam Saidi \cdot Roberto Car \cdot Weinan E

Deep Predictive Coding Network with Local Recurrent Processing for Object Recognition $% \left(1\right) =\left(1\right) +\left(1$

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #79 Poster – In Tue Poster Session A Kuan Han · Haiguang Wen · Yizhen Zhang · Di Fu · Eugenio Culurciello · Zhongming Liu

SLAYER: Spike Layer Error Reassignment in Time

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #80 Poster – In Tue Poster Session A Sumit Bam Shrestha \cdot Garrick Orchard

${\tt DeepPINK: reproducible \ feature \ selection \ in \ deep \ neural \ networks}$

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #81 Poster – In Tue Poster Session A Yang Lu \cdot Yingying Fan \cdot Jinchi Lv \cdot William Stafford Noble

Learning long-range spatial dependencies with horizontal gated recurrent units $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right)$

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #82 Poster - In Tue Poster Session A Drew Linsley \cdot Junkyung Kim \cdot Vijay Veerabadran \cdot Charles Windolf \cdot Thomas Serre

${\tt Neural\ Interaction\ Transparency\ (NIT):\ Disentangling\ Learned\ Interactions\ for\ Improved\ Interpretability}$

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #83 Poster – In Tue Poster Session A Michael Tsang \cdot Hanpeng Liu \cdot Sanjay Purushotham \cdot Pavankumar Murali \cdot Yan Liu

A Bridging Framework for Model Optimization and Deep Propagation $% \left(1\right) =\left(1\right) +\left(1\right) +\left$

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #84 Poster – In Tue Poster Session A Risheng Liu · Shichao Cheng · xiaokun liu · Long Ma · Xin Fan · Zhongxuan Luo

The Importance of Sampling inMeta-Reinforcement Learning

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #85 Poster – In Tue Poster Session A Bradly Stadie · Ge Yang · Rein Houthooft · Peter Chen · Yan Duan · Yuhuai Wu · Pieter Abbeel · Ilya Sutskever

Latent Alignment and Variational Attention

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #86 Poster – In Tue Poster Session A Yuntian Deng \cdot Yoon Kim \cdot Justin Chiu \cdot Demi Guo \cdot Alexander Rush

Variational Memory Encoder-Decoder

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #87Poster – In Tue Poster Session A

Hung Le · Truyen Tran · Thin Nguyen · Svetha Venkatesh

Relational recurrent neural networks

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #88Poster – In Tue Poster Session A

Adam Santoro · Ryan Faulkner · David Raposo · Jack Rae · Mike Chrzanowski · Theophane Weber · Daan Wierstra · Oriol Vinyals Razvan Pascanu · Timothy Lillicrap

Learning to Reason with Third Order Tensor Products

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #89 Poster - In Tue Poster Session A Imanol Schlag · J?rgen Schmidhuber

Reversible Recurrent Neural Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #90Poster – In Tue Poster Session A

Matthew MacKay · Paul Vicol · Jimmy Ba · Roger Grosse

Breaking the Activation Function Bottleneck through Adaptive Parameterization

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #91 Poster - In Tue Poster Session A Sebastian Flennerhag · Hujun Yin · John Keane · Mark Elliot

BRITS: Bidirectional Recurrent Imputation for Time Series

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #92 Poster – In Tue Poster Session A

Wei Cao · Qi Wei · Jian Li · Hao Zhou · Lei Li · Yitan Li

Complex Gated Recurrent Neural Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #93Poster – In Tue Poster Session A Moritz Wolter \cdot Angela Yao

Middle-Out Decoding

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #94 Poster – In Tue Poster Session A Shikib Mehri · Leonid Sigal

Recurrently Controlled Recurrent Networks

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #95Poster - In Tue Poster Session A

Yi Tay · Anh Tuan Luu · Siu Cheung Hui

Tree-to-tree Neural Networks for Program Translation

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #96 Poster – In Tue Poster Session A Xinyun Chen \cdot Chang Liu \cdot Dawn Song

HOUDINI: Lifelong Learning as Program Synthesis

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #97Poster – In Tue Poster Session A Lazar Valkov · Dipak Chaudhari · Akash Srivastava · Charles Sutton

· Swarat Chaudhuri

Neural Guided Constraint Logic Programming for Program

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #98 Poster – In Tue Poster Session A
Lisa Zhang · Gregory Rosenblatt · Ethan Fetaya · Renjie Liao ·

William Byrd · Matthew Might · Raquel Urtasun · Richard Zemel

Embedding Logical Queries on Knowledge Graphs

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #99 Poster – In Tue Poster Session A

 Will Hamilton · Payal Bajaj · Marinka Zitnik · Dan Jurafsky · Jure Leskovec

Expanding Holographic Embeddings for Knowledge Completion

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #100 Poster – In Tue Poster Session A Yexiang Xue · Yang Yuan · Zhitian Xu · Ashish Sabharwal

On the Dimensionality of Word Embedding

Fei-Fei \cdot Josh Tenenbaum \cdot Daniel Yamins

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #101 Poster - In Tue Poster Session A Zi Yin · Yuanyuan Shen

Flexible neural representation for physics prediction

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #102Poster – In Tue Poster Session A Damian Mrowca · Chengxu Zhuang · Elias Wang · Nick Haber · Li

Content preserving text generation with attribute controls

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #103 Poster – In Tue Poster Session A Lajanugen Logeswaran · Honglak Lee · Samy Bengio

Recurrent Relational Networks

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #104Poster – In Tue Poster Session A Rasmus Palm · Ulrich Paquet · Ole Winther

GLoMo: Unsupervised Learning of Transferable Relational Graphs

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #105 Poster – In Tue Poster Session A Zhilin Yang \cdot Jake Zhao \cdot Bhuwan Dhingra \cdot Kaiming He \cdot William Cohen \cdot Ruslan Salakhutdinov \cdot Yann LeCun

Predictive Uncertainty Estimation via Prior Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #106 Poster – In Tue Poster Session A Andrey Malinin \cdot Mark Gales

Adversarial Multiple Source Domain Adaptation

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #107 Poster – In Tue Poster Session A Han Zhao · Shanghang Zhang · Guanhang Wu · Jos? M. F. Moura · Joao P Costeira · Geoffrey Gordon

Adversarial Examples that Fool both Computer Vision and Time-Limited Humans

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #108 Poster – In Tue Poster Session A Gamaleldin Elsayed · Sh
reya Shankar · Brian Cheung · Nicolas Papernot · Alexey Kurakin · Ian Goodfellow · Jascha Sohl-Dickstein

A Simple Cache Model for Image Recognition

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #109 Poster – In Tue Poster Session A Emin Orhan

Co-teaching: Robust training of deep neural networks with extremely noisy labels

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #110Poster – In Tue Poster Session A Bo Han \cdot Quanming Yao \cdot Xingrui Yu \cdot Gang Niu \cdot Miao Xu \cdot Weihua Hu \cdot Ivor Tsang \cdot Masashi Sugiyama

Improved Network Robustness with Adversary Critic

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #111 Poster – In Tue Poster Session A Alexander Matyasko · Lap-Pui Chau

Unsupervised Learning of Object Landmarks through Conditional Image Generation

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #112 Poster – In Tue Poster Session A

Tomas Jakab · Ankush Gupta · Hakan Bilen · Andrea Vedaldi

Multi-Task Learning as Multi-Objective Optimization

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #113 Poster – In Tue Poster Session A Ozan Sener \cdot Vladlen Koltun

Deep Anomaly Detection Using Geometric Transformations

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #114 Poster – In Tue Poster Session A Izhak Golan \cdot Ran El-Yaniv

Practical Deep Stereo (PDS): Toward applications-friendly deep stereo matching

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #115 Poster – In Tue Poster Session A

Stepan Tulyakov \cdot Anton Ivanov \cdot Fran?ois Fleuret

VideoCapsuleNet: A Simplified Network for Action Detection

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #116 Poster – In Tue Poster Session A Kevin Duarte \cdot Yogesh Rawat \cdot Mubarak Shah

With Friends Like These. Who Needs Adversaries?

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #117 Poster – In Tue Poster Session A Saumya Jetley \cdot Nicholas Lord \cdot Philip Torr

Multi-Task Zipping via Layer-wise Neuron Sharing

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #118 Poster - In Tue Poster Session A Xiaoxi He \cdot Zimu Zhou \cdot Lothar Thiele

Learning Versatile Filters for Efficient Convolutional Neural

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #119 Poster – In Tue Poster Session A Yunhe Wang \cdot Chang Xu \cdot Chunjing XU \cdot Chao Xu \cdot Dacheng Tao

Evolutionary Stochastic Gradient Descent for Optimization of Deep Neural Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #120 Poster – In Tue Poster Session A Xiaodong Cui · Wei Zhang · Zolt?n T?ske · Michael Picheny

Structure-Aware Convolutional Neural Networks

Li

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #121 Poster – In Tue Poster Session A Jianlong Chang \cdot Jie Gu \cdot Lingfeng Wang \cdot GAOFENG MENG \cdot SHIMING XIANG \cdot Chunhong Pan

Global Gated Mixture of Second-order Pooling for Improving Deep Convolutional Neural Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #122 Poster – In Tue Poster Session A Qilong Wang · Zilin Gao · Jiangtao Xie · Wangmeng Zuo · Peihua

Hybrid Macro/Micro Level Backpropagation for Training Deep Spiking Neural Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #123 Poster – In Tue Poster Session A Yingyezhe Jin \cdot Wenrui Zhang \cdot Peng Li

Deep Neural Nets with Interpolating Function as Output Activation $\,$

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #124 Poster – In Tue Poster Session A Bao Wang · Xiyang Luo · Zhen Li · Wei Zhu · Zuoqiang Shi · Stanley

Neural Edit Operations for Biological Sequences

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #125 Poster – In Tue Poster Session A Satoshi Koide \cdot Keisuke Kawano \cdot Takuro Kutsuna

Improved Expressivity Through Dendritic Neural Networks

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #126 Poster – In Tue Poster Session A Xundong Wu \cdot Xiangwen Liu \cdot wei li \cdot qing wu

Neural Proximal Gradient Descent for Compressive Imaging

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #127 Poster – In Tue Poster Session A Morteza Mardani · Qingyun Sun · David Donoho · Vardan Papyan · Hatef Monajemi · Shreyas Vasanawala · John Pauly

Sigsoftmax: Reanalysis of the Softmax Bottleneck

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #128 Poster – In Tue Poster Session A Sekitoshi Kanai · Yasuhiro Fujiwara · Yuki Yamanaka · Shuichi Adachi

Visualizing the Loss Landscape of Neural Nets

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #129 Poster – In Tue Poster Session A Hao Li \cdot Zheng Xu \cdot Gavin Taylor \cdot Christoph Studer \cdot Tom Goldstein

Clebsch{Gordan Nets: a Fully Fourier Space Spherical Convolutional Neural Network

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #130 Poster – In Tue Poster Session A Risi Kondor \cdot Zhen Lin \cdot Shubhendu Trivedi

Adaptive Sampling Towards Fast Graph Representation Learning

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #131 Poster – In Tue Poster Session A Wenbing Huang \cdot Tong Zhang \cdot Yu Rong \cdot Junzhou Huang

${\tt NAIS-Net: Stable\ Deep\ Networks\ from\ Non-Autonomous\ Differential\ Equations}$

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #132 Poster – In Tue Poster Session A Marco Ciccone · Marco Gallieri · Jonathan Masci · Christian Osendorfer · Faustino Gomez

Scaling provable adversarial defenses

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #133 Poster – In Tue Poster Session A Eric Wong \cdot Frank Schmidt \cdot Jan Hendrik Metzen \cdot J. Zico Kolter

Lipschitz regularity of deep neural networks: analysis and efficient estimation

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #134 Poster – In Tue Poster Session A Aladin Virmaux \cdot Kevin Scaman

Training DNNs with Hybrid Block Floating Point

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #135 Poster – In Tue Poster Session A Mario Drumond \cdot Tao LIN \cdot Martin Jaggi \cdot Babak Falsafi

Mesh-TensorFlow: Deep Learning for Supercomputers

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #136 Poster – In Tue Poster Session A

Noam Shazeer · Youlong Cheng · Niki Parmar · Dustin Tran · Ashish Vaswani · Penporn Koanantakool · Peter Hawkins · Hyouk Joong Lee · Mingsheng Hong · Cliff Young · Ryan Sepassi · Blake Hechtman

Thwarting Adversarial Examples: An $L_0\$ -Robust Sparse Fourier Transform

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #137 Poster – In Tue Poster Session A Mitali Bafna \cdot Jack Murtagh \cdot Nikhil Vyas

Bayesian Adversarial Learning

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #138 Poster – In Tue Poster Session A Nanyang Ye \cdot Zhanxing Zhu

Dendritic cortical microcircuits approximate the backpropagation algorithm

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #139 Poster – In Tue Poster Session A Jo?o Sacramento · Rui Ponte Costa · Yoshua Bengio · Walter Senn

Learning a latent manifold of odor representations from neural responses in piriform cortex

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #140 Poster - In Tue Poster Session A

Anqi Wu · Stan Pashkovski · Sandeep Datta · Jonathan W Pillow

Size-Noise Tradeoffs in Generative Networks

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #141 Poster – In Tue Poster Session A Bolton Bailey \cdot Matus Telgarsky

On Neuronal Capacity

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #142 Poster – In Tue Poster Session A Pierre Baldi \cdot Roman Vershynin

Learning Overparameterized Neural Networks via Stochastic Gradient Descent on Structured Data

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #143 Poster – In Tue Poster Session A Yuanzhi Li \cdot Yingyu Liang

Deep, complex, invertible networks for inversion of transmission effects in multimode optical fibres

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #144 Poster – In Tue Poster Session A

Ois?n Moran - Piergiorgio Caramazza - Daniele Faccio - Roderick Murray-Smith

Learning towards Minimum Hyperspherical Energy

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #145 Poster – In Tue Poster Session A

Weiyang Liu · Rongmei Lin · Zhen Liu · Lixin Liu · Zhiding Yu · Bo Dai · Le Song

Soft-Gated Warping-GAN for Pose-Guided Person Image Synthesis

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #146 Poster – In Tue Poster Session A

Haoye Dong · Xiaodan Liang · Ke Gong · Hanjiang Lai · Jia Zhu · Jian Yin

Deep Attentive Tracking via Reciprocative Learning

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #147 Poster – In Tue Poster Session A

Shi Pu \cdot Yibing Song \cdot Chao Ma \cdot Honggang Zhang \cdot Ming-Hsuan Yang

Robot Learning in Homes: Improving Generalization and Reducing Dataset Bias $\,$

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #148 Poster – In Tue Poster Session A

Abhinav Gupta · Adithyavairavan Murali · Dhiraj Prakashchand Gandhi · Lerrel Pinto

$\mbox{\ensuremath{\mathtt{A}}}$ flexible model for training action localization with varying levels of supervision

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #149 Poster – In Tue Poster Session A

Guilhem Ch?ron · Jean-Baptiste Alayrac · Ivan Laptev · Cordelia Schmid

Bilinear Attention Networks

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #150 Poster – In Tue Poster Session A

Jin-Hwa Kim · Jaehyun Jun · Byoung-Tak Zhang

MacNet: Transferring Knowledge from Machine Comprehension to Sequence-to-Sequence Models

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #151 Poster – In Tue Poster Session A

Boyuan Pan · Yazheng Yang · Hao Li · Zhou Zhao · Yueting Zhuang · Deng Cai · Xiaofei He

Diffusion Maps for Textual Network Embedding

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #152 Poster – In Tue Poster Session A Xinyuan Zhang · Yitong Li · Dinghan Shen · Lawrence Carin

FRAGE: Frequency-Agnostic Word Representation

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #153 Poster – In Tue Poster Session A

Chengyue Gong \cdot Di He \cdot Xu Tan \cdot Tao Qin \cdot Liwei Wang \cdot Tie-Yan Liu

A Retrieve-and-Edit Framework for Predicting Structured Outputs

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #154 Poster – In Tue Poster Session A

Tatsunori Hashimoto · Kelvin Guu · Yonatan Oren · Percy Liang

Unsupervised Text Style Transfer using Language Models as Discriminators

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #155 Poster – In Tue Poster Session A Zichao Yang · Zhiting Hu · Chris Dyer · Eric Xing · Taylor Berg-

Kirkpatrick

Unsupervised Cross-Modal Alignment of Speech and Text Embedding Spaces $\,$

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #156 Poster – In Tue Poster Session A

Yu-An Chung \cdot Wei-Hung Weng \cdot Schrasing Tong \cdot James Glass

GradiVeQ: Vector Quantization for Bandwidth-Efficient Gradient Aggregation in Distributed CNN Training

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #157 Poster – In Tue Poster Session A

Mingchao Yu · Zhifeng Lin · Krishna Narra · Songze Li · Youjie Li · Nam Sung Kim · Alexander Schwing · Murali Annavaram · Salman Avestimehr

$\label{thm:communication-efficient} \mbox{Gradient Sparsification for Communication-Efficient Distributed Optimization}$

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #158 Poster – In Tue Poster Session A Jianqiao Wangni \cdot Jialei Wang \cdot Ji Liu \cdot Tong Zhang

Bayesian multi-domain learning for cancer subtype discovery from next-generation sequencing count data

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #159 Poster – In Tue Poster Session A

Ehsan Hajiramezanali · Siamak Zamani Dadaneh · Alireza Karbalayghareh · Mingyuan Zhou · Xiaoning Qian

Parsimonious Quantile Regression of Financial Asset Tail Dynamics via Sequential Learning

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #160 Poster – In Tue Poster Session A Xing Yan · Weizhong Zhang · Lin Ma · Wei Liu · Qi Wu

Global Geometry of Multichannel Sparse Blind Deconvolution on the Sphere

Tue Dec 4th 10:45 AM - 12:45 PM @ Room 210 & 230 AB #161 Poster – In Tue Poster Session A Yanjun Li \cdot Yoram Bresler

Phase Retrieval Under a Generative Prior

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #162 Poster – In Tue Poster Session A Paul Hand \cdot Oscar Leong \cdot Vlad Voroninski

Theoretical Linear Convergence of Unfolded ISTA and Its Practical Weights and Thresholds

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #163 Poster – In Tue Poster Session A Xiaohan Chen \cdot Jialin Liu \cdot Zhangyang Wang \cdot Wotao Yin

Modern Neural Networks Generalize on Small Data Sets

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #164 Poster – In Tue Poster Session A Matthew Olson \cdot Abraham Wyner \cdot Richard Berk

Co-regularized Alignment for Unsupervised Domain Adaptation

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #165 Poster – In Tue Poster Session A Abhishek Kumar · Prasanna Sattigeri · Kahini Wadhawan · Leonid Karlinsky · Rogerio Feris · Bill Freeman · Gregory Wornell

Neural Networks Trained to Solve Differential Equations Learn General Representations

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #166 Poster – In Tue Poster Session A Martin Magill \cdot Faisal Qureshi \cdot Hendrick de Haan

Spectral Filtering for General Linear Dynamical Systems

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #167 Poster – In Tue Poster Session A Elad Hazan · HOLDEN LEE · Karan Singh · Cyril Zhang · Yi Zhang

Where Do You Think You're Going?: Inferring Beliefs about Dynamics from Behavior

Tue Dec 4th 10:45 AM – 12:45 PM @ Room 210 & 230 AB #168 Poster – In Tue Poster Session A Sid Reddy \cdot Anca Dragan \cdot Sergey Levine

Lunch on your own

Tue Dec 4th 12:45 – 02:15 PM @ Break –

Lunch on your own

Tue Dec 4th 12:45 – 02:15 PM @ Break –

Inclusion and Diversity Town Hall

Tue Dec 4th 01:15 - 02:15 PM @ Room 517 CD Break -

What Bodies Think About: Bioelectric Computation Outside the Nervous System, Primitive Cognition, and Synthetic Morphology

Tue Dec 4th 02:15 – 03:05 PM @ Rooms 220 CDE Invited Talk – In Tue Invited Talk 2 Michael Levin

Coffee Break

Tue Dec 4th 03:05 - 03:30 PM @ Break -

In Tue Track 1 – Session 2

Tue Dec 4th 03:30 - 03:35 PM @ Room 220 CD - Tue Dec 4th 04:55 - 05:00 PM @ Room 220 CD

Neural Voice Cloning with a Few Samples

Tue Dec 4th 03:30 – 03:35 PM @ Room 220 CD Spotlight – In Tue Track 1 – Session 2 Sercan Arik · Jitong Chen · Kainan Peng · Wei Ping · Yanqi Zhou Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #91

Answerer in Questioner's Mind: Information Theoretic Approach to Goal-Oriented Visual Dialog

Tue Dec 4th 03:35 – 03:40 PM @ Room 220 CD Spotlight – In Tue Track 1 – Session 2 Sang-Woo Lee \cdot Yu-Jung Heo \cdot Byoung-Tak Zhang Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #95

Neural-Symbolic VQA: Disentangling Reasoning from Vision and Language Understanding

Tue Dec 4th 03:40 – 03:45 PM @ Room 220 CD Spotlight – In Tue Track 1 – Session 2 Kexin Yi · Jiajun Wu · Chuang Gan · Antonio Torralba · Pushmeet Kohli · Josh Tenenbaum Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #21

Learning to Optimize Tensor Programs

Tue Dec 4th 03:45 – 03:50 PM @ Room 220 CD Spotlight – In Tue Track 1 – Session 2 Tianqi Chen - Lianmin Zheng - Eddie Yan - Ziheng Jiang - Thierry Moreau - Luis Ceze - Carlos Guestrin - Arvind Krishnamurthy Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #104

Generalisation of structural knowledge in the hippocampal-entorhinal system $\,$

Tue Dec 4th 03:50 – 04:05 PM @ Room 220 CD Oral – In Tue Track 1 – Session 2 James Whittington \cdot Timothy Muller \cdot Shirely Mark \cdot Caswell Barry \cdot Tim Behrens Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #19

A Likelihood-Free Inference Framework for Population Genetic Data using Exchangeable Neural Networks

Tue Dec 4th 04:05 – 04:10 PM @ Room 220 CD Spotlight – In Tue Track 1 – Session 2 Jeffrey Chan · Valerio Perrone · Jeffrey Spence · Paul Jenkins · Sara Mathieson · Yun Song Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #111

Generalizing Tree Probability Estimation via Bayesian Networks

Tue Dec 4th 04:10 – 04:15 PM @ Room 220 CD Spotlight – In Tue Track 1 – Session 2 Cheng Zhang \cdot Frederick A Matsen IV Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #123

Geometry Based Data Generation

Tue Dec 4th 04:15 – 04:20 PM @ Room 220 CD Spotlight – In Tue Track 1 – Session 2 Ofir Lindenbaum \cdot Jay Stanley \cdot Guy Wolf \cdot Smita Krishnaswamy Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #121

Point process latent variable models of larval zebrafish behavior $% \left(1\right) =\left(1\right) +\left(1\right) +$

Tue Dec 4th 04:20 - 04:25 PM @ Room 220 CD Spotlight – In Tue Track 1 – Session 2

Anuj Sharma · Robert Johnson · Florian Engert · Scott Linderman Poster Tue Dec 4th 05:00 - 07:00 PM @ Room 210 & 230 AB

A probabilistic population code based on neural samples

Tue Dec 4th 04:25 – 04:40 PM @ Room 220 CD

Oral – In Tue Track 1 – Session 2 Sabyasachi Shivkumar · Richard Lange · Ankani Chattoraj · Ralf

Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #26

Sparse Attentive Backtracking: Temporal Credit Assignment Through Reminding

Tue Dec 4th 04:40 – 04:45 PM @ Room 220 CD Spotlight – In Tue Track 1 – Session 2

Nan Rosemary Ke \cdot Anirudh Goyal ALIAS PARTH GOYAL \cdot Olexa Bilaniuk · Jonathan Binas · Michael Mozer · Chris Pal · Yoshua Bengio

Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #23

Learning Temporal Point Processes via Reinforcement Learning

Tue Dec 4th 04:45 - 04:50 PM @ Room 220 CD Spotlight – In Tue Track 1 – Session 2 Shuang Li · Shuai Xiao · Shixiang Zhu · Nan Du · Yao Xie · Le Song Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #124

Precision and Recall for Time Series

Tue Dec 4th 04:50 – 04:55 PM @ Room 220 CD

Spotlight - In Tue Track 1 - Session 2

Nesime Tatbul · Tae Jun Lee · Stan Zdonik · Mejbah Alam · Justin Gottschlich

Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #116

Bayesian Nonparametric Spectral Estimation

Tue Dec 4th 04:55 - 05:00 PM @ Room 220 CD

Spotlight – In Tue Track 1 – Session 2

Felipe Tobar

Poster Tue Dec 4th 05:00 - 07:00 PM @ Room 210 & 230 AB #114

In Tue Track 2 – Session 2

Tue Dec 4th 03:30 - 03:35 PM @ Room 220 E - Tue Dec 4th 04:55 - 05:00 PM @ Room 220 E

Evolved Policy Gradients

Tue Dec 4th 03:30 - 03:35 PM @ Room 220 E Spotlight - In Tue Track 2 - Session 2 Rein Houthooft · Yuhua Chen · Phillip Isola · Bradly Stadie · Filip

Wolski · Open
AI Jonathan Ho · Pieter Abbeel Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #16

Adapted Deep Embeddings: A Synthesis of Methods for k-Shot Inductive Transfer Learning

Tue Dec 4th 03:35-03:40 PM @ Room 220 E Spotlight – In Tue Track 2 – Session 2 Tyler Scott · Karl Ridgeway · Michael Mozer Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #167

Bayesian Model-Agnostic Meta-Learning

Tue Dec 4th 03:40-03:45 PM @ Room 220 E Spotlight - In Tue Track 2 - Session 2 Jaesik Yoon · Taesup Kim · Ousmane Dia · Sungwoong Kim · Yoshua Bengio · Sungjin Ahn

Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #15

Probabilistic Neural Programmed Networks for Scene Generation

Tue Dec 4th 03:45 – 03:50 PM @ Room 220 E Spotlight – In Tue Track 2 – Session 2 Zhiwei Deng · Jiacheng Chen · YIFANG FU · Greg Mori Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #7 Neural Ordinary Differential Equations

Tue Dec 4th 03:50 – 04:05 PM @ Room 220 E

Oral – In Tue Track 2 – Session 2

Tian Qi Chen · Yulia Rubanova · Jesse Bettencourt · David Duvenaud

Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #3

Bias and Generalization in Deep Generative Models: An Empirical Study

Tue Dec 4th 04:05 – 04:10 PM @ Room 220 E

Spotlight - In Tue Track 2 - Session 2

Shengjia Zhao · Hongyu Ren · Arianna Yuan · Jiaming Song · Noah Goodman · Stefano Ermon

Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #6

Robustness of conditional GANs to noisy labels

Tue Dec 4th 04:10 – 04:15 PM @ Room 220 E Spotlight – In Tue Track 2 – Session 2 Kiran Thekumparampil · Ashish Khetan · Zinan Lin · Sewoong Oh Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #5

BourGAN: Generative Networks with Metric Embeddings

Tue Dec 4th 04:15 – 04:20 PM @ Room 220 E Spotlight – In Tue Track 2 – Session 2 Chang Xiao · Peilin Zhong · Changxi Zheng Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #17

Loss Surfaces, Mode Connectivity, and Fast Ensembling of DNNs

Tue Dec 4th 04:20 – 04:25 PM @ Room 220 E

Spotlight – In Tue Track 2 – Session 2

Timur Garipov · Pavel Izmailov · Dmitrii Podoprikhin · Dmitry Vetrov · Andrew Wilson

Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #162

How Does Batch Normalization Help Optimization?

Tue Dec 4th 04:25 – 04:40 PM @ Room 220 E

Oral – In Tue Track 2 – Session 2

Shibani Santurkar · Dimitris Tsipras · Andrew Ilyas · Aleksander

Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #10

Training Neural Networks Using Features Replay

Tue Dec 4th 04:40 - 04:45 PM @ Room 220 E Spotlight - In Tue Track 2 - Session 2

Zhouyuan Huo · Bin Gu · Heng Huang

Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #12

Step Size Matters in Deep Learning

Tue Dec 4th 04:45 - 04:50 PM @ Room 220 E Spotlight - In Tue Track 2 - Session 2

Kamil Nar · Shankar Sastry

Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #8

Neural Tangent Kernel: Convergence and Generalization in Neural Networks

Tue Dec 4th 04:50-04:55 PM @ Room 220 E

 $Spotlight-In\ Tue\ Track\ 2-Session\ 2$

Arthur Jacot-Guillarmod \cdot Clement Hongler \cdot Franck Gabriel

Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #9

Hierarchical Graph Representation Learning with Differentiable

Tue Dec 4th 04:55 – 05:00 PM @ Room 220 E

Spotlight - In Tue Track 2 - Session 2

Zhitao Ying \cdot Jiaxuan You \cdot Christopher Morris \cdot Xiang Ren \cdot Will Hamilton \cdot Jure Leskovec

Poster Tue Dec 4th 05:00 - 07:00 PM @ Room 210 & 230 AB #14

In Tue Track 3 – Session 2

Tue Dec 4th 03:30 - 03:35 PM @ Room 517 CD - Tue Dec 4th 04:55 - 05:00 PM @ Room 517 CD

Differentially Private Testing of Identity and Closeness of Discrete Distributions

Tue Dec 4th 03:30 – 03:35 PM @ Room 517 CD Spotlight – In Tue Track 3 – Session 2 Jayadev Acharya · Ziteng Sun · Huanyu Zhang Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #151

Local Differential Privacy for Evolving Data

Tue Dec 4th 03:35 – 03:40 PM @ Room 517 CD Spotlight – In Tue Track 3 – Session 2 Matthew Joseph · Aaron Roth · Jonathan Ullman · Bo Waggoner Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #153

Differentially Private k-Means with Constant Multiplicative Error

Tue Dec 4th 03:40 – 03:45 PM @ Room 517 CD Spotlight – In Tue Track 3 – Session 2 Uri Stemmer \cdot Haim Kaplan Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #152

A Spectral View of Adversarially Robust Features

Tue Dec 4th 03:45 – 03:50 PM @ Room 517 CD Spotlight – In Tue Track 3 – Session 2 Shivam Garg · Vatsal Sharan · Brian Zhang · Gregory Valiant Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #156

Model-Agnostic Private Learning

Tue Dec 4th 03:50 – 04:05 PM @ Room 517 CD Oral – In Tue Track 3 – Session 2 Raef Bassily · Abhradeep Guha Thakurta · Om Dipakbhai Thakkar Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #30

Bounded-Loss Private Prediction Markets

Tue Dec 4th 04:05 – 04:10 PM @ Room 517 CD Spotlight – In Tue Track 3 – Session 2 Rafael Frongillo \cdot Bo Waggoner Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #28

cpSGD: Communication-efficient and differentially-private distributed SGD

Tue Dec 4th 04:10 – 04:15 PM @ Room 517 CD Spotlight – In Tue Track 3 – Session 2 Naman Agarwal · Ananda Theertha Suresh · Felix Xinnan Yu · Sanjiv Kumar · Brendan McMahan Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #27

Adversarially Robust Generalization Requires More Data

Tue Dec 4th 04:15 – 04:20 PM @ Room 517 CD Spotlight – In Tue Track 3 – Session 2 Ludwig Schmidt · Shibani Santurkar · Dimitris Tsipras · Kunal Talwar · Aleksander Madry Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #31

${\tt Attracks\ Meet\ Interpretability:\ Attribute-steered\ Detection\ of\ Adversarial\ Samples}$

Tue Dec 4th 04:20 – 04:25 PM @ Room 517 CD Spotlight – In Tue Track 3 – Session 2 Guanhong Tao \cdot Shiqing Ma \cdot Yingqi Liu \cdot Xiangyu Zhang Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #99

Learning to Solve SMT Formulas

Tue Dec 4th 04:25 – 04:40 PM @ Room 517 CD Oral – In Tue Track 3 – Session 2 Mislav Balunovic · Pavol Bielik · Martin Vechev Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #105

Towards Robust Detection of Adversarial Examples

Tue Dec 4th 04:40 – 04:45 PM @ Room 517 CD Spotlight – In Tue Track 3 – Session 2 Tianyu Pang · Chao Du · Yinpeng Dong · Jun Zhu Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #11

Neural Architecture Search with Bayesian Optimisation and Optimal Transport

Tue Dec 4th 04:45 – 04:50 PM @ Room 517 CD Spotlight – In Tue Track 3 – Session 2 Kirthevasan Kandasamy · Willie Neiswanger · Jeff Schneider · Barnabas Poczos · Eric Xing Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #166

Data-Driven Clustering via Parameterized Lloyd's Families

Tue Dec 4th 04:50 – 04:55 PM @ Room 517 CD Spotlight – In Tue Track 3 – Session 2 Maria-Florina Balcan \cdot Travis Dick \cdot Colin White Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #160

Supervising Unsupervised Learning

Tue Dec 4th 04:55 – 05:00 PM @ Room 517 CD Spotlight – In Tue Track 3 – Session 2 Vikas Garg \cdot Adam Kalai Poster Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #164

In Tue Poster Session B

Point process latent variable models of larval zebrafish behavior

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB Poster – In Tue Poster Session B Anuj Sharma · Robert Johnson · Florian Engert · Scott Linderman

Provably Correct Automatic Sub-Differentiation for Qualified Programs

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #2 Poster – In Tue Poster Session B Sham Kakade \cdot Jason Lee

Neural Ordinary Differential Equations

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #3 Poster – In Tue Poster Session B Tian Qi Chen · Yulia Rubanova · Jesse Bettencourt · David Duvenaud

Information Constraints on Auto-Encoding Variational Bayes

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #4 Poster – In Tue Poster Session B Romain Lopez \cdot Jeffrey Regier \cdot Michael Jordan \cdot Nir Yosef

Robustness of conditional GANs to noisy labels

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #5 Poster – In Tue Poster Session B Kiran Thekumparampil · Ashish Khetan · Zinan Lin · Sewoong Oh

Bias and Generalization in Deep Generative Models: An Empirical Study $\,$

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #6 Poster – In Tue Poster Session B Shengjia Zhao · Hongyu Ren · Arianna Yuan · Jiaming Song · Noah Goodman · Stefano Ermon

Probabilistic Neural Programmed Networks for Scene Generation

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #7 Poster – In Tue Poster Session B Zhiwei Deng \cdot Jiacheng Chen \cdot YIFANG FU \cdot Greg Mori

Step Size Matters in Deep Learning

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #8 Poster – In Tue Poster Session B

Kamil Nar \cdot Shankar Sastry

Neural Tangent Kernel: Convergence and Generalization in

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #9 Poster - In Tue Poster Session B Arthur Jacot-Guillarmod · Clement Hongler · Franck Gabriel

How Does Batch Normalization Help Optimization?

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #10 Poster – In Tue Poster Session B Shibani Santurkar \cdot Dimitris Tsipras \cdot Andrew Ilyas \cdot Aleksander Madry

Towards Robust Detection of Adversarial Examples

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #11 Poster – In Tue Poster Session B Tianyu Pang \cdot Chao Du
 \cdot Yinpeng Dong \cdot Jun Zhu

Training Neural Networks Using Features Replay

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #12 Poster – In Tue Poster Session B Zhouyuan Huo · Bin Gu · Heng Huang

Faster Neural Networks Straight from JPEG

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #13 Poster - In Tue Poster Session B Lionel Gueguen · Alex Sergeev · Ben Kadlec · Rosanne Liu · Jason Yosinski

Hierarchical Graph Representation Learning with Differentiable

Tue Dec 4th 05:00 - 07:00 PM @ Room 210 & 230 AB #14 Poster - In Tue Poster Session B Zhitao Ying \cdot Jiaxuan You \cdot Christopher Morris \cdot Xiang Ren \cdot Will ${\bf Hamilton\cdot Jure\ Leskovec}$

Bayesian Model-Agnostic Meta-Learning

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #15 Poster – In Tue Poster Session B Jaesik Yoon · Taesup Kim · Ousmane Dia · Sungwoong Kim · Yoshua Bengio · Sungjin Ahn

Evolved Policy Gradients

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #16 Poster – In Tue Poster Session B Rein Houthooft · Yuhua Chen · Phillip Isola · Bradly Stadie · Filip Wolski \cdot OpenAI Jonathan Ho \cdot Pieter Abbeel

BourGAN: Generative Networks with Metric Embeddings

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #17 Poster – In Tue Poster Session B Chang Xiao · Peilin Zhong · Changxi Zheng

Scalable End-to-End Autonomous Vehicle Testing via Rare-event

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #18 Poster – In Tue Poster Session B Matthew O'Kelly · Aman Sinha · Hongseok Namkoong · Russ Tedrake · John Duchi

Generalisation of structural knowledge in the hippocampal-entorhinal system

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #19 Poster – In Tue Poster Session B James Whittington \cdot Timothy Muller \cdot Shirely Mark \cdot Caswell Barry · Tim Behrens

Task-Driven Convolutional Recurrent Models of the Visual System

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #20 Poster – In Tue Poster Session B Aran Nayebi · Daniel Bear · Jonas Kubilius · Kohitij Kar · Surya Ganguli · David Sussillo · James J DiCarlo · Daniel Yamins

Neural-Symbolic VQA: Disentangling Reasoning from Vision and Language Understanding

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #21 Poster – In Tue Poster Session B Kexin Yi · Jiajun Wu · Chuang Gan · Antonio Torralba · Pushmeet Kohli · Josh Tenenbaum

Extracting Relationships by Multi-Domain Matching

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #22 Poster – In Tue Poster Session B Yitong Li \cdot michael Murias \cdot geraldine Dawson \cdot David Carlson

Sparse Attentive Backtracking: Temporal Credit Assignment Through Reminding

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #23 Poster – In Tue Poster Session B Nan Rosemary Ke \cdot Anirudh Goyal ALIAS PARTH GOYAL \cdot Olexa Bilaniuk - Jonathan Binas - Michael Mozer - Chris Pal - Yoshua Bengio

Beauty-in-averageness and its contextual modulations: $\ensuremath{\mathtt{A}}$ Bayesian statistical account

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #24 Poster – In Tue Poster Session B Chaitanya Ryali · Angela J Yu

Stimulus domain transfer in recurrent models for large scale cortical population prediction on video

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #25 Poster – In Tue Poster Session B Fabian Sinz · Alexander Ecker · Paul Fahey · Edgar Walker · Erick Cobos · Emmanouil Froudarakis · Dimitri Yatsenko · Zachary Pitkow · Jacob Reimer · Andreas Tolias

A probabilistic population code based on neural samples

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #26 Poster – In Tue Poster Session B Sabyasachi Shivkumar · Richard Lange · Ankani Chattoraj · Ralf Haefner

${\tt cpSGD:} \ {\tt Communication-efficient} \ {\tt and} \ {\tt differentially-private}$ distributed SGD

Tue Dec 4th 05:00 - 07:00 PM @ Room 210 & 230 AB #27 Poster – In Tue Poster Session B Naman Agarwal · Ananda Theertha Suresh · Felix Xinnan Yu · Sanjiv Kumar · Brendan McMahan

Bounded-Loss Private Prediction Markets

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #28 Poster – In Tue Poster Session B Rafael Frongillo · Bo Waggoner

Ex ante coordination and collusion in zero-sum multi-player extensive-form games

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #29 Poster – In Tue Poster Session B Gabriele Farina · Andrea Celli · Nicola Gatti · Tuomas Sandholm

Model-Agnostic Private Learning

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #30 Poster – In Tue Poster Session B Raef Bassily · Abhradeep Guha Thakurta · Om Dipakbhai Thakkar

Adversarially Robust Generalization Requires More Data

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #31 Poster – In Tue Poster Session B

Ludwig Schmidt · Shibani Santurkar · Dimitris Tsipras · Kunal Talwar · Aleksander Madry

Bayesian Pose Graph Optimization via Bingham Distributions and Tempered Geodesic MCMC

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #32 Poster – In Tue Poster Session B

Tolga Birdal · Umut Simsekli · Mustafa Onur Eken · Slobodan Ilic

A Statistical Recurrent Model on the Manifold of Symmetric Positive Definite Matrices

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #33 Poster – In Tue Poster Session B

Rudrasis Chakraborty · Chun-Hao Yang · Xingjian Zhen · Monami Banerjee · Derek Archer · David Vaillancourt · Vikas Singh · Baba Vemuri

Designing by Training: Acceleration Neural Network for Fast ${\tt High-Dimensional}$ Convolution

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #34 Poster – In Tue Poster Session B Longquan Dai \cdot Liang Tang \cdot Yuan Xie \cdot Jinhui Tang

Greedy Hash: Towards Fast Optimization for Accurate Hash Coding in CNN

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #35 Poster – In Tue Poster Session B Shupeng Su \cdot Chao Zhang \cdot Kai Han \cdot Yonghong Tian

$\label{thm:constraint} \mbox{Generative Probabilistic Novelty Detection with Adversarial } \mbox{Autoencoders}$

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #36 Poster – In Tue Poster Session B Stanislav Pidhorskyi · Ranya Almohsen · Gianfranco Doretto

Joint Sub-bands Learning with Clique Structures for Wavelet Domain Super-Resolution

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #37 Poster – In Tue Poster Session B Zhisheng Zhong · Tiancheng Shen · Yibo Yang · Zhouchen Lin · Chao Zhang

Compact Generalized Non-local Network

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #38 Poster – In Tue Poster Session B Kaiyu Yue · Ming Sun · Yuchen Yuan · Feng Zhou · Errui Ding · Fuxin Xu

BinGAN: Learning Compact Binary Descriptors with a Regularized GAN

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #39 Poster – In Tue Poster Session B Maciej Zieba · Piotr Semberecki · Tarek El-Gaaly · Tomasz Trzcinski

RenderNet: A deep convolutional network for differentiable rendering from 3D shapes $\,$

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #40 Poster – In Tue Poster Session B Thu H Nguyen-Phuoc · Chuan Li · Stephen Balaban · Yongliang Yang

LF-Net: Learning Local Features from Images

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #41 Poster – In Tue Poster Session B Yuki Ono \cdot Eduard Trulls \cdot Pascal Fua \cdot Kwang Moo Yi

Unsupervised Learning of Shape and Pose with Differentiable Point Clouds

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #42 Poster – In Tue Poster Session B Eldar Insafutdinov \cdot Alexey Dosovitskiy

Modelling and unsupervised learning of symmetric deformable object categories

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #43 Poster – In Tue Poster Session B James Thewlis \cdot Hakan Bilen \cdot Andrea Vedaldi

Multi-View Silhouette and Depth Decomposition for High Resolution 3D Object Representation

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #44 Poster – In Tue Poster Session B Edward Smith \cdot Scott Fujimoto \cdot David Meger

Image Inpainting via Generative Multi-column Convolutional Neural Networks

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #45 Poster – In Tue Poster Session B Yi Wang \cdot Xin Tao \cdot Xiaojuan Qi \cdot Xiaoyong Shen \cdot Jiaya Jia

Beyond Grids: Learning Graph Representations for Visual Recognition

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #46 Poster – In Tue Poster Session B Yin Li \cdot Abhinav Gupta

Foreground Clustering for Joint Segmentation and Localization in Videos and Images

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #47 Poster – In Tue Poster Session B Abhishek Sharma

LinkNet: Relational Embedding for Scene Graph

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #48 Poster – In Tue Poster Session B Sanghyun Woo \cdot Dahun Kim \cdot Donghyeon Cho \cdot In So Kweon

${\tt Context-aware\ Synthesis\ and\ Placement\ of\ Object\ Instances}$

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #49 Poster – In Tue Poster Session B Donghoon Lee · Ming-Yu Liu · Ming-Hsuan Yang · Sifei Liu · Jinwei Gu · Jan Kautz

Geometry-Aware Recurrent Neural Networks for Active Visual Recognition

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #50 Poster – In Tue Poster Session B Ricson Cheng \cdot Ziyan Wang \cdot Katerina Fragkiadaki

See and Think: Disentangling Semantic Scene Completion

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #51 Poster – In Tue Poster Session B Shice Liu · YU HU · Yiming Zeng · Qiankun Tang · Beibei Jin · Yinhe Han · Xiaowei Li

Active Matting

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #52 Poster – In Tue Poster Session B Xin Yang · Ke Xu · Shaozhe Chen · Shengfeng He · Baocai Yin Yin · Rynson Lau

A Unified Feature Disentangler for Multi-Domain Image Translation and Manipulation

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #53 Poster – In Tue Poster Session B Alexander H. Liu · Yen-Cheng Liu · Yu-Ying Yeh · Yu-Chiang Frank Wang

Turbo Learning for CaptionBot and DrawingBot

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #54 Poster – In Tue Poster Session B Qiuyuan Huang · Pengchuan Zhang · Dapeng Wu · Lei Zhang

Dialog-based Interactive Image Retrieval

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #55 Poster – In Tue Poster Session B Xiaoxiao Guo · Hui Wu · Yu Cheng · Steven Rennie · Gerald Tesauro · Rogerio Feris

Hybrid Retrieval-Generation Reinforced Agent for Medical Image Report Generation

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #56 Poster – In Tue Poster Session B Yuan Li \cdot Xiaodan Liang \cdot Zhiting Hu \cdot Eric Xing

Sequential Context Encoding for Duplicate Removal

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #57 Poster – In Tue Poster Session B Lu Qi · Shu Liu · Jianping Shi · Jiaya Jia

Hybrid Knowledge Routed Modules for Large-scale Object Detection

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #58 Poster – In Tue Poster Session B ChenHan Jiang \cdot Hang Xu \cdot Xiaodan Liang \cdot Liang Lin

SNIPER: Efficient Multi-Scale Training

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #59 Poster – In Tue Poster Session B Bharat Singh \cdot Mahyar Najibi \cdot Larry Davis

Revisiting Multi-Task Learning with ROCK: a Deep Residual Auxiliary Block for Visual Detection

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #60 Poster – In Tue Poster Session B Taylor Mordan \cdot Nicolas THOME \cdot Gilles Henaff \cdot Matthieu Cord

MetaAnchor: Learning to Detect Objects with Customized Anchors

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #61 Poster – In Tue Poster Session B Tong Yang · Xiangyu Zhang · Zeming Li · Wenqiang Zhang · Jian Sun

Learning Hierarchical Semantic Image Manipulation through Structured Representations

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB Poster – In Tue Poster Session B Seunghoon Hong · Xinchen Yan · Thomas Huang · Honglak Lee

Cooperative Holistic Scene Understanding: Unifying 3D Object, Layout, and Camera Pose Estimation

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #63 Poster – In Tue Poster Session B Siyuan Huang · Siyuan Qi · Yinxue Xiao · Yixin Zhu · Ying Nian Wu · Song-Chun Zhu

3D-Aware Scene Manipulation via Inverse Graphics

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #64 Poster – In Tue Poster Session B Shunyu Yao · Tzu Ming Hsu · Jun-Yan Zhu · Jiajun Wu · Antonio Torralba · Bill Freeman · Josh Tenenbaum

FD-GAN: Pose-guided Feature Distilling GAN for Robust Person Re-identification

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #65 Poster – In Tue Poster Session B Yixiao Ge · Zhuowan Li · Haiyu Zhao · Guojun Yin · Shuai Yi · Xiaogang Wang · hongsheng Li

Sequence-to-Segment Networks for Segment Detection

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #66 Poster – In Tue Poster Session B Zijun Wei · Boyu Wang · Minh Hoai Nguyen · Jianming Zhang · Zhe Lin · Xiaohui Shen · Radomir Mech · Dimitris Samaras

Stacked Semantics-Guided Attention Model for Fine-Grained Zero-Shot Learning

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #67 Poster – In Tue Poster Session B yunlong yu \cdot Zhong Ji \cdot Yanwei Fu \cdot Jichang Guo \cdot Yanwei Pang \cdot Zhongfei (Mark) Zhang

DeepExposure: Learning to Expose Photos with Asynchronously Reinforced Adversarial Learning

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #68 Poster – In Tue Poster Session B Runsheng Yu \cdot Wenyu Liu \cdot Yasen Zhang \cdot Zhi Qu \cdot Deli Zhao \cdot Bo Zhang

Self-Erasing Network for Integral Object Attention

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #69 Poster – In Tue Poster Session B Qibin Hou \cdot PengTao Jiang \cdot Yunchao Wei \cdot Ming-Ming Cheng

Searching for Efficient Multi-Scale Architectures for Dense Image Prediction

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #70 Poster – In Tue Poster Session B Maxwell Collins · Maxwell Collins · Yukun Zhu · George Papandreou · Barret Zoph · Florian Schroff · Bo Chen · Jon Shlens

DifNet: Semantic Segmentation by Diffusion Networks

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #71 Poster – In Tue Poster Session B Peng Jiang · Fanglin Gu · Yunhai Wang · Changhe Tu · Baoquan Chen

Learning a High Fidelity Pose Invariant Model for High-resolution Face Frontalization

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #72 Poster – In Tue Poster Session B Jie Cao · Yibo Hu · Hongwen Zhang · Ran He · Zhenan Sun

Attention in Convolutional LSTM for Gesture Recognition

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #73 Poster – In Tue Poster Session B Liang Zhang \cdot Guangming Zhu \cdot Lin Mei \cdot Peiyi Shen \cdot Syed Afaq Ali Shah \cdot Mohammed Bennamoun

${\tt Partially-Supervised\ Image\ Captioning}$

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #74 Poster – In Tue Poster Session B Peter Anderson \cdot Stephen Gould \cdot Mark Johnson

Learning to Specialize with Knowledge Distillation for Visual Question Answering

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #75 Poster – In Tue Poster Session B Jonghwan Mun \cdot Kimin Lee \cdot Jinwoo Shin \cdot Bohyung Han

Chain of Reasoning for Visual Question Answering

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #76 Poster – In Tue Poster Session B Chenfei Wu \cdot Jinlai Liu \cdot Xiaojie Wang \cdot Xuan Dong

Learning Conditioned Graph Structures for Interpretable Visual Question Answering

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #77 Poster – In Tue Poster Session B Will Norcliffe-Brown \cdot Stathis Vafeias \cdot Sarah Parisot

Out of the Box: Reasoning with Graph Convolution Nets for Factual Visual Question Answering

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #78Poster – In Tue Poster Session B Medhini Narasimhan · Svetlana Lazebnik · Alexander Schwing

Overcoming Language Priors in Visual Question Answering with Adversarial Regularization

Tue Dec 4th 05:00 - 07:00 PM @ Room 210 & 230 AB #79 Poster - In Tue Poster Session B

Sainandan Ramakrishnan \cdot Aishwarya Agrawal \cdot Stefan Lee

Non-Local Recurrent Network for Image Restoration

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #80 Poster - In Tue Poster Session B

 Ding Liu \cdot Bihan Wen \cdot Yuchen Fan \cdot Chen Change Loy \cdot Thomas Huang

Neural Nearest Neighbors Networks

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #81 Poster – In Tue Poster Session B Tobias Pl?tz · Stefan Roth

Training deep learning based denoisers without ground truth

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #82 Poster – In Tue Poster Session B Shakarim Soltanayev \cdot Se Young Chun

Adversarial Regularizers in Inverse Problems

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #83 Poster - In Tue Poster Session B Sebastian Lunz · Carola Schoenlieb · Ozan ?ktem

Densely Connected Attention Propagation for Reading

Tue Dec 4th 05:00 - 07:00 PM @ Room 210 & 230 AB #84 Poster – In Tue Poster Session B

Yi Tay · Anh Tuan Luu · Siu Cheung Hui · Jian Su

Layer-Wise Coordination between Encoder and Decoder for Neural Machine Translation

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #85 Poster – In Tue Poster Session B Tianyu He · Xu Tan · Yingce Xia · Di He · Tao Qin · Zhibo Chen · Tie-Yan Liu

e-SNLI: Natural Language Inference with Natural Language Explanations

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #86 Poster - In Tue Poster Session B

Oana-Maria Camburu · Tim Rockt?
schel · Thomas Lukasiewicz · Phil Blunsom

The challenge of realistic music generation: modelling raw

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #87 Poster - In Tue Poster Session B Sander Dieleman \cdot Aaron van den Oord \cdot Karen Simonyan

Fully Neural Network Based Speech Recognition on Mobile and Embedded Devices

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #88 Poster - In Tue Poster Session B Jinhwan Park · Yoonho Boo · Iksoo Choi · Sungho Shin · Wonyong

Transfer Learning from Speaker Verification to Multispeaker Text-To-Speech Synthesis

Tue Dec 4th 05:00 - 07:00 PM @ Room 210 & 230 AB #89 Poster – In Tue Poster Session B Ye Jia · Yu Zhang · Ron Weiss · Quan Wang · Jonathan Shen · Fei Ren \cdot zhifeng Chen \cdot Patrick Nguyen \cdot Ruoming Pang \cdot Ignacio Lopez Moreno \cdot Yonghui Wu

SING: Symbol-to-Instrument Neural Generator

Tue Dec 4th 05:00 - 07:00 PM @ Room 210 & 230 AB #90 Poster - In Tue Poster Session B Alexandre Defossez · Neil Zeghidour · Nicolas Usunier · Leon Bottou · Francis Bach

Neural Voice Cloning with a Few Samples

Tue Dec 4th 05:00 - 07:00 PM @ Room 210 & 230 AB #91 Poster – In Tue Poster Session B Sercan Arik - Jitong Chen - Kainan Peng - Wei Ping - Yanqi Zhou

GroupReduce: Block-Wise Low-Rank Approximation for Neural Language Model Shrinking

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #92 Poster – In Tue Poster Session B Patrick Chen · Si Si · Yang Li · Ciprian Chelba · Cho-Jui Hsieh

Dialog-to-Action: Conversational Question Answering Over a Large-Scale Knowledge Base

Tue Dec 4th 05:00 - 07:00 PM @ Room 210 & 230 AB #93 Poster – In Tue Poster Session B Daya Guo \cdot Duyu Tang \cdot Nan Duan \cdot Ming Zhou \cdot Jian Yin

Generating Informative and Diverse Conversational Responses via Adversarial Information Maximization

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #94Poster – In Tue Poster Session B Yizhe Zhang · Michel Galley · Jianfeng Gao · Zhe Gan · Xiujun Li · Chris Brockett \cdot Bill Dolan

Answerer in Questioner's Mind: Information Theoretic Approach to Goal-Oriented Visual Dialog

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #95 Poster – In Tue Poster Session B Sang-Woo Lee · Yu-Jung Heo · Byoung-Tak Zhang

Trajectory Convolution for Action Recognition

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #96 Poster – In Tue Poster Session B Yue Zhao · Guneet Singh Dhillon · Dahua Lin

Video Prediction via Selective Sampling

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #97 Poster – In Tue Poster Session B Jingwei Xu \cdot Bingbing Ni \cdot Xiaokang Yang

Unsupervised Learning of Artistic Styles with Archetypal Style

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #98 Poster - In Tue Poster Session B Daan Wynen \cdot Cordelia Schmid \cdot Julien Mairal

Attacks Meet Interpretability: Attribute-steered Detection of Adversarial Samples

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #99 Poster – In Tue Poster Session B Guanhong Tao · Shiqing Ma · Yingqi Liu · Xiangyu Zhang

Speaker-Follower Models for Vision-and-Language Navigation

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #100 Poster – In Tue Poster Session B Daniel Fried · Ronghang Hu · Volkan Cirik · Anna Rohrbach · Jacob Andreas · Louis-Philippe Morency · Taylor Berg-Kirkpatrick · Kate Saenko · Dan Klein · Trevor Darrell

Neural Code Comprehension: A Learnable Representation of Code Semantics

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #101 Poster – In Tue Poster Session B

Tal Ben-Nun · Alice Shoshana Jakobovits · Torsten Hoefler

MiME: Multilevel Medical Embedding of Electronic Health Records for Predictive Healthcare

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #102 Poster – In Tue Poster Session B

Edward Choi · Cao Xiao · Walter Stewart · Jimeng Sun

Distilled Wasserstein Learning for Word Embedding and Topic Modeling

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #103 Poster - In Tue Poster Session B

Hongteng Xu \cdot Wenlin Wang \cdot Wei Liu \cdot Lawrence Carin

Learning to Optimize Tensor Programs

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #104 Poster – In Tue Poster Session B

Tianqi Chen \cdot Lianmin Zheng \cdot Eddie Yan \cdot Ziheng Jiang \cdot Thierry ${\bf Moreau \cdot Luis \; Ceze \cdot Carlos \; Guestrin \cdot Arvind \; Krishnamurthy}$

Learning to Solve SMT Formulas

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #105 Poster – In Tue Poster Session B

Mislav Balunovic · Pavol Bielik · Martin Vechev

Data center cooling using model-predictive control

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #106 Poster – In Tue Poster Session B

Nevena Lazic · Craig Boutilier · Tyler Lu · Eehern Wong · Binz Roy \cdot MK Ryu \cdot Greg Imwalle

Bayesian Inference of Temporal Task Specifications from Demonstrations

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #107 Poster – In Tue Poster Session B

Ankit Shah \cdot Pritish Kamath \cdot Julie A Shah \cdot Shen Li

Training Deep Neural Networks with 8-bit Floating Point Numbers

Tue Dec 4th 05:00 - 07:00 PM @ Room 210 & 230 AB #108 Poster – In Tue Poster Session B

Naigang Wang \cdot Jungwook Choi \cdot Daniel Brand \cdot Chia-Yu Chen \cdot Kailash Gopalakrishnan

Snap ML: A Hierarchical Framework for Machine Learning

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #109

Poster - In Tue Poster Session B

Celestine D?
nner · Thomas Parnell · Dimitrios Sarigiannis · Nikolas Ioannou · Andreea Anghel · Gummadi Ravi · Madhusudanan Kan-

dasamy \cdot Haralampos Pozidis

Learning filter widths of spectral decompositions with wavelets

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #110 Poster – In Tue Poster Session B

Haidar Khan · Bulent Yener

A Likelihood-Free Inference Framework for Population Genetic Data using Exchangeable Neural Networks

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #111 Poster – In Tue Poster Session B

Jeffrey Chan · Valerio Perrone · Jeffrey Spence · Paul Jenkins · Sara Mathieson · Yun Song

Latent Gaussian Activity Propagation: Using Smoothness and Structure to Separate and Localize Sounds in Large Noisy Environments

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #112

 Poster – In Tue Poster Session B Daniel Johnson · Daniel Gorelik · Ross E Mawhorter · Kyle Suver · Weiqing Gu · Steven Xing · Cody Gabriel · Peter Sankhagowit

Inferring Latent Velocities from Weather Radar Data using Gaussian Processes

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #113

Poster - In Tue Poster Session B Rico Angell \cdot Daniel Sheldon

Bayesian Nonparametric Spectral Estimation

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #114

Poster – In Tue Poster Session B

Felipe Tobar

Learning a Warping Distance from Unlabeled Time Series Using Sequence Autoencoders

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #115 Poster – In Tue Poster Session B Abubakar Abid \cdot James Zou

Precision and Recall for Time Series

Tue Dec 4th 05:00 - 07:00 PM @ Room 210 & 230 AB #116

Poster – In Tue Poster Session B

Nesime Tatbul · Tae Jun Lee · Stan Zdonik · Mejbah Alam · Justin

Gottschlich

Deep Generative Markov State Models

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #117

Poster – In Tue Poster Session B

Hao Wu \cdot Andreas Mardt \cdot Luca Pasquali \cdot Frank Noe

Doubly Robust Bayesian Inference for Non-Stationary Streaming Data with \$\beta\$-Divergences

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #118

Poster - In Tue Poster Session B

Jeremias Knoblauch \cdot Jack E
 Jewson \cdot Theodoros Damoulas

Regularization Learning Networks: Deep Learning for Tabular Datasets

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #119

Poster – In Tue Poster Session B

Ira Shavitt - Eran Segal

Generative modeling for protein structures

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #120

Poster - In Tue Poster Session B

Namrata Anand · Possu Huang

Geometry Based Data Generation

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #121

Poster – In Tue Poster Session B

Ofir Lindenbaum \cdot Jay Stanley \cdot Guy Wolf \cdot Smita Krishnaswamy

Learning Concave Conditional Likelihood Models for Improved Analysis of Tandem Mass Spectra

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #122

Poster – In Tue Poster Session B

John T Halloran · David M Rocke

Generalizing Tree Probability Estimation via Bayesian Networks

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #123 Poster – In Tue Poster Session B

Cheng Zhang · Frederick A Matsen IV

Learning Temporal Point Processes via Reinforcement Learning

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #124

Poster – In Tue Poster Session B Shuang Li \cdot Shua
i Xiao \cdot Shixiang Zhu \cdot Nan Du \cdot Yao Xie
 \cdot Le Song

Exponentially Weighted Imitation Learning for Batched Historical Data

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #125 Poster – In Tue Poster Session B

 Qing Wang \cdot Jiechao Xiong \cdot Lei Han \cdot peng sun \cdot Han Liu \cdot Tong Zhang

Evidential Deep Learning to Quantify Classification Uncertainty

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #126 Poster – In Tue Poster Session B

Murat Sensoy \cdot Lance Kaplan \cdot Melih Kandemir

Explanations based on the Missing: Towards Contrastive Explanations with Pertinent Negatives

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #127 Poster – In Tue Poster Session B Amit Dhurandhar · Pin-Yu Chen · Ronny Luss · Chun-Chen Tu ·

Paishun Ting · Karthikeyan Shanmugam · Payel Das

${\tt Towards\ Robust\ Interpretability\ with\ Self-Explaining\ Neural}$ Networks

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #128 Poster – In Tue Poster Session B David Alvarez Melis · Tommi Jaakkola

Model Agnostic Supervised Local Explanations

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #129 Poster – In Tue Poster Session B Gregory Plumb \cdot Denali Molitor \cdot Ameet Talwalkar

To Trust Or Not To Trust A Classifier

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #130 Poster – In Tue Poster Session B Heinrich Jiang · Been Kim · Melody Guan · Maya Gupta

Predict Responsibly: Improving Fairness and Accuracy by Learning to Defer

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #131 Poster – In Tue Poster Session B David Madras · Toni Pitassi · Richard Zemel

Hunting for Discriminatory Proxies in Linear Regression Models

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #132 Poster - In Tue Poster Session B Samuel Yeom \cdot Anupam Datta \cdot Matt Fredrikson

Empirical Risk Minimization Under Fairness Constraints

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #133 Poster – In Tue Poster Session B Michele Donini · Luca Oneto · Shai Ben-David · John Shawe-Taylor · Massimiliano Pontil

Approximation algorithms for stochastic clustering

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #134 Poster - In Tue Poster Session B David Harris · Shi Li · Aravind Srinivasan · Khoa Trinh · Thomas

Re-evaluating evaluation

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #135 Poster – In Tue Poster Session B David Balduzzi · Karl Tuyls · Julien Perolat · Thore Graepel

Does mitigating $\mbox{ML's}$ impact disparity require treatment disparity?

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #136 Poster – In Tue Poster Session B Zachary Lipton · Julian McAuley · Alexandra Chouldechova

Enhancing the Accuracy and Fairness of Human Decision Making

Tue Dec 4th 05:00 - 07:00 PM @ Room 210 & 230 AB #137 Poster – In Tue Poster Session B Isabel Valera · Adish Singla · Manuel Gomez Rodriguez

The Price of Fair PCA: One Extra dimension

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #138 Poster – In Tue Poster Session B Samira Samadi · Uthaipon Tantipongpipat · Jamie Morgenstern · Mohit Singh · Santosh Vempala

Practical Methods for Graph Two-Sample Testing

Tue Dec 4th 05:00 - 07:00 PM @ Room 210 & 230 AB #139 Poster - In Tue Poster Session B Debarghya Ghoshdastidar · Ulrike von Luxburg

Topkapi: Parallel and Fast Sketches for Finding Top-K Frequent

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #140 Poster – In Tue Poster Session B Ankush Mandal \cdot He
 Jiang \cdot Anshumali Shrivastava \cdot Vivek Sarkar

KDGAN: Knowledge Distillation with Generative Adversarial Networks

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #141 Poster – In Tue Poster Session B Xiaojie Wang · Rui Zhang · Yu Sun · Jianzhong Qi

Modeling Dynamic Missingness of Implicit Feedback for

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #142 Poster – In Tue Poster Session B Menghan Wang \cdot Mingming Gong \cdot Xiaolin Zheng \cdot Kun Zhang

Gamma-Poisson Dynamic Matrix Factorization Embedded with Metadata Influence

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #143 Poster – In Tue Poster Session B Trong Dinh Thac Do · Longbing Cao

Non-metric Similarity Graphs for Maximum Inner Product Search

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #144 Poster - In Tue Poster Session B Stanislav Morozov · Artem Babenko

Norm-Ranging LSH for Maximum Inner Product Search

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #145 Poster – In Tue Poster Session B Xiao Yan \cdot Jinfeng Li \cdot Xinyan Dai \cdot Hongzhi Chen \cdot James Cheng

A Dual Framework for Low-rank Tensor Completion

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #146 Poster – In Tue Poster Session B Madhav Nimishakavi \cdot Pratik Kumar Jawanpuria \cdot Bamdev Mishra

Low-Rank Tucker Decomposition of Large Tensors Using TensorSketch

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #147 Poster – In Tue Poster Session B Osman Asif Malik · Stephen Becker

Dropping Symmetry for Fast Symmetric Nonnegative Matrix

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #148 Poster – In Tue Poster Session B Zhihui Zhu \cdot Xiao Li \cdot Kai Liu \cdot Qiuwei Li

Semidefinite relaxations for certifying robustness to adversarial examples

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #149 Poster – In Tue Poster Session B Aditi Raghunathan · Jacob Steinhardt · Percy Liang

Privacy Amplification by Subsampling: Tight Analyses via Couplings and Divergences

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #150 Poster – In Tue Poster Session B Borja Balle \cdot Gilles Barthe \cdot Marco Gaboardi

Differentially Private Testing of Identity and Closeness of Discrete Distributions $% \left\{ 1,2,\ldots ,2,3,\ldots \right\}$

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #151 Poster – In Tue Poster Session B Jayadev Acharya \cdot Ziteng Sun \cdot Huanyu Zhang

Differentially Private k-Means with Constant Multiplicative Error

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #152 Poster – In Tue Poster Session B Uri Stemmer \cdot Haim Kaplan

Local Differential Privacy for Evolving Data

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #153 Poster – In Tue Poster Session B Matthew Joseph \cdot Aaron Roth \cdot Jonathan Ullman \cdot Bo Waggoner

Adversarial Attacks on Stochastic Bandits

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #154 Poster – In Tue Poster Session B Kwang-Sung Jun \cdot Lihong Li \cdot Yuzhe Ma \cdot Jerry Zhu

Distributed Learning without Distress: Privacy-Preserving Empirical Risk Minimization

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #155 Poster – In Tue Poster Session B Bargav Jayaraman \cdot Lingxiao Wang \cdot David Evans \cdot Quanquan Gu

A Spectral View of Adversarially Robust Features

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #156 Poster – In Tue Poster Session B Shivam Garg \cdot Vatsal Sharan \cdot Brian Zhang \cdot Gregory Valiant

Efficient Formal Safety Analysis of Neural Networks

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #157 Poster – In Tue Poster Session B Shiqi Wang · Kexin Pei · Justin Whitehouse · Junfeng Yang · Suman Jana

Contamination Attacks and Mitigation in Multi-Party Machine Learning

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #158 Poster – In Tue Poster Session B Jamie Hayes \cdot Olga Ohrimenko

Explaining Deep Learning Models -- A Bayesian Non-parametric Approach

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #159 Poster – In Tue Poster Session B Wenbo Guo · Sui Huang · Yunzhe Tao · Xinyu Xing · Lin Lin

Data-Driven Clustering via Parameterized Lloyd's Families

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #160 Poster – In Tue Poster Session B Maria-Florina Balcan \cdot Travis Dick \cdot Colin White

Manifold Structured Prediction

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #161 Poster – In Tue Poster Session B Alessandro Rudi · Carlo Ciliberto · GianMaria Marconi · Lorenzo Rosasco

Loss Surfaces, Mode Connectivity, and Fast Ensembling of DNNs

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #162 Poster – In Tue Poster Session B Timur Garipov · Pavel Izmailov · Dmitrii Podoprikhin · Dmitry Vetrov · Andrew Wilson

Masking: A New Perspective of Noisy Supervision

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #163 Poster – In Tue Poster Session B Bo Han · Jiangchao Yao · Gang Niu · Mingyuan Zhou · Ivor Tsang · Ya Zhang · Masashi Sugiyama

Supervising Unsupervised Learning

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #164 Poster – In Tue Poster Session B Vikas Garg \cdot Adam Kalai

One-Shot Unsupervised Cross Domain Translation

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #165 Poster – In Tue Poster Session B Sagie Benaim \cdot Lior Wolf

Neural Architecture Search with Bayesian Optimisation and Optimal Transport

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #166 Poster – In Tue Poster Session B Kirthevasan Kandasamy · Willie Neiswanger · Jeff Schneider · Barnabas Poczos · Eric Xing

Adapted Deep Embeddings: A Synthesis of Methods for k-Shot Inductive Transfer Learning

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #167 Poster – In Tue Poster Session B Tyler Scott \cdot Karl Ridgeway \cdot Michael Mozer

Completing State Representations using Spectral Learning

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #168 Poster – In Tue Poster Session B Nan Jiang \cdot Alex Kulesza \cdot Satinder Singh

Data-Efficient Hierarchical Reinforcement Learning

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #169 Poster – In Tue Poster Session B Ofir Nachum \cdot Shixiang (Shane) Gu \cdot Honglak Lee \cdot Sergey Levine

The Cluster Description Problem - Complexity Results, Formulations and Approximations

Tue Dec 4th 05:00 – 07:00 PM @ Room 210 & 230 AB #170 Poster – In Tue Poster Session B Ian Davidson \cdot Antoine Gourru \cdot S Ravi