AAAI-21 Accepted Papers — Main Technical Track

Main Track
*(The list of accepted appers for the **Special Track on AI for Social Impact** appears at the end of this document, beginning on page 121.)*

4: Multi-Domain Multi-Task Rehearsal for Lifelong Learning
Fan Lyu, Shuai Wang, Wei Feng, Zihan Ye, Fuyuan Hu, Song Wang

26: EfficientDeRain: Learning Pixel-Wise Dilation Filtering for High-Efficiency Single-Image Deraining
Qing Guo, Jingyang Sun, Felix Juefei-Xu, Lei Ma, Xiaofei Xie, Wei Feng, Yang Liu, Jianjun Zhao

36: Understanding Deformable Alignment in Video Super-Resolution
Kelvin C.K. Chan, Xintao Wang, Ke Yu, Chao Dong, Chen Change Loy

38: A SAT-Based Resolution of Lam's Problem
Curtis Bright, Kevin Cheung, Brett Stevens, Ilias Kotsireas, Vijay Ganesh

39: Nearest Neighbor Classifier Embedded Network for Active Learning
Fang Wan, Tianning Yuan, Mengying Fu, Xiangyang Ji, Qingming Huang, Qixiang Ye

43: Shape-Pose Ambiguity in Learning 3D Reconstruction from Images
Yunjie Wu, Zhengxing Sun, Youcheng Song, Yunhan Sun, YiJie Zhong, Jinlong Shi

44: Why Adversarial Interaction Creates Non-Homogeneous Patterns: A Pseudo-Reaction-Diffusion Model for Turing Instability
Litu Rout

63: Building Interpretable Interaction Trees for Deep NLP Models
Die Zhang, HuiLin Zhou, Xiaoyi Bao, Da Huo, Ruizhao Chen, Hao Zhang, Xu Cheng, Mengyue Wu, Quanshi Zhang

67: Revisiting Dominance Pruning in Decoupled Search
Daniel Gnad

68: Meta-Transfer Learning for Low-Resource Abstractive Summarization
Yi-Syuan Chen, Hong-Han Shuai

69: Structured Co-Reference Graph Attention for Video-Grounded Dialogue
Junyeong Kim, Sunjae Yoon, DaHyun Kim, Chang D. Yoo

73: Dual-Octave Convolution for Accelerated Parallel MR Image Reconstruction
Chunmei Feng, Zhanyuan Yang, Geng Chen, Yong Xu, Ling Shao

80: Interpretable Embedding Procedure Knowledge Transfer via Stacked Principal Component Analysis and Graph Neural Network
Seunghyun Lee, Byung Cheol Song

83: NuQClq: An Effective Local Search Algorithm for Maximum Quasi-Clique Problem
Jiejiang Chen, Shaowei Cai, Shiwei Pan, Yiyuan Wang, Qingwei Lin, Mengyu Zhao, Minghao Yin

86: MiniSeg: An Extremely Minimum Network for Efficient COVID-19 Segmentation
Yu Qiu, Yun Liu, Shijie Li, Jing Xu

103: AttaNet: Attention-Augmented Network for Fast and Accurate Scene Parsing
Qi Song, Kangfu Mei, Rui Huang

106: Learning to Copy Coherent Knowledge for Response Generation
Jiaqi Bai, Ze Yang, Xinnian Liang, Wei Wang, Zhoujun Li

109: PANTHER: Pathway Augmented Nonnegative Tensor Factorization for HighER-Order Feature Learning
Yuan Luo, Chengsheng Mao

110: Knowledge Refactoring for Inductive Program Synthesis
Sebastijan Dumancic, Tias Guns, Andrew Cropper

111: LCollision: Fast Generation of Collision-Free Human Poses Using Learned Non-Penetration Constraints
Qingyang Tan, Zherong Pan, Dinesh Manocha

117: Incremental Embedding Learning via Zero-Shot Translation
Kun Wei, Cheng Deng, Xu Yang, Maosen Li

120: Weakly-Supervised Temporal Action Localization by Uncertainty Modeling
Pilhyeon Lee, Jinglu Wang, Yan Lu, Hyeran Byun

122: CAKES: Channel-Wise Automatic Kernel Shrinking for Efficient 3D Networks
Qihang Yu, Yingwei Li, Jieru Mei, Yuyin Zhou, Alan Yuille

132: Landmark Generation in HTN Planning
Daniel Höller, Pascal T Bercher

142: On Online Optimization: Dynamic Regret Analysis of Strongly Convex and Smooth Problems
Ting-Jui Chang, Shahin Shahrampour

146: Ethical Dilemmas in Strategic Games
Pavel Naumov, Rui-Jie Yew

228: Rain Streak Removal via Dual Graph Convolutional Network
Xueyang Fu, Qi Qi, Yurui Zhu, Xinghao Ding, Zheng-Jun Zha

233: RevMan: Revenue-Aware Multi-Task Online Insurance Recommendation
Yu Li, Yi Zhang, Lu Gan, GengWei Hong, Zimu Zhou, Qiang Li

239: Tailoring Embedding Function to Heterogeneous Few-Shot Tasks by Global and Local Feature Adaptors
Su Lu, Han-Jia Ye, De-Chuan Zhan

240: Topic-Oriented Spoken Dialogue Summarization for Customer Service with Saliency-Aware Topic Modeling
Yicheng Zou, Lujun Zhao, Yangyang Kang, Jun Lin, Minlong Peng, Zhuoren Jiang, Changlong Sun, Qi Zhang, Xuanjing Huang, Xiaozhong Liu

241: Boundary-Aware Geometric Encoding for Semantic Segmentation of Point Clouds
Jingyu Gong, Jiachen Xu, Xin Tan, Jie Zhou, Yanyun Qu, Yuan Xie, Lizhuang Ma

257: Task Aligned Generative Meta-Learning for Zero-Shot Learning
Zhe Liu, Yun Li, Lina Yao, Xianzhi Wang, Guodong Long

258: When Hashing Met Matching: Efficient Spatio-Temporal Search for Ridesharing
Chinmoy Dutta

260: SHOT-VAE: Semi-Supervised Deep Generative Models with Label-Aware ELBO Approximations
Haozhe Feng, Minghao Chen, Minfeng Zhu, Kezhi Kong, Tianye Zhang, Wei Chen

262: Many-to-One Distribution Learning and K-Nearest Neighbor Smoothing for Thoracic Disease Identification
Yi Zhou, Lei Huang, Tianfei Zhou, Ling Shao

267: Asynchronous Teacher Guided Bit-wise Hard Mining for Online Hashing
Sheng Jin, Qin Zhou, Hongxun Yao, Yao Liu, Xian-Sheng Hua

278: Secure Bilevel Asynchronous Vertical Federated Learning with Backward Updating
Qingsong Zhang, Bin Gu, Cheng Deng, Heng Huang

279: Detecting Beneficial Feature Interactions for Recommender Systems
Yixin Su, Rui Zhang, Sarah Erfani, Zhenghua Xu

283: Weakly Supervised Deep Hyperspherical Quantization for Image Retrieval
Jinpeng Wang, Bin Chen, Qiang Zhang, Zaiqiao Meng, Shangsong Liang, Shutao Xia

286: Agreement-Discrepancy-Selection: Active Learning with Progressive Distribution Alignment

Mengying Fu, Tianning Yuan, Fang Wan, Songcen Xu, Qixiang Ye

296: Optimizing Information Theory Based Bitwise Bottlenecks for Efficient Mixed-Precision Activation Quantization
Xichuan Zhou, Kui Liu, Cong Shi, Haijun Liu, Ji Liu

299: A Global Occlusion-Aware Approach to Self-Supervised Monocular Visual Odometry
Yao Lu, Xiaoli Xu, Mingyu Ding, Zhiwu Lu, Tao Xiang

315: Traffic Flow Prediction with Vehicle Trajectories
Mingqian Li, Panrong Tong, Mo Li, Zhongming Jin, Jianqiang Huang, Xian-Sheng Hua

328: Camera-Aware Proxies for Unsupervised Person Re-Identification
Menglin Wang, Baisheng Lai, Jianqiang Huang, Xiaojin Gong, Xian-Sheng Hua

329: Large Norms of CNN Layers Do Not Hurt Adversarial Robustness
Youwei Liang, Dong Huang

351: CIA-SSD: Confident IoU-Aware Single-Stage Object Detector From Point Cloud
Wu Zheng, Weiliang Tang, Sijin Chen, Li Jiang, Chi-Wing Fu

353: How Does Data Augmentation Affect Privacy in Machine Learning?
Da Yu, Huishuai Zhang, Wei Chen, Jian Yin, Tie-Yan Liu

354: Achieving Envy-Freeness and Equitability with Monetary Transfers
Haris Aziz

364: R3Det: Refined Single-Stage Detector with Feature Refinement for Rotating Object
Xue Yang, Junchi Yan, Ziming Feng, Tao He

370: EECBS: A Bounded-Suboptimal Search for Multi-Agent Path Finding
Jiaoyang Li, Wheeler Ruml, Sven Koenig

374: Fine-Grained Generalization Analysis of Vector-Valued Learning
Liang Wu, Antoine Ledent, Yunwen Lei, Marius Kloft

376: Hand-Model-Aware Sign Language Recognition
Hezhen Hu, Wengang Zhou, Houqiang Li

380: Endomorphisms of Classical Planning Tasks
Rostislav Horčík, Daniel Fišer

384: TransTailor: Pruning the Pre-Trained Model for Improved Transfer Learning
Bingyan Liu, Yifeng Cai, Yao Guo, Xiangqun Chen

393: Dual Quaternion Knowledge Graph Embeddings
Zongsheng Cao, Qianqian Xu, Zhiyong Yang, Xiaochun Cao, Qingming Huang

397: Defending against Contagious Attacks on a Network with Resource Reallocation
Rufan Bai, Haoxing Lin, Xinyu Yang, Xiaowei Wu, Minming Li, Weijia Jia

400: Robust Model Compression Using Deep Hypotheses
Omri Armstrong, Ran Gilad-Bachrach

404: Semi-Supervised Metric Learning: A Deep Resurrection
Ujjal Kr Dutta, Mehrtash Harandi, C Chandra Shekhar

405: Non-Autoregressive Coarse-to-Fine Video Captioning
Bang Yang, Yuexian Zou, Fenglin Liu, Can Zhang

409: Explicitly Modeled Attention Maps for Image Classification
Andong Tan, Duc Tam Nguyen, Dax Maximillian, Matthias Niessner, Thomas Brox

412: Representative Proxy Voting
Elliot Anshelevich, Zack Fitzsimmons, Rohit Vaish, Lirong Xia

415: Audio-Oriented Multimodal Machine Comprehension via Dynamic Inter- and Intra-Modality Attention
Zhiqi Huang, Fenglin Liu, Xian Wu, Shen Ge, Helin Wang, Wei Fan, Yuexian Zou

416: Robust Reinforcement Learning: A Case Study in Linear Quadratic Regulation
Bo Pang, Zhong-Ping Jiang

418: High-Resolution Deep Image Matting
Haichao Yu, Ning Xu, Zilong Huang, Yuqian Zhou, Humphrey Shi

419: Any-Precision Deep Neural Networks
Haichao Yu, Haoxiang Li, Humphrey Shi, Thomas Huang, Gang Hua

420: Regret Bounds for Batched Bandits
Hossein Esfandiari, Amin Karbasi, Abbas Mehrabian, Vahab Mirrokni

421: Sample Selection for Universal Domain Adaptation
Omri Lifshitz, Lior Wolf

430: Bayesian Distributional Policy Gradients
Luchen Li, Aldo A Faisal

437: SMIL: Multimodal Learning with Severely Missing Modality
Mengmeng Ma, Jian Ren, Long Zhao, Sergey Tulyakov, Cathy Wu, Xi Peng

444: FedRec++: Lossless Federated Recommendation with Explicit Feedback
Feng Liang, Weike Pan, Zhong Ming

447: UAG: Uncertainty-Aware Attention Graph Neural Network for Defending Adversarial Attacks
Boyuan Feng, Yuke Wang, Yufei Ding

452: Self-Supervised Bilingual Syntactic Alignment for Neural Machine Translation
Tianfu Zhang, Heyan Huang, Chong Feng, Longbing Cao

465: Addressing Domain Gap via Content Invariant Representation for Semantic Segmentation
Li Gao, Lefei Zhang, Qian Zhang

471: Stereopagnosia: Fooling Stereo Networks with Adversarial Perturbations
Alex Wong, Mukund Mundhra, Stefano Soatto

477: Deep Metric Learning with Self-Supervised Ranking
Zheren Fu, Yan Li, Zhendong Mao, Quan Wang, Yongdong Zhang

479: Learning from Noisy Labels with Complementary Loss Functions
Deng-Bao Wang, Yong Wen, Lujia Pan, Min-Ling Zhang

483: Context-Guided Adaptive Network for Efficient Human Pose Estimation
Lei Zhao, Jun Wen, Pengfei Wang, Nenggan Zheng

487: Context-Aware Graph Convolution Network for Target Re-Identification
Deyi Ji, Haoran Wang, Hanzhe Hu, Weihao Gan, Wei Wu, Junjie Yan

495: Adaptive Knowledge Driven Regularization for Deep Neural Networks
Zhaojing Luo, Shaofeng Cai, Can Cui, Beng Chin Ooi, Yang Yang

498: On the Approximation of Nash Equilibria in Sparse Win-Lose Multi-Player Games
Zhengyang Liu, Jiawei Li, Xiaotie Deng

501: Unsupervised Summarization for Chat Logs with Topic-Oriented Ranking and Context-Aware
Auto-Encoders
Yicheng Zou, Jun Lin, Lujun Zhao, Yangyang Kang, Zhuoren Jiang, Changlong Sun, Qi Zhang,
Xuanjing Huang, Xiaozhong Liu

514: Delving into Variance Transmission and Normalization: Shift of Average Gradient Makes the
Network Collapse
Yuxiang Liu, Jidong Ge, Chuanyi Li, Jie Gui

520: Empirical Regularization for Synthetic Sentence Pairs in Unsupervised Neural Machine
Translation

Xi Ai, Bin Fang

540: Learning Intact Features by Erasing-Inpainting for Few-Shot Classification
Junjie Li, Zilei Wang, Xiaoming Hu

542: Time to Transfer: Predicting and Evaluating Machine-Human Chatting Handoff
Jiawei Liu, Zhe Gao, Yangyang Kang, Zhuoren Jiang, Guoxiu He, Changlong Sun, Xiaozhong Liu, Wei Lu

563: Lifelong Multi-Agent Path Finding in Large-Scale Warehouses
Jiaoyang Li, Andrew Tinka, Scott Kiesel, Joseph W Durham, T. K. Satish Kumar, Sven Koenig

564: Learning to Purify Noisy Labels via Meta Soft Label Corrector
Yichen Wu, Jun Shu, Qi Xie, Qian Zhao, Deyu Meng

566: Rethinking Boundaries: End-To-End Recognition of Discontinuous Mentions with Pointer Networks
Hao Fei, Fei Li, Bobo Li, Yijiang Liu, Yafeng Ren, Donghong Ji

567: Graph and Temporal Convolutional Network for Spatio-Temporal 3D Multi-Person Pose Estimation in Monocular Videos
Yu Cheng, Bo Wang, Bo Yang, Robby T. Tan

572: PSSM-Distil: Protein Secondary Structure Prediction (PSSP) on Low-Quality PSSM by Knowledge Distillation with Contrastive Learning
Qin Wang, Boyuan Wang, Zhenlei Xu, Jiaxiang Wu, Peilin Zhao, Zhen Li, Sheng Wang, Junzhou Huang, Shuguang Cui

578: Learning to Attack Real-World Models for Person Re-Identification via Virtual-Guided Meta-Learning
Fengxiang Yang, Zhun Zhong, Hong Liu, Zheng Wang, Zhiming Luo, Shaozi Li, Nicu Sebe, Shin'ichi Satoh

582: Efficient License Plate Recognition via Holistic Position Attention
Yesheng Zhang, Zilei Wang, Jiafan Zhuang

588: Stability and Generalization for Decentralized Stochastic Gradient Descent
Tao Sun, Dongsheng Li, Bao Wang

589: Domain General Face Forgery Detection by Learning to Weight
Ke Sun, Hong Liu, Qixiang Ye, Yue Gao, Jianzhuang Liu, Ling Shao, Rongrong Ji

592: Fast and Compact Bilinear Pooling by Shifted Random Maclaurin
Tan Yu, Xiaoyun Li, Ping Li

605: Sparse Single Sweep LiDAR Point Cloud Segmentation via Learning Contextual Shape Priors from Scene Completion
Xu Yan, Jiantao Gao, Jie Li, Ruimao Zhang, Zhen Li, Rui Huang, Shuguang Cui

606: Social-DPF: Socially Acceptable Distribution Prediction of Futures
Xiaodan Shi, Xiaowei Shao, Guangming Wu, Haoran Zhang, Zhiling Guo, Renhe Jiang, Ryosuke Shibasaki

611: Ordered Counterfactual Explanation by Mixed-Integer Linear Optimization
Kentaro Kanamori, Takuya Takagi, Ken Kobayashi, Yuichi Ike, Kento Uemura, Hiroki Arimura

615: Graph Heterogeneous Multi-Relational Recommendation
Chong Chen, Weizhi Ma, Min Zhang, Zhaowei Wang, Xiuqiang He, Chenyang Wang, Yiqun Liu, Shaoping Ma

621: Semi-Supervised Medical Image Segmentation through Dual-Task Consistency
Xiangde Luo, Jieneng Chen, Tao Song, Guotai Wang

623: Interpreting Neural Networks as Quantitative Argumentation Frameworks
Nico Potyka

631: Inferring Camouflage Objects by Texture-Aware Interactive Guidance Network
Jinchao Zhu, Xiaoyu Zhang, Shuo Zhang, Junnan Liu

634: Parallel Constraint Acquisition
Nadjib Lazaar

636: Group-Wise Semantic Mining for Weakly Supervised Semantic Segmentation
Xueyi Li, Tianfei Zhou, Jianwu Li, Yi Zhou, Zhaoxiang Zhang

639: PTN: A Poisson Transfer Network for Semi-Supervised Few-Shot Learning
Huaxi Huang, Junjie Zhang, Jian Zhang, Qiang Wu, Chang Xu

645: Beating Attackers at Their Own Games: Adversarial Example Detection Using Adversarial Gradient Directions
Yuhang Wu, Sunpreet S Arora, Yanhong Wu, Hao Yang

647: Contrastive Triple Extraction with Generative Transformer
Hongbin Ye, Ningyu Zhang, Shumin Deng, Mosha Chen, Chuanqi Tan, Fei Huang, Huajun Chen

655: Revealing Hidden Preconditions and Effects of Compound HTN Planning Tasks – A Complexity Analysis
Conny Olz, Susanne Biundo, Pascal T Bercher

676: Scalable First-Order Methods for Robust MDPs

Julien Grand Clement, Christian Kroer

678: Justicia: A Stochastic SAT Approach to Formally Verify Fairness
Bishwamittra Ghosh, Debabrota Basu, Kuldeep S Meel

698: Multi-Level Distance Regularization for Deep Metric Learning
Yonghyun Kim, Wonpyo Park

704: Semantics Altering Modifications for Evaluating Comprehension in Machine Reading
Viktor Schlegel, Goran Nenadic, Riza Batista-Navarro

706: Exploring Transfer Learning for End-to-End Spoken Language Understanding
Subendhu Rongali, Beiye Liu, Liwei Cai, Konstantine Arkoudas, Chengwei Su, Wael Hamza

707: A General Setting for Gradual Semantics Dealing with Similarity
Leila Amgoud, Victor David

710: Maintenance of Social Commitments in Multiagent Systems
Pankaj Telang, Munindar Singh, Neil Yorke-Smith

724: Teacher Guided Neural Architecture Search for Face Recognition
Xiaobo Wang

726: Initiative Defense against Facial Manipulation
Qidong Huang, Wenbo Zhou, Jie Zhang, Weiming Zhang, Nenghai Yu

727: Very Important Person Localization in Unconstrained Conditions: A New Benchmark
Xiao Wang, Zheng Wang, Toshihiko Yamasaki, Wenjun Zeng

738: Sample-Efficient L0-L2 Constrained Structure Learning of Sparse Ising Models
Antoine Dedieu, Miguel Lázaro-Gredilla, Dileep George

740: Step-Ahead Error Feedback for Distributed Training with Compressed Gradient
An Xu, Zhouyuan Huo, Heng Huang

761: RpBERT: A Text-Image Relation Propagation-Based BERT Model for Multimodal NER
Lin Sun, Jiquan Wang, Kai Zhang, Yindu Su, Fangsheng Weng

764: Solution Concepts in Hierarchical Games under Bounded Rationality with Applications to
Autonomous Driving
Atrisha Sarkar, Krzysztof Czarnecki

765: Evolution Strategies for Approximate Solution of Bayesian Games
Zun Li, Michael Wellman

766: LREN: Low-Rank Embedded Network for Sample-Free Hyperspectral Anomaly Detection
Kai Jiang, Weiying Xie, Jie Lei, Tao Jiang, Yunsong Li

780: Contrastive Transformation for Self-Supervised Correspondence Learning
Ning Wang, Wengang Zhou, Houqiang Li

797: Model Uncertainty Guides Visual Object Tracking
Lijun Zhou, Antoine Ledent, Qintao Hu, Ting Liu, Jianlin Zhang, Marius Kloft

799: RSGNet: Relation Based Skeleton Graph Network for Crowded Scenes Pose Estimation
Yan Dai, Xuanhan Wang, Jingkuan Song, Lianli Gao, Heng Tao Shen

807: Adversarial Pose Regression Network for Pose-Invariant Face Recognitions
Pengyu Li, Biao Wang, Lei Zhang

809: MIEHDR CNN: Main Image Enhancement Based Ghost-Free High Dynamic Range Imaging Using Dual-Lens Systems
Xuan Dong, Xiaoyan Hu, Weixin Li, Xiaojie Wang, Yunhong Wang

813: Time-Independent Planning for Multiple Moving Agents
Keisuke Okumura, Yasumasa Tamura, Xavier Defago

821: MeInGame: Create a Game Character Face from a Single Portrait
Jiangke Lin, Yi Yuan, Zhengxia Zou

829: The Price of Connectivity in Fair Division
Xiaohui Bei, Ayumi Igarashi, Xinhang Lu, Warut Suksompong

830: Hierarchical Multiple Kernel Clustering
Jiyuan Liu, Xinwang Liu, Siwei Wang, Sihang Zhou, Yuexiang Yang

831: Generalizable Representation Learning for Mixture Domain Face Anti-Spoofing
Zhihong Chen, Taiping Yao, Kekai Sheng, Shouhong Ding, Ying Tai, Jilin Li, Feiyue Huang, Xinyu Jin

833: Interpretable Clustering on Dynamic Graphs with Recurrent Graph Neural Networks
Yuhang Yao, Carlee Joe-Wong

838: Beyond Class-Conditional Assumption: A Primary Attempt to Combat Instance-Dependent Label Noise
Pengfei Chen, JunJie Ye, Guangyong Chen, Jingwei Zhao, Pheng-Ann Heng

844: FaceController: Controllable Attribute Editing for Face in the Wild
Zhiliang Xu, Xiyu Yu, Zhibin Hong, Zhen Zhu, Junyu Han, Jingtuo Liu, Errui Ding, Xiang Bai

855: Diffusion Network Inference from Partial Observations

Ting Gan, Keqi Han, Hao Huang, Shi Ying, Yunjun Gao, Zongpeng Li

861: SPIN: Structure-Preserving Inner Offset Network for Scene Text Recognition
Chengwei Zhang, Yunlu Xu, Zhanzhan Cheng, Shiliang Pu, Yi Niu, Fei Wu, Futai Zou

863: High-Dimensional Bayesian Optimization via Tree-Structured Additive Models
Eric LW Han, Ishank Arora, Jonathan Scarlett

866: Split then Refine: Stacked Attention-Guided ResUNets for Blind Single Image Visible Watermark Removal
Xiaodong Cun, Chi-Man Pun

867: SARG: A Novel Semi Autoregressive Generator for Multi-Turn Incomplete Utterance Restoration
Mengzuo Huang, Feng Li, Wuhe Zou, Weidong Zhang

869: DPFPS: Dynamic and Progressive Filter Pruning for Compressing Convolutional Neural Networks from Scratch
Xiaofeng Ruan, Yufan Liu, Bing Li, Chunfeng Yuan, Weiming Hu

870: Boosting Image-Based Mutual Gaze Detection Using Pseudo 3D Gaze
Bardia Doosti, Ching-Hui Chen, Raviteja Vemulapalli, Xuhui Jia, Yukun Zhu, Bradley Green

871: Partially Non-Autoregressive Image Captioning
Zhengcong Fei

885: MANGO: A Mask Attention Guided One-Stage Scene Text Spotter
Liang Qiao, Ying Chen, Zhanzhan Cheng, Yunlu Xu, Yi Niu, Shiliang Pu, Fei Wu

896: Augmenting Policy Learning with Routines Discovered from a Single Demonstration
Zelin Zhao, Chuang Gan, Jiajun Wu, Xiaoxiao Guo, Joshua Tenenbaum

897: Protecting the Protected Group: Circumventing Harmful Fairness
Omer Ben-Porat, Moshe Tennenholtz, Fedor Sandomirskiy

898: RGB-D Salient Object Detection via 3D Convolutional Neural Networks
Qian Chen, Ze Liu, Yi Zhang, Keren Fu, Qijun Zhao, Hongwei Du

907: Probing Product Description Generation via Posterior Distillation
Haolan Zhan, Hainan Zhang, Hongshen Chen, Lei Shen, Zhuoye Ding, Yongjun Bao, Weipeng Yan, Yanyan Lan

911: Evidence Inference Networks for Interpretable Claim Verification
Lianwei Wu, Yuan Rao, Ling Sun, Wangbo He

920: Enhanced Audio Tagging via Multi- to Single-Modal Teacher-Student Mutual Learning
Yifang Yin, Harsh Shrivastava, Ying Zhang, Zhenguang Liu, Rajiv Ratn Shah, Roger Zimmermann

932: In-Game Residential Home Planning via Visual Context-Aware Global Relation Learning
Lijuan Liu, Yin Yang, Yi Yuan, Tianjia Shao, He E Wang, Kun Zhou

938: Invariant Teacher and Equivariant Student for Unsupervised 3D Human Pose Estimation
Chenxin Xu, Siheng Chen, Maosen Li, Ya Zhang

942: One-Shot Face Reenactment Using Appearance Adaptive Normalization
Guangming Yao, Yi Yuan, Tianjia Shao, Shuang Li, Shanqi Liu, Yong Liu, Mengmeng Wang, Kun Zhou

943: Dividing a Graphical Cake
Xiaohui Bei, Warut Suksompong

946: Differentially Private Stochastic Coordinate Descent
Georgios Damaskinos, Celestine Mendler-Dünner, Rachid Guerraoui, Nikolaos Papandreou, Thomas Parnell

949: Few-Shot Lifelong Learning
Pratik Mazumder, Pravendra Singh, Piyush Rai

955: Positions, Channels, and Layers: Fully Generalized Non-Local Network for Singer Identification
I-Yuan Kuo, Wen-Li Wei, Jen-Chun Lin

959: Auto-Encoding Transformations in Reparameterized Lie Groups for Unsupervised Learning
Feng Lin, Haohang Xu, Houqiang Li, Hongkai Xiong, Guo-Jun Qi

994: Conditional Inference under Disjunctive Rationality
Richard Booth, Ivan J Varzinczak

995: Object-Centric Image Generation from Layouts
Tristan Sylvain, Pengchuan Zhang, Yoshua Bengio, R Devon Hjelm, Shikhar Sharma

996: Matching on Sets: Conquer Occluded Person Re-Identification Without Alignment
Mengxi Jia, Xinhua Cheng, Yunpeng Zhai, Shijian Lu, Siwei Ma, Yonghong Tian, Jian Zhang

997: Verifiable Machine Ethics in Changing Contexts
Louise A Dennis, Martin Bentzen, Felix Lindner, Michael Fisher

1020: Exploiting Relationship for Complex-Scene Image Generation
Tianyu Hua, Hongdong Zheng, Yalong Bai, Wei Zhang, Xiao-Ping Zhang, Tao Mei

1026: Pragmatic Code Autocomplete
Gabriel Poesia Reis e Silva, Noah Goodman

1029: Confidence-Aware Non-Repetitive Multimodal Transformers for TextCaps
Zhaokai Wang, Renda Bao, Qi Wu, Si Liu

1041: Partial Is Better Than All: Revisiting Fine-Tuning Strategy for Few-Shot Learning
Zhiqiang Shen, Zechun Liu, Jie Qin, Marios Savvides, Kwang-Ting Cheng

1049: PDO-eS2CNNs: Partial Differential Operator Based Equivariant Spherical CNNs
Zhengyang Shen, Tiancheng Shen, Zhouchen Lin, Jinwen Ma

1054: OPQ: Compressing Deep Neural Networks with One-Shot Pruning-Quantization
Peng Hu, Xi Peng, Hongyuan Zhu, Mohamed M. Sabry Aly, Jie Lin

1057: Doubly Residual Neural Decoder: Towards Low-Complexity High-Performance Channel Decoding
Siyu Liao, Chunhua Deng, Miao Yin, Bo Yuan

1059: Knowledge-Driven Data Construction for Zero-Shot Evaluation in Commonsense Question Answering
Kaixin Ma, Filip Ilievski, Jonathan M Francis, Yonatan Bisk, Eric Nyberg, Alessandro Oltramari

1060: Characterizing the Loss Landscape in Non-Negative Matrix Factorization
Johan Björck, Anmol Kabra, Kilian Weinberger, Carla P Gomes

1063: TabNet: Attentive Interpretable Tabular Learning
Sercan O. Arik, Tomas Pfister

1066: New Length Dependent Algorithm for Maximum Satisfiability Problem
Vasily Alferov, Ivan Bliznets

1068: Copy That! Editing Sequences by Copying Spans
Sheena L Panthaplackel, Miltiadis Allamanis, Marc Brockschmidt

1069: Dynamic Gaussian Mixture Based Deep Generative Model for Robust Forecasting on Sparse Multivariate Time Series
Yinjun Wu, Jingchao Ni, Wei Cheng, Bo Zong, Dongjin Song, Zhengzhang Chen, Yanchi Liu, Xuchao Zhang, Haifeng Chen, Susan B Davidson

1074: Subtype-Aware Unsupervised Domain Adaptation for Medical Diagnosis
Xiaofeng Liu, Xiongchang Liu, Wenxuan Ji, Bo Hu, Fangxu Xing, Jun Lu, Jane You, C.-C. Jay Kuo, Georges El Fakhri, Jonghye Woo

1078: Welfare Guarantees in Schelling Segregation
Martin Bullinger, Warut Suksompong, Alexandros Voudouris

1079: Deep Verifier Networks: Verification of Deep Discriminative Models with Deep Generative Models
Tong Che, Xiaofeng Liu, Site Li, Yubin Ge, Ruixiang Zhang, Caiming Xiong, Yoshua Bengio

1083: Learning with Retrospection
Xiang Deng, Zhongfei Zhang

1085: RT3D: Achieving Real-Time Execution of 3D Convolutional Neural Networks on Mobile Devices
Wei Niu, Mengshu Sun, Zhengang Li, Jou-An Chen, Jiexiong Guan, Xipeng Shen, Yanzhi Wang, Sijia Liu, Xue Lin, Bin Ren

1094: BANANAS: Bayesian Optimization with Neural Architectures for Neural Architecture Search
Colin White, Willie Neiswanger, Yash Savani

1095: SnapMix: Semantically Proportional Mixing for Augmenting Fine-Grained Data
Shaoli Huang, Xinchao Wang, Dacheng Tao

1103: Clustering Ensemble Meets Low-Rank Tensor Approximation
Yuheng Jia, Hui Liu, Junhui Hou, Qingfu Zhang

1109: Learning Hybrid Relationships for Person Re-Identification
Shuang Liu, Wenmin Huang, Zhong Zhang

1121: Consistent Right-Invariant Fixed-Lag Smoother with Application to Visual Inertial SLAM
Jianzhu Huai, Yukai Lin, Yuan Zhuang, Min Shi

1122: Robust Spatio-Temporal Purchase Prediction via Deep Meta Learning
Huiling Qin, Songyu Ke, Xiaodu Yang, Haoran Xu, Xianyuan Zhan, Yu Zheng

1123: Deep Frequency Principle Towards Understanding Why Deeper Learning Is Faster
Zhiqin John Xu, Hanxu Zhou

1136: Scalable Affinity Propagation for Massive Datasets
Hiroaki Shiokawa

1137: Self-Supervised Attention-Aware Reinforcement Learning
Haiping Wu, Khimya Khetarpal, Doina Precup

1139: A Fast Exact Algorithm for the Resource Constrained Shortest Path Problem
Saman Ahmadi, Guido Tack, Daniel Harabor, Philip Kilby

1140: ePointDA: An End-to-End Simulation-to-Real Domain Adaptation Framework for LiDAR Point Cloud Segmentation
Sicheng Zhao, Yezhen Wang, Bo Li, Bichen Wu, Yang Gao, Pengfei Xu, Trevor Darrell, Kurt Keutzer

1143: CompFeat: Comprehensive Feature Aggregation for Video Instance Segmentation
Yang Fu, Linjie Yang, Ding Liu, Thomas Huang, Humphrey Shi

1162: Flow-Based Generative Models for Learning Manifold to Manifold Mappings
Xingjian Zhen, Rudrasis Chakraborty, Liu Yang, Vikas Singh

1163: BoW Pooling: A Plug-and-Play Unit for Feature Aggregation of Point Clouds
Xiang Zhang, Xiao Sun, Zhouhui Lian

1169: Hierarchical Reinforcement Learning for Integrated Recommendation
Ruobing Xie, Shaoliang Zhang, Rui Wang, Feng Xia, Leyu Lin

1172: Proactive Privacy-Preserving Learning for Retrieval
Peng-Fei Zhang, Zi Huang, Xin-Shun Xu

1173: Weakly Supervised Semantic Segmentation for Large-Scale Point Cloud
Yachao Zhang, Zonghao Li, Yuan Xie, Yanyun Qu, Li Cui-hua, Tao Mei

1174: Self-Supervised Prototype Representation Learning for Event-Based Corporate Profiling
Zixuan Yuan, Hao Liu, Renjun Hu, Denghui Zhang, Hui Xiong

1178: DeepDT: Learning Geometry from Delaunay Triangulation for Surface Reconstruction
Yiming Luo, Zhenxing Mi, Wenbing Tao

1191: Disentangled Information Bottleneck
Ziqi Pan, Li Niu, Jianfu Zhang, Liqing Zhang

1201: GIF Thumbnails: Attract More Clicks to Your Videos
Yi Xu, Fan Bai, Yingxuan Shi, Qiuyu Chen, Longwen Gao, Kai Tian, Shuigeng Zhou, Huyang Sun

1205: An Improved Upper Bound for SAT
Huairui Chu, Mingyu Xiao, Zhe Zhang

1212: Towards More Practical and Efficient Automatic Dominance Breaking
Jimmy H.M. Lee, Allen Z. W. Zhong

1214: Who You Would Like to Share With? A Study of Share Recommendation in Social E-Commerce
Houye Ji, Junxiong Zhu, Xiao Wang, Chuan Shi, Bai Wang, Xiaoye Tan, Yanghua Li, Shaojian He

1236: Graph-Evolving Meta-Learning for Low-Resource Medical Dialogue Generation
Shuai Lin, Pan Zhou, Xiaodan Liang, Jianheng Tang, Ruihui Zhao, Ziliang Chen, Liang Lin

1239: SD-Pose: Semantic Decomposition for Cross-Domain 6D Object Pose Estimation

Zhigang Li, Yinlin Hu, Mathieu Salzmann, Xiangyang Ji

1250: TDAF: Top-Down Attention Framework for Vision Tasks
Bo Pang, Yizhuo Li, Jiefeng Li, Muchen Li, Hanwen Cao, Cewu Lu

1252: A Spatial Regulated Patch-Wise Approach for Cervical Dysplasia Diagnosis
Ying Zhang, Yifang Yin, Zhenguang Liu, Roger Zimmermann

1260: Reinforced History Backtracking for Conversational Question Answering
Minghui Qiu, Xinjing Huang, Cen Chen, Feng Ji, Chen Qu, Wei Wei, Jun Huang, Yin Zhang

1263: Compressing Deep Convolutional Neural Networks by Stacking Low-Dimensional Binary
Convolution Filters
Weichao Lan, Liang Lan

1264: Model-Agnostic Fits for Understanding Information Seeking Patterns in Humans
Soumya Chatterjee, Pradeep Shenoy

1274: Generalising without Forgetting for Lifelong Person Re-Identification
Guile Wu, Shaogang Gong

1275: Proxy Synthesis: Learning with Synthetic Classes for Deep Metric Learning
Geonmo Gu, Byungsoo Ko, Han-Gyu Kim

1282: Bi-Classifier Determinacy Maximization for Unsupervised Domain Adaptation
Shuang Li, Fangrui Lv, Binhui Xie, Chi Harold Liu, Jian Liang, Chen Qin

1289: Question-Driven Span Labeling Model for Aspect–Opinion Pair Extraction
Lei Gao, Yulong Wang, Tongcun Liu, Jingyu Wang, Lei Zhang, Jianxin Liao

1291: A Primal-Dual Online Algorithm for Online Matching Problem in Dynamic Environments
Yu-Hang Zhou, Peng Hu, Chen Liang, Huan Xu, Guangda Huzhang, Yinfu Feng, Qing Da, XInshang
Wang, An-Xiang Zeng

1292: Semi-Supervised Knowledge Amalgamation for Sequence Classification
Jidapa Thadajarassiri, Thomas Hartvigsen, Xiangnan Kong, Elke Rundensteiner

1302: Scalable Verification of Quantized Neural Networks
Thomas Henzinger, Mathias Lechner, Djordje Zikelic

1310: Deep Metric Learning with Graph Consistency
Binghui Chen, Pengyu Li, Zhaoyi Yan, Biao Wang, Lei Zhang

1314: Living without Beth and Craig: Definitions and Interpolants in Description Logics with
Nominals and Role Inclusions

Alessandro Artale, Jean Jung, Andrea Mazzullo, Ana Ozaki, Frank Wolter

1315: HR-Depth : High Resolution Self-Supervised Monocular Depth Estimation
Xiaoyang Lyu, Liang Liu, Mengmeng Wang, Xin Kong, Lina Liu, Yong Liu, Xinxin Chen, Yi Yuan

1322: Pyramidal Feature Shrinking for Salient Object Detection
Mingcan Ma, Changqun Xia, Jia Li

1324: Improving Image Captioning by Leveraging Intra- and Inter-layer Global Representation in Transformer Network
Jiayi Ji, Yunpeng Luo, Xiaoshuai Sun, Fuhai Chen, Gen Luo, Yongjian Wu, Yue Gao, Rongrong Ji

1329: Enhancing Balanced Graph Edge Partition with Effective Local Search
Zhenyu Guo, Mingyu Xiao, Yi Zhou, Dongxiang Zhang, Kian-Lee Tan

1335: A Bayesian Approach for Subset Selection in Contextual Bandits
Jialian Li, Chao Du, Jun Zhu

1343: Object Relation Attention for Image Paragraph Captioning
Li-Chuan Yang, Chih-Yuan Yang, Jane Yung-jen Hsu

1346: Fair and Truthful Mechanisms for Dichotomous Valuations
Moshe Babaioff, Tomer Ezra, Uriel Feige

1351: Enhancing Parameter-Free Frank Wolfe with an Extra Subproblem
Bingcong Li, Lingda Wang, Georgios B. Giannakis, Zhizhen Zhao

1352: Contrastive Clustering
Yunfan Li, Peng Hu, Zitao Liu, Dezhong Peng, Joey Tianyi Zhou, Xi Peng

1353: Dec-SGTS: Decentralized Sub-Goal Tree Search for Multi-Agent Coordination
Minglong Li, Zhongxuan Cai, Wenjing Yang, Lixia Wu, Yinghui Xu, Ji Wang

1361: GoT: a Growing Tree Model for Clustering Ensemble
Feijiang Li, Yuhua Qian, Jieting Wang

1364: Searching for Alignment in Face Recognition
Xiaqing Xu, Qiang Meng, Yunxiao Qin, Jianzhu Guo, Chenxu Zhao, Feng Zhou, Zhen Lei

1365: Attentive Neural Point Processes for Event Forecasting
Yulong Gu

1368: GRASP: Generic Framework for Health Status Representation Learning Based on Incorporating Knowledge from Similar Patients
Chaohe Zhang, Xin Gao, Liantao Ma, Yasha Wang, Jiangtao Wang, Wen Tang

1370: Efficient Object-Level Visual Context Modeling for Multimodal Machine Translation: Masking Irrelevant Objects Helps Grounding
Dexin Wang, Deyi Xiong

1373: Class-Incremental Instance Segmentation via Multi-Teacher Networks
Yanan Gu, Cheng Deng, Kun Wei

1376: Dynamically Grown Generative Adversarial Networks
Lanlan Liu, Yuting Zhang, Jia Deng, Stefano Soatto

1379: Few-Shot Font Generation with Localized Style Representations and Factorization
Song Park, Sanghyuk Chun, Junbum Cha, Bado Lee, Hyunjung Shim

1396: ACT: An Attentive Convolutional Transformer for Efficient Text Classification
Pengfei Li, Peixiang Zhong, Kezhi Mao, Dongzhe Wang, Xuefeng Yang, Yunfeng Liu, Jianxiong (Terry) Yin, Simon See

1398: Generalized Zero-Shot Learning via Disentangled Representation
Xiangyu Li, Zhe Xu, Kun Wei, Cheng Deng

1404: Revisiting Co-Occurring Directions: Sharper Analysis and Efficient Algorithm for Sparse Matrices
Luo Luo, Cheng Chen, Guangzeng Xie, Haishan Ye

1408: Narrative Plan Generation with Self-Supervised Learning
Mihai Polceanu, Julie Porteous, Alan Lindsay, Marc Cavazza

1409: Action Candidate Based Clipped Double Q-Learning for Discrete and Continuous Action Tasks
Haobo Jiang, Jin Xie, Jian Yang

1412: Self-Supervised Sketch-to-Image Synthesis
Bingchen A Liu, Yizhe Zhu, Kunpeng Song, Ahmed Elgammal

1413: The LOB Recreation Model: Predicting the Limit Order Book from TAQ History Using an Ordinary Differential Equation Recurrent Neural Network
Zijian Shi, Yu Chen, John Cartlidge

1426: TIME: Text and Image Mutual-Translation Adversarial Networks
Bingchen A Liu, Kunpeng Song, Yizhe Zhu, Gerard de Melo, Ahmed Elgammal

1431: DIBS: Diversity Inducing Information Bottleneck in Model Ensembles
Samarth Sinha, Homanga Bharadhwaj, Anirudh Goyal, Hugo Larochelle, Animesh Garg, Florian Shkurti

1432: Simple or Complex? Learning to Predict Readability of Bengali Texts
Susmoy Chakraborty, Mir Tafseer Nayeem, Wasi U Ahmad

1434: Type-Augmented Relation Prediction in Knowledge Graphs
Zijun Cui, Pavan Kapanipathi, Kartik Talamadupula, Tian Gao, Qiang Ji

1436: Forming Better Stable Solutions in Group Formation Games Inspired by Internet Exchange Points (IXPs)
Elliot Anshelevich, Wennan Zhu

1442: Learning of Structurally Unambiguous Probabilistic Grammars
Dolav Nitay, Dana Fisman, Michal Ziv-Ukelson

1445: Automatic Generation of Flexible Plans via Diverse Temporal Planning
Yotam Amitai, Ayal Taitler, Erez Karpas

1446: Physarum Powered Differentiable Linear Programming Layers and Applications
Zihang Meng, Sathya Ravi, Vikas Singh

1471: Neural Sentence Ordering Based on Constraint Graphs
Yutao Zhu, Kun Zhou, Jian-Yun Nie, Shengchao Liu, Zhicheng Dou

1473: Federated Multi-Armed Bandits
Chengshuai Shi, Cong Shen

1479: Encoder-Decoder Based Unified Semantic Role Labeling with Label-Aware Syntax
Hao Fei, Fei Li, Bobo Li, Donghong Ji

1489: Uncertainty Quantification in CNN through the Bootstrap of Convex Neural Networks
Hongfei Du, Emre Barut, Fang Jin

1493: Temporal Relational Modeling with Self-Supervision for Action Segmentation
Dong Wang, Di Hu, Xingjian Li, Dejing Dou

1503: Differentially Private and Communication Efficient Collaborative Learning
Jiahao Ding, Guannan Liang, Jinbo Bi, Miao Pan

1504: Debiasing Evaluations That Are Biased by Evaluations
Jingyan Wang, Ivan Stelmakh, Yuting Wei, Nihar Shah

1506: Contrastive Adversarial Learning for Person Independent Facial Emotion Recognition
Daeha Kim, Byung Cheol Song

1507: Self-Supervised Pre-Training and Contrastive Representation Learning for Multiple-Choice Video QA

Seonhoon Kim, Seohyeong Jeong, Eunbyul Kim, Inho Kang, Nojun Kwak

1523: MVFNet: Multi-View Fusion Network for Efficient Video Recognition
Wenhao Wu, Dongliang He, Tianwei Lin, Fu Li, Chuang Gan, Errui Ding

1528: Robust Knowledge Transfer via Hybrid Forward on the Teacher-Student Model
Liangchen Song, Jialian Wu, Ming Yang, Qian Zhang, Yuan Li, Junsong Yuan

1532: RSPNet: Relative Speed Perception for Unsupervised Video Representation Learning
Peihao Chen, Deng Huang, Dongliang He, Xiang Long, Runhao Zeng, Shilei Wen, Mingkui Tan, Chuang Gan

1534: Anticipating Future Relations via Graph Growing for Action Prediction
Xinxiao Wu, Jianwei Zhao, Ruiqi Wang

1536: TaLNet: Voice Reconstruction from Tongue and Lip Articulation with Transfer Learning from Text-to-Speech Synthesis
Jing-Xuan Zhang, Korin Richmond, Zhen-Hua Ling, Lirong Dai

1538: Unified Tensor Framework for Incomplete Multi-View Clustering and Missing-View Inferring
Jie Wen, Zheng Zhang, Zhao Zhang, Lei Zhu, Lunke Fei, Bob Zhang, Yong Xu

1546: Spatial-Temporal Causal Inference for Partial Image-to-Video Adaptation
Jin Chen, Xinxiao Wu, Yao Hu, Jiebo Luo

1559: Similarity Reasoning and Filtration for Image-Text Matching
Haiwen Diao, Ying Zhang, Huchuan Lu, Lin Ma

1571: BSN++: Complementary Boundary Regressor with Scale-Balanced Relation Modeling for Temporal Action Proposal Generation
Haisheng Su, Weihao Gan, Wei Wu, Yu Qiao, Junjie Yan

1588: Dynamic Hybrid Relation Exploration Network for Cross-Domain Context-Dependent Semantic Parsing
Binyuan Hui, Ruiying Geng, Qiyu Ren, Binhua Li, Yongbin Li, Jian Sun, Fei Huang, Luo Si, Pengfei Zhu, Xiaodan Zhu

1596: Deep Unsupervised Image Hashing by Maximizing Bit Entropy
Yunqiang Li, Jan van Gemert

1611: Pre-Training Context and Time Aware Location Embeddings from Spatial-Temporal Trajectories for User Next Location Prediction
Yan Lin, Huaiyu Wan, Shengnan Guo, Youfang Lin

1612: GradingNet: Towards Providing Reliable Supervisions for Weakly Supervised Object Detection by Grading the Box Candidates
Qifei Jia, Shikui Wei, Tao Ruan, Zhao Yufeng, Yao Zhao

1613: Learning Comprehensive Motion Representation for Action Recognition
Mingyu Wu, Boyuan Jiang, Donghao Luo, Junchi Yan, Yabiao Wang, Ying Tai, Chengjie Wang, Jilin Li, Feiyue Huang, Xiaokang Yang

1619: Dual-Level Collaborative Transformer for Image Captioning
Yunpeng Luo, Jiayi Ji, Xiaoshuai Sun, Liujuan Cao, Yongjian Wu, Feiyue Huang, Chia-Wen Lin, Rongrong Ji

1620: Structure-Consistent Weakly Supervised Salient Object Detection with Local Saliency Coherence
Siyue Yu, Bingfeng Zhang, Jimin Xiao, Eng Gee Lim

1624: Robustness of Accuracy Metric and its Inspirations in Learning with Noisy Labels
Pengfei Chen, JunJie Ye, Guangyong Chen, Jingwei Zhao, Pheng-Ann Heng

1625: Mind the Gap: Cake Cutting with Separation
Edith Elkind, Erel Segal-Halevi, Warut Suksompong

1627: Quantum-Inspired Neural Network for Conversational Emotion Recognition
Qiuchi Li, Dimitris Gkoumas, Alessandro Sordoni, Jian-Yun Nie, Massimo Melucci

1630: Memory-Augmented Image Captioning
Zhengcong Fei

1633: AutoLR: Layer-Wise Pruning and Auto-Tuning of Learning Rates in Fine-Tuning of Deep Networks
Youngmin Ro, Jin Young Choi

1637: How Does the Combined Risk Affect the Performance of Unsupervised Domain Adaptation Approaches?
Li Zhong, Zhen Fang, Feng Liu, Bo Yuan, Guangquan Zhang, Jie Lu

1640: Retrospective Reader for Machine Reading Comprehension
Zhuosheng Zhang, Junjie Yang, Hai Zhao

1645: Oral-3D: Reconstructing the 3D Structure of Oral Cavity from Panoramic X-ray
Weinan Song, Yuan Liang, Jiawei Yang, Kun Wang, Lei He

1654: Code Completion by Modeling Flattened Abstract Syntax Trees as Graphs
Yanlin Wang, Hui Li

1657: Ranking Sets of Defeasible Elements in Preferential Approaches to Structured Argumentation: Postulates, Relations, and Characterizations
Jan Maly, Johannes Peter Wallner

1663: Translate the Facial Regions You Like Using Self-Adaptive Region Translation
Wenshuang Liu, Wenting Chen, Zhanjia Yang, Linlin Shen

1666: LRC-BERT: Latent-Representation Contrastive Knowledge Distillation for Natural Language Understanding
Hao Fu, Shaojun Zhou, Qihong Yang, Junjie Tang, Liu GuiQuan, Kaikui Liu, Xiaolong Li

1672: A Unified Framework for Planning with Learned Neural Network Transition Models
Buser Say

1677: Disentangled Multi-Relational Graph Convolutional Network for Pedestrian Trajectory Prediction
Inhwan Bae, Hae-Gon Jeon

1692: Inferring Emotion from Large-Scale Internet Voice Data: A Semi-Supervised Curriculum Augmentation Based Deep Learning Approach
Suping Zhou, Jia Jia, Zhiyong Wu, Zhihan Yang, Yanfeng Wang, Wei Chen, Fanbo Meng, Shuo Huang, Jialie Shen, Xiaochuan Wang

1693: CardioGAN: Attentive Generative Adversarial Network with Dual Discriminators for Synthesis of ECG from PPG
Pritam Sarkar, Ali Etemad

1706: Towards Domain Invariant Single Image Dehazing
Pranjay Shyam, Kuk-Jin Yoon, Kyung-Soo Kim

1726: Instrumental Variable-Based Identification for Causal Dffects Using Covariate Information
Yuta Kawakami

1745: Choosing the Initial State for Online Replanning
Maximilian Fickert, Ivan Gavran, Ivan Fedotov, Joerg Hoffmann, Rupak Majumdar, Wheeler Ruml

1757: Second Order Techniques for Learning Time-Series with Structural Breaks
Takayuki Osogami

1759: What to Select: Pursuing Consistent Motion Segmentation from Multiple Geometric Models
Yangbangyan Jiang, Qianqian Xu, Ke Ma, Zhiyong Yang, Xiaochun Cao, Qingming Huang

1770: Neural Sentence Simplification with Semantic Dependency Information
Zhe Lin, Xiaojun Wan

1807: Natural Language Inference in Context - Investigating Contextual Reasoning over Long Texts
Hanmeng Liu, Leyang Cui, Jian Liu, Yue Zhang

1808: HiABP: Hierarchical Initialized ABP for Unsupervised Representation Learning
Jiankai Sun, Rui Liu, Bolei Zhou

1813: HINT: Hierarchical Invertible Neural Transport for Density Estimation and Bayesian Inference
Jakob Kruse, Gianluca Detommaso, Robert Scheichl, Ullrich Köthe

1839: Targeted Negative Campaigning: Complexity and Approximations
Avishai Zagoury, Orgad Keller, Noam Hazon, Avinatan Hassidim

1845: FracBits: Mixed Precision Quantization via Fractional Bit-Widths
Linjie Yang, Qing Jin

1855: Few-Shot One-Class Classification via Meta-Learning
Ahmed Frikha, Denis Krompass, Hans-Georg Koepken, Volker Tresp

1864: Joint Demosaicking and Denoising in the Wild: The Case of Training under Ground Truth Uncertainty
Jierun Chen, Song Wen, Gary Chan

1869: Learning to Resolve Conflicts for Multi-Agent Path Finding with Conflict-Based Search
Taoan Huang, Sven Koenig, Bistra Dilkina

1872: Correlative Channel-Aware Fusion for Multi-View Time Series Classification
Yue Bai, Lichen Wang, Zhiqiang Tao, Sheng Li, Yun Fu

1883: GAN Ensemble for Anomaly Detection
Xiaohui Chen, Xu Han, Liping Liu

1889: Self-Supervised Hypergraph Convolutional Networks for Session-Based Recommendation
Xin Xia, Hongzhi Yin, Junliang Yu, Qinyong Wang, Lizhen Cui, Xiangliang Zhang

1891: Post-training Quantization with Multiple Points: Mixed Precision without Mixed Precision
Xingchao Liu, Mao Ye, Denny Zhou, Qiang Liu

1894: Longitudinal Deep Kernel Gaussian Process Regression
Junjie Liang, Yanting Wu, Dongkuan Xu, Vasant G Honavar

1895: Generalized Adversarially Learned Inference
Yatin Dandi, Homanga Bharadhwaj, Abhishek Kumar, Piyush Rai

1900: Spectral Distribution Aware Image Generation
Steffen Jung, Margret Keuper

1909: DAST: Unsupervised Domain Adaptation in Semantic Segmentation Based on Discriminator Attention and Self-Training
Fei Yu, Mo Zhang, Hexin Dong, Sheng Hu, Bin Dong, Li Zhang

1912: On Scalar Embedding of Relative Positions in Attention Models
Junshuang Wu, Richong Zhang, Yongyi Mao, Junfan Chen

1924: I3DOL: Incremental 3D Object Learning without Catastrophic Forgetting
Jiahua Dong, Yang Cong, Gan Sun, Bingtao Ma, Lichen Wang

1931: Embedding Heterogeneous Networks into Hyperbolic Space without Meta-Path
Lili Wang, Chongyang Gao, Chenghan Huang, Ruibo Liu, Weicheng Ma, Soroush Vosoughi

1939: Anomaly Attribution with Likelihood Compensation
Tsuyoshi Ide, Amit Dhurandhar, Jiri Navratil, Moninder Singh, Naoki Abe

1942: Gradient Descent Averaging and Primal-Dual Averaging for Strongly Convex Optimization
Wei Tao, Wei Li, Zhisong Pan, Qing Tao

1951: Cascade Network with Guided Loss and Hybrid Attention for Finding Good Correspondences
Zhi Chen, Fan Yang, Wenbing Tao

1952: Neural Sequence-to-Grid Module for Learning Symbolic Rules
Segwang Kim, Hyoungwook Nam, Joonyoung Kim, Kyomin Jung

1964: Local Relation Learning for Face Forgery Detection
Shen Chen, Taiping Yao, Yang Chen, Shouhong Ding, Jilin Li, Rongrong Ji

1965: Contrastive and Generative Graph Convolutional Networks for Graph-Based Semi-Supervised Learning
Sheng Wan, Shirui Pan, Jian Yang, Chen Gong

1970: Spatio-Temporal Difference Descriptor for Skeleton-Based Action Recognition
Chongyang Ding, 凯 刘, Jari Korhonen, Evgeny Belyaev

1975: Dual Sparse Attention Network for Session-Based Recommendation
Jiahao Yuan, Mingyou Sun, Zihan Song, Xiaoling Wang, Wayne Xin Zhao

1991: EQG-RACE: Examination-Type Question Generation
Xin Jia, Wenjie Zhou, Xu Sun, Yunfang Wu

1995: Learning Modality-Specific Representations with Self-Supervised Multi-Task Learning for Multimodal Sentiment Analysis
Wenmeng Yu, Hua Xu, Ziqi Yuan, Jiele Wu

2002: Coupled Layer-Wise Graph Convolution for Transportation Demand Prediction
Junchen Ye, Leilei Sun, Bowen Du, Yanjie Fu, Hui Xiong

2005: Distributed Ranking with Communications: Approximation Analysis and Applications
Hong Chen, Yingjie Wang, Yulong Wang, Feng Zheng

2015: Tied Block Convolution: Leaner and Better CNNs with Shared Thinner Filters
Xudong Wang, Stella X Yu

2017: Learnable Dynamic Temporal Pooling for Time Series Classification
Dongha Lee, Seonghyeon Lee, Hwanjo Yu

2030: Learning to Check Contract Inconsistencies
Shuo Zhang, Junzhou Zhao, Pinghui Wang, Nuo Xu, Yang Yang, Yiting Liu, Yi Huang, Junlan Feng

2034: Sparsity Aware Normalization for GANs
Idan Kligvasser, Tomer Michaeli

2035: Improving Generative Moment Matching Networks with Distribution Partition
Yong Ren, Yucen Luo, Jun Zhu

2037: Overcoming Catastrophic Forgetting in Graph Neural Networks
Huihui Liu, Yiding Yang, Xinchao Wang

2044: Synergetic Learning of Heterogeneous Temporal Sequences for Multi-Horizon Probabilistic Forecasting
Longyuan Li, Jihai Zhang, Junchi Yan, Yaohui Jin, Yunhao Zhang, Yanjie Duan, Guangjian Tian

2046: Efficient Classification with Adaptive KNN
Puning Zhao, Lifeng Lai

2050: ExGAN: Adversarial Generation of Extreme Samples
Siddharth Bhatia, Arjit Jain, Bryan Hooi

2059: Coalition Formation in Multi-Defender Security Games
Dolev Mutzari, Jiarui Gan, Sarit Kraus

2076: Terrace-Based Food Counting and Segmentation
Huu-Thanh Nguyen, Chong-Wah Ngo

2079: SIMPLE: Single-Network with Mimicking and Point Learning for Bottom-Up Human Pose Estimation
Jiabin Zhang, Zheng Zhu, Jiwen Lu, Junjie Huang, Guan Huang, Jie Zhou

2088: Combining Reinforcement Learning with Lin-Kernighan-Helsgaun Algorithm for the Traveling Salesman Problem
Jiongzhi Zheng, Kun He, Jianrong Zhou, Yan Jin, Chumin Li

2105: FCFR-Net: Feature Fusion Based Coarse-to-Fine Residual Learning for Depth Completion
Lina Liu, Xibin Song, Xiaoyang Lyu, Junwei Diao, Mengmeng Wang, Yong Liu, Liangjun Zhang

2107: Robust Lightweight Facial Expression Recognition Network with Label Distribution Training
Zengqun Zhao, Qingshan Liu, Feng Zhou

2116: U-BERT: Pre-Training User Representations for Improved Recommendation
Zhaopeng Qiu, Xian Wu, Jingyue Gao, Wei Fan

2123: Efficient Deep Image Denoising via Class Specific Convolution
Lu XU, Jiawei Zhang, Xuanye Cheng, Feng Zhang, Xing Wei, Jimmy Ren

2127: Estimation of Spectral Risk Measures
Ajay Kumar Pandey, Prashanth L.A., Sanjay P. P. Bhat

2135: Stochastic Graphical Bandits with Adversarial Corruptions
Shiyin Lu, Guanghui Wang, Lijun Zhang

2136: Learning to Reweight Imaginary Transitions for Model-Based Reinforcement Learning
Wenzhen Huang, Qiyue Yin, Junge Zhang, KAIQI HUANG

2141: Strong Explanations in Abstract Argumentation
Markus Ulbricht, Johannes Peter Wallner

2148: C2F-FWN: Coarse-to-Fine Flow Warping Network for Spatial-Temporal Consistent Motion Transfer
Dongxu Wei, Xiaowei Xu, Haibin Shen, Kejie Huang

2155: Dynamic Modeling Cross- and Self-Lattice Attention Network for Chinese NER
Shan Zhao, Minghao Hu, Zhiping Cai, Haiwen Chen, Fang Liu

2158: Structure-Aware Person Image Generation with Pose Decomposition and Semantic Correlation
Jilin Tang, Yi Yuan, Tianjia Shao, Yong Liu, Mengmeng Wang, Kun Zhou

2160: A Model of Winners Allocation
Yongjie Yang

2162: Discovering Fully Oriented Causal Networks
Osman A Mian, Alexander Marx, Jilles Vreeken

2164: PC-HMR: Pose Calibration for 3D Human Mesh Recovery from 2D Images/Videos
Tianyu Luan, Yali Wang, Junhao Zhang, Zhe Wang, Zhipeng Zhou, Yu Qiao

2179: RESA: Recurrent Feature-Shift Aggregator for Lane Detection
Tu Zheng, Hao Fang, Yi Zhang, Wenjian Tang, Zheng Yang, Haifeng Liu, Deng Cai

2183: Teaching Active Human Learners
Zizhe Wang, Hailong Sun

2184: An Adaptive Hybrid Framework for Cross-Domain Aspect-Based Sentiment Analysis
Yan Zhou, Fuqing Zhu, pu song, Jizhong Han, Tao Guo, Songlin Hu

2186: Warm Starting CMA-ES for Hyperparameter Optimization
Masahiro Nomura, Shuhei Watanabe, Youhei Akimoto, Yoshihiko Ozaki, Masaki Onishi

2189: Learning to Cascade: Confidence Calibration for Improving the Accuracy and Computational
Cost of Cascade Inference Systems
Shohei Enomoro, Takeharu Eda

2191: From Label Smoothing to Label Relaxation
Julian Lienen, Eyke Hüllermeier

2192: Kernel-Convoluted Deep Neural Networks with Data Augmentation
Minjin Kim, Young-geun Kim, Dongha Kim, Yongdai Kim, Myunghee Cho Paik

2200: Regret Bounds for Online Kernel Selection in Continuous Kernel Space
Xiao Zhang, Shizhong Liao, Jun Xu, Ji-Rong Wen

2206: Relative and Absolute Location Embedding for Few-Shot Node Classification on Graph
Zemin Liu, Yuan Fang, Chenghao Liu, Steven Hoi

2210: Proportionally Representative Participatory Budgeting with Ordinal Preferences
Haris Aziz, Barton Lee

2215: FL-MSRE: A Few-Shot Learning Based Approach to Multimodal Social Relation Extraction
Hai Wan, Manrong Zhang, Jianfeng Du, Ziling Huang, Yufei Yang, Jeff Z. Pan

2224: Merging Statistical Feature via Adaptive Gate for Improved Text Classification
Xianming Li, Zongxi Li, Haoran Xie, Qing Li

2226: Gaussian Process Priors for View-Aware Inference
Yuxin Hou, Ari Heljakka, Arno Solin

2235: BT Expansion: A Sound and Complete Algorithm for Behavior Planning of Intelligent Robots
with Behavior Trees

Zhongxuan Cai, Minglong Li, Wanrong Huang, Wenjing Yang

2239: Better Bounds on the Adaptivity Gap of Influence Maximization under Full-Adoption Feedback
Gianlorenzo D'Angelo, Debashmita Poddar, Cosimo Vinci

2240: Training Binary Neural Network without Batch Normalization for Image Super-Resolution
Xinrui Jiang, Nannan Wang, Jingwei Xin, Keyu Li, Xi Yang, Xinbo Gao

2247: Reasoning in Dialog: Improving Response Generation by Context Reading Comprehension
Xiuying Chen, Zhi Cui, Jiayi Zhang, Chen Wei, Jianwei Cui, Bin Wang, Dongyan Zhao, Rui Yan

2249: Learning a Few-Shot Embedding Model with Contrastive Learning
Chen Liu, Li Zhang, Chengming Xu, Siqian Yang, Yanwei Fu, Jilin Li, Chengjie Wang

2258: KGDet: Keypoint-Guided Fashion Detection
Shenhan Qian, Dongze Lian, Binqiang Zhao, Tong Liu, Bohui Zhu, Hai Li, Shenghua Gao

2261: Arbitrary Video Style Transfer via Multi-Channel Correlation
Yingying Deng, Fan Tang, Weiming Dong, Haibin Huang, Chongyang Ma, Changsheng Xu

2262: UBAR: Towards Fully End-to-End Task-Oriented Dialog System with GPT-2: Yunyi Yang, Yunhao Li, Xiaojun Quan

2266: Learning a Gradient-Free Riemannian Optimizer on Tangent Spaces
Xiaomeng Fan, Zhi Gao, Yuwei WU, Yunde Jia, Mehrtash Harandi

2270: DialogXL: All-in-One XLNet for Multi-Party Conversation Emotion Recognition
Weizhou Shen, Junqing Chen, Xiaojun Quan, Zhixian Xie

2277: Maximin Fairness with Mixed Divisible and Indivisible Goods
Xiaohui Bei, Shengxin Liu, Xinhang Lu, Hongao Wang

2280: On Lipschitz Regularization of Convolutional Layers Using Toeplitz Matrix Theory
Alexandre Araujo, Benjamin Negrevergne, Yann Chevaleyre, Jamal Atif

2281: The Style-Content Duality of Attractiveness: Learning to Write Eye-Catching Headlines via Disentanglement
Mingzhe Li, Xiuying Chen, Min Yang, Shen Gao, Dongyan Zhao, Rui Yan

2287: Efficient Optimal Selection for Composited Advertising Creatives with Tree Structure
Jin Chen, Tiezheng Ge, Gangwei Jiang, Zhiqiang Zhang, Defu Lian, Kai Zheng

2294: Exploration-Exploitation in Multi-Agent Learning: Catastrophe Theory Meets Game Theory
Stefanos Leonardos, Georgios Piliouras

2303: On the Complexity of Finding Justifications for Collective Decisions
Arthur Boixel, Ronald de Haan

2308: Fast PCA in 1-D Wasserstein Spaces via B-splines Representation and Metric Projection
Matteo Pegoraro, Mario Beraha

2323: Task-Independent Knowledge Makes for Transferable Representations for Generalized Zero-Shot Learning
Chaoqun Wang, Xuejin Chen, Shaobo Min, Xiaoyan Sun, Houqiang Li

2325: An Efficient Algorithm for Deep Stochastic Contextual Bandits
Tan Zhu, Guannan Liang, Chunjiang Zhu, Haining Li, Jinbo Bi

2327: Computing the Proportional Veto Core
Egor Ianovski, Aleksei Y Kondratev

2329: Investigate Indistinguishable Points in Semantic Segmentation of 3D Point Cloud
Mingye Xu, Zhipeng Zhou, Junhao Zhang, Yu Qiao

2334: TripleTree: A Versatile Interpretable Representation of Black Box Agents and their Environments
Tom Bewley, Jonathan Lawry

2345: Spherical Image Generation from a Single Image by Considering Scene Symmetry
Takayuki Hara, Yusuke Mukuta, Tatsuya Harada

2352: Relative Variational Intrinsic Control
Kate A Baumli, David Warde-Farley, Steven Hansen, Vlad Mnih

2355: Hierarchical Graph Capsule Network
Jinyu Yang, Peilin Zhao, Yu Rong, Chaochao Yan, Chunyuan Li, Hehuan Ma, Junzhou Huang

2358: Improving Commonsense Causal Reasoning by Adversarial Training and Data Augmentation
Ignacio Iacobacci, Ieva Staliūnaitė, Philip John Gorinski

2360: Graph Neural Network to Dilute Outliers for Refactoring Monolith Application
Utkarsh Desai, Sambaran Bandyopadhyay, Srikanth Tamilselvam

2365: Tackling Instance-Dependent Label Noise via a Universal Probabilistic Model
Qizhou Wang, Bo Han, Chen Gong, Tongliang Liu, Gang Niu, Jian Yang

2371: Multi-Document Transformer for Personality Detection
Feifan Yang, Xiaojun Quan, Yunyi Yang, Jianxing Yu

2372: Learning with Group Noise
Qizhou Wang, Jiangchao Yao, Chen Gong, Tongliang Liu, Mingming Gong, Hongxia Yang, Bo Han

2377: Gaining Insight into SARS-CoV-2 Infection and COVID-19 Severity Using Self-Supervised Edge Features and Graph Neural Networks
Arijit Sehanobish, Neal G Ravindra, David van Dijk

2378: Incentivizing Truthfulness through Audits in Strategic Classification
Andrew Estornell, Sanmay Das, Yevgeniy Vorobeychik

2380: DASZL: Dynamic Action Signatures for Zero-Shot Learning
Tae Soo Kim, Jonathan D Jones, Michael Peven, Zihao Xiao, Jin Bai, Yi Zhang, Weichao Qiu, Alan Yuille, Gregory D. Hager

2386: Enhancing Scientific Papers Summarization with Citation Graph
Chenxin An, Ming Zhong, Yiran Chen, Danqing Wang, Xipeng Qiu, Xuanjing Huang

2411: XraySyn: Realistic View Synthesis from a Single Radiograph through CT Prior
Cheng Peng, Haofu Liao, Gina Wong, Jiebo Luo, S. Kevin Zhou, Rama Chellappa

2412: Value-Decomposition Multi-Agent Actor-Critics
Jianyu Su, Stephen Adams, Peter Beling

2414: Multi-Party Campaigning
Martin Koutecky, Nimrod Talmon

2415: Solving Infinite-Domain CSPs Using the Patchwork Property
Konrad K Dabrowski, Peter Jonsson, Sebastian Ordyniak, George Osipov

2417: Disjunctive Temporal Problems under Structural Restrictions
Konrad K Dabrowski, Peter Jonsson, Sebastian Ordyniak, George Osipov

2431: Advice-Guided Reinforcement Learning in a Non-Markovian Environment
Daniel Neider, Jean-Raphaël Gaglione, Ivan Gavran, Ufuk Topcu, Bo Wu, Zhe Xu

2439: Adaptive Teaching of Temporal Logic Formulas to Preference-Based Learners
Zhe Xu, Yuxin Chen, Ufuk Topcu

2441: Content Masked Loss: Human-Like Brush Stroke Planning in a Reinforcement Learning Painting Agent
Peter Schaldenbrand, Jean Oh

2446: CARPe Posterum: A Convolutional Approach for Real-Time Pedestrian Path Prediction
Matias Mendieta, Hamed Tabkhi

2450: Modeling Voters in Multi-Winner Approval Voting
Jaelle Scheuerman, Jason Harman, Nicholas Mattei, Brent Venable

2453: Metrics and Continuity in Reinforcement Learning
Charline Le Lan, Marc G. Bellemare, Pablo Samuel Castro

2460: Meta Learning for Causal Direction
Jean-Francois Ton, Dino Sejdinovic, Kenji Fukumizu

2461: The Undergraduate Games Corpus: A Dataset for Machine Perception of Interactive Media
Barrett R Anderson, Adam M Smith

2475: Implicit Kernel Attention
Kyungwoo Song, Yohan Jung, Dongjun Kim, Il-Chul Moon

2495: Unsupervised Active Learning via Subspace Learning
Changsheng Li, KaiHang Mao, Lingyan Liang, Dongchun Ren, Wei Zhang, Ye Yuan, Guoren Wang

2504: Fairness-Aware News Recommendation with Decomposed Adversarial Learning
Chuhan Wu, Fangzhao Wu, Xiting Wang, Yongfeng Huang, Xing Xie

2538: Exploring the Vulnerability of Deep Neural Networks: A Study of Parameter Corruption
Xu Sun, Zhiyuan Zhang, Xuancheng Ren, Ruixuan Luo, Liangyou Li

2549: Self-Supervised Multi-View Stereo via Effective Co-Segmentation and Data-Augmentation
Hongbin Xu, Zhipeng Zhou, Yu Qiao, Wenxiong Kang, Qiuxia Wu

2554: Multi-Modal Multi-Label Emotion Recognition with Heterogeneous Hierarchical Message
Passing
Dong Zhang, Xincheng Ju, Wei Zhang, Junhui Li, Shoushan Li, Zhu Qiaoming, Zhou Guodong

2556: NASGEM: Neural Architecture Search via Graph Embedding Method
Hsin-Pai Cheng, Tunhou Zhang, Yixing Zhang, Shiyu Li, Feng Liang, Feng Yan, Meng Li, Vikas
Chandra, Hai Li, Yiran Chen

2562: Semantic-Guided Reinforced Region Embedding for Generalized Zero-Shot Learning
Jiannan Ge, Hongtao Xie, Shaobo Min, Yongdong Zhang

2568: SMART Frame Selection for Action Recognition
Shreyank N Gowda, Marcus Rohrbach, Laura Sevilla-Lara

2571: Instance Mining with Class Feature Banks for Weakly Supervised Object Detection
Yufei Yin, Jiajun Deng, Wengang Zhou, Houqiang Li

2581: Ada-Segment: Automated Multi-Loss Adaptation for Panoptic Segmentation

Gengwei Zhang, Yiming Gao, Hang Xu, Hao Zhang, Zhenguo Li, Xiaodan Liang

2583: Accelerated Combinatorial Search for Outlier Detection with Provable Bound on Sub-Optimality
Guihong Wan, Haim Schweitzer

2584: Multi-View Inference for Relation Extraction with Uncertain Knowledge
Bo Li, Wei Ye, Canming Huang, Shikun Zhang

2585: Dual Compositional Learning in Interactive Image Retrieval
Jongseok Kim, Youngjae Yu, Hoeseong Kim, Gunhee Kim

2589: Disentangled Motif-Aware Graph Learning for Phrase Grounding
Zongshen Mu, Siliang Tang, Jie Tan, Qiang Yu, Yueting Zhuang

2593: SA-BNN: State-Aware Binary Neural Network
Chunlei Liu, Peng Chen, Bohan Zhuang, Chunhua Shen, Baochang Zhang, Wenrui Ding

2600: LRSC: Learning Representations for Subspace Clustering
Changsheng Li, Chen Yang, Bo Liu, Ye Yuan, Guoren Wang

2606: Towards Universal Physical Attacks on Single Object Tracking
Li Ding, Yongwei Wang, Kaiwen Yuan, Minyang Jiang, Ping Wang, Hua Huang, Z. Jane Wang

2608: Automated Clustering of High-Dimensional Data with a Feature Weighted Mean-Shift Algorithm
Saptarshi Chakraborty, Debolina Paul, Swagatam Das

2633: Learning Visual Context for Group Activity Recognition
Hangjie Yuan, Dong Ni

2635: What the Role Is vs. What Plays the Role: Semi-Supervised Event Argument Extraction via Dual Question Answering
Yang Zhou, Yubo Chen, Jun Zhao, Yin Wu, Jiexin Xu, JinLong Li

2638: Progressive One-Shot Human Parsing
Haoyu He, Jing Zhang, Bhavani Thuraisingham, Dacheng Tao

2642: Mining EL Bases with Adaptable Role Depth
Ricardo Guimarães, Ana Ozaki, Cosimo Persia, Baris Sertkaya

2649: Parameterized Logical Theories
Fangzhen Lin

2650: Learning Geometry-Disentangled Representation for Complementary Understanding of 3D Object Point Cloud
Mutian Xu, Junhao Zhang, Zhipeng Zhou, Mingye Xu, Xiaojuan Qi, Yu Qiao

2662: Generalize a Small Pre-Trained Model to Arbitrarily Large TSP Instances
Zhang-Hua Fu, Kai-Bin Qiu, Hongyuan Zha

2665: Gradient Regularized Contrastive Learning for Continual Domain Adaptation
Shixiang Tang, Peng Su, Dapeng Chen, Wanli Ouyang

2666: Synthesis of Search Heuristics for Temporal Planning via Reinforcement Learning
Andrea Micheli, Alessandro Valentini

2669: Isolation Graph Kernel
Bi-Cun Xu, Kai Ming Ting, Yuan Jiang

2670: Scaling-Up Robust Gradient Descent Techniques
Matthew J Holland

2671: Improving the Performance-Compatibility Tradeoff with Personalized Objective Functions
Jonathan Martinez, Kobi Gal, Ece Kamar, Levi H. S. Lelis

2681: Storage Fit Learning with Feature Evolvable Streams
Bo-Jian Hou, Yu-Hu Yan, Peng Zhao, Zhi-Hua Zhou

2687: Analysing the Noise Model Error for Realistic Noisy Label Data
Michael A. Hedderich, Dawei Zhu, Dietrich Klakow

2696: Topology Distance: A Topology Based Approach for Evaluating Generative Adversarial Networks
Danijela Horak, Simiao Yu, Gholamreza Salimi-Khorshidi

2698: MFES-HB: Efficient Hyperband with Multi-Fidelity Quality Measurements
Yang Li, Yu Shen, Jiawei Jiang, Jinyang Gao, Ce Zhang, Bin Cui

2700: Detecting Adversarial Examples from Sensitivity Inconsistency of Spatial-Transform Domain
Jinyu Tian, Jiantao Zhou, Yuanman Li, Jia Duan

2711: Towards Faster Deep Collaborative Filtering via Hierarchical Decision Networks
Yu Chen, Sinno Pan

2715: Addressing Action Oscillations through Learning Policy Inertia
Chen Chen, Hongyao Tang, Jianye Hao, Wulong Liu, Zhaopeng Meng

2721: FIMAP: Feature Importance by Minimal Adversarial Perturbation

Matt Chapman-Rounds, Umang Bhatt, Erik Pazos, Marc-Andre Schulz, Konstantinos Georgatzis

2742: Quantification of Resource Production Incompleteness
Yakoub Salhi

2750: Partial-Label and Structure-Constrained Deep Coupled Factorization Network
Yan Zhang, Zhao Zhang, Yang Wang, Zheng Zhang, Li Zhang, Shuicheng Yan, Meng Wang

2751: Time Series Domain Adaptation via Sparse Associative Structure Alignment
Ruichu Cai, Jiawei Chen, Zijian Li, Wei Chen, Keli Zhang, Junjian Ye, Zhuozhang Li, Xiaoyan Yang, Zhenjie Zhang

2753: Multi-Modal Graph Fusion for Named Entity Recognition with Targeted Visual Guidance
Dong Zhang, Suzhong Wei, Shoushan Li, Hanqian Wu, Zhu Qiaoming, Zhou Guodong

2754: Robust Multi-Modality Person Re-Identification
Aihua Zheng, Zihan Chen, Zi Wang, Chenglong Li, Jin Tang

2755: Learning to Truncate Ranked Lists for Information Retrieval
Chen Wu, Ruqing Zhang, Jiafeng Guo, Yixing Fan, Yanyan Lan, Xueqi Cheng

2757: Exploration by Maximizing Renyi Entropy for Reward-Free RL Framework
Chuheng Zhang, Yuanying Cai, Longbo Huang, Jian Li

2758: Extracting Zero-Shot Structured Information from Form-like Documents: Pretraining with Keys and Triggers
Rongyu Cao, Ping Luo

2764: Dynamic Anchor Learning for Arbitrary-Oriented Object Detection
Qi Ming, Zhiqiang Zhou, Lingjuan Miao, Hongwei Zhang, Linhao Li

2782: f-Aware Conflict Prioritization & Improved Heuristics for Conflict-Based Search
Eli Boyarski, Ariel Felner, Pierre Le Bodic, Daniel Harabor, Peter Stuckey, Sven Koenig

2790: From Behavioral Theories to Econometrics: Inferring Preferences of Human Agents from Data on Repeated Interactions
Gali Noti

2796: Deep Graph-Neighbor Coherence Preserving Network for Unsupervised Cross-Modal Hashing
Jun Yu, Hao Zhou, Yibing Zhan, Dacheng Tao

2797: Dynamic Multi-Context Attention Networks for Citation Forecasting of Scientific Publications
Taoran Ji, Nathan Self, Kaiqun Fu, Zhqian Chen, Naren Ramakrishnan, Chang-Tien Lu

2805: Semi-Supervised Node Classification on Graphs: Markov Random Fields vs. Graph Neural Networks
Binghui Wang, Jinyuan Jia, Neil Zhenqiang Gong

2806: Improving Gradient Flow with Unrolled Highway Expectation Maximization
Chonghyuk Song, Inwook Shim, Eunseok Kim

2807: How to Save your Annotation Cost for Panoptic Segmentation?
Xuefeng Du, ChenHan Jiang, Hang Xu, Gengwei Zhang, Zhenguo Li

2808: Learning Representations for Incomplete Time Series Clustering
Qianli Ma, Chuxin Chen, Sen Li, Garrison Cottrell

2832: Regional Attention with Architecture-Rebuilt 3D Network for RGB-D Gesture Recognition
Benjia Zhou, Yunan Li, Jun Wan

2839: Coupon Design in Advertising Systems
Weiran Shen, Pingzhong Tang, Xun Wang, Yadong Xu, Xiwang Yang

2842: Adversarial Directed Graph Embedding
Shijie Zhu, Jianxin Li, Hao Peng, Senzhang Wang, Lifang He

2846: Margin of Victory in Tournaments: Structural and Experimental Results
Markus Brill, Ulrike Schmidt-Kraepelin, Warut Suksompong

2849: Commission Fee Is Not Enough: A Hierarchical Reinforced Framework for Portfolio Management
Rundong Wang, Hongxin Wei, Bo An, Zhouyan Feng, Jun Yao

2858: Hyperbolic Variational Graph Neural Network for Modeling Dynamic Graphs
Li Sun, Zhongbao Zhang, Jiawei Zhang, Feiyang Wang, Hao Peng, Sen Su, Philip S Yu

2862: On Generating Plausible Counterfactual and Semi-Factual Explanations for Deep Learning
Eoin Kenny, Mark Keane

2863: Sketch Generation with Drawing Process Guided by Vector Flow and Grayscale
Zhengyan Tong, Xuanhong Chen, Bingbing Ni, Xiaohang Wang

2874: Recursion in Abstract Argumentation is Hard --- On the Complexity of Semantics Based on Weak Admissibility
Wolfgang Dvorak, Markus Ulbricht, Stefan Woltran

2878: A One-Size-Fits-All Solution to Conservative Bandit Problems
Yihan Du, Siwei Wang, Longbo Huang

2881: The Complexity Landscape of Claim-Augmented Argumentation Frameworks
Wolfgang Dvorak, Alexander Greßler, Anna Rapberger, Stefan Woltran

2885: PGNet: Real-Time Arbitrarily-Shaped Text Spotting with Point Gathering Network
Pengfei Wang, Chengquan Zhang, Fei Qi, Shanshan Liu, Xiaoqiang Zhang, Pengyuan Lyu, Junyu Han, Jingtuo Liu, Errui Ding, Guangming Shi

2890: Hierarchical Information Passing Based Noise-Tolerant Hybrid Learning for Semi-Supervised Human Parsing
Yunan Liu, Shanshan Zhang, Jian Yang, PongChi Yuen

2893: ACSNet: Action-Context Separation Network for Weakly Supervised Temporal Action Localization
Ziyi Liu, Le Wang, Qilin Zhang, Wei Tang, Junsong Yuan, Nanning Zheng, Gang Hua

2900: Deep Multi-Task Learning for Diabetic Retinopathy Grading in Fundus Images
Xiaofei Wang, Mai Xu, Jicong Zhang, Lai Jiang, Liu Li

2912: Policy-Guided Heuristic Search with Guarantees
Laurent Orseau, Levi H. S. Lelis

2915: Deep Probabilistic Imaging: Uncertainty Quantification and Multi-Modal Solution Characterization for Computational Imaging
He Sun, Katherine Bouman

2916: OT-Flow: Fast and Accurate Continuous Normalizing Flows via Optimal Transport
Derek Onken, Samy Wu Fung, Xingjian Li, Lars Ruthotto

2930: Scarce Societal Resource Allocation and the Price of (Local) Justice
Quan M Nguyen, Sanmay Das, Roman Garnett

2937: Modeling Deep Learning Based Privacy Attacks on Physical Mail
Bingyao Huang, Ruyi Lian, Dimitris Samaras, Haibin Ling

2939: Vector Quantized Bayesian Neural Network Inference for Data Streams
Namuk Park, Taekyu Lee, Songkuk Kim

2948: Present-Biased Optimization
Fedor Fomin, Pierre Fraigniaud, Petr Golovach

2950: Fractal Autoencoders for Feature Selection
Xinxing Wu, Qiang Cheng

2963: Learned Bi-Resolution Image Coding Using Generalized Octave Convolutions
Mohammad Akbari, Jie Liang, Jingning Han, Chengjie Tu

2967: Semi-Supervised Sequence Classification through Change Point Detection
Nauman Ahad, Mark Davenport

2969: On Continuous Local BDD-Based Search for Hybrid SAT Solving
Anastasios Kyrillidis, Moshe Vardi, Zhiwei Zhang

2970: Multi-Proxy Wasserstein Classifier for Image Classification
Benlin Liu, Yongming Rao, Jiwen Lu, Jie Zhou, Cho-Jui Hsieh

2971: Lipschitz Lifelong Reinforcement Learning
Erwan Lecarpentier, David Abel, Kavosh Asadi, Yuu Jinnai, Emmanuel Rachelson, Michael L. Littman

2977: Decentralized Multi-Agent Linear Bandits with Safety Constraints
Sanae Amani, Christos Thrampoulidis

2983: Near-Optimal MNL Bandits Under Risk Criteria
Guangyu Xi, Chao Tao, Yuan Zhou

2989: A Continual Learning Framework for Uncertainty-Aware Interactive Image Segmentation
Ervine Zheng, Qi Yu, Rui Li, Pengcheng Shi, Anne Haake

2998: DenserNet: Weakly Supervised Visual Localization Using Multi-Scale Feature Aggregation
Dongfang Liu, Yiming Cui, Liqi Yan, Christos Mousas, Baijian Yang, Yingjie Victor Chen

2999: Weakly Supervised Temporal Action Localization through Learning Explicit Subspaces for Action and Context
Ziyi Liu, Le Wang, Wei Tang, Junsong Yuan, Nanning Zheng, Gang Hua

3004: Aggregating Binary Judgments Ranked by Accuracy
Daniel Halpern, Gregory Kehne, Dominik Peters, Ariel D Procaccia, Nisarg Shah, Piotr Skowron

3010: Intrinsic Certified Robustness of Bagging against Data Poisoning Attacks
Jinyuan Jia, Xiaoyu Cao, Neil Zhenqiang Gong

3011: Exact Reduction of Huge Action Spaces in General Reinforcement Learning
Sultan Javed Majeed, Marcus Hutter

3013: Exploring Auxiliary Reasoning Tasks for Task-Oriented Dialog Systems with Meta Cooperative Learning
Bowen Qin, Min Yang, Bing Lidong, Qingshan Jiang, Chengming Li, Ruifeng Xu

3014: Hierarchical Macro Discourse Parsing Based on Topic Segmentation
Feng Jiang, Yaxin Fan, Xiaomin Chu, Li Peifeng, Zhu Qiaoming, Fang Kong

3018: Depth Privileged Object Detection in Indoor Scenes via Deformation Hallucination
Zhijie Zhang, Yan Liu, Junjie Chen, Li Niu, Liqing Zhang

3021: Uncertain Graph Neural Networks for Facial Action Unit Detection
Tengfei Song, Lisha Chen, Wenming Zheng, Qiang Ji

3022: Multiple Kernel Clustering with Kernel k-Means Coupled Graph Tensor Learning
Zhenwen Ren, Quansen Sun, Dong Wei

3025: Less Than One'-Shot Learning: Learning N Classes from $M < N$ Samples
Ilia Sucholutsky, Matthias Schonlau

3030: Taxonomy Completion via Triplet Matching Network
Jieyu Zhang, Xiangchen Song, Ying Zeng, Jiaze Chen, Jiaming Shen, Yuning Mao, Lei Li

3041: Proxy Graph Matching with Proximal Matching Networks
Haoru Tan, Chuang Wang, Sitong Wu, Tie-Qiang Wang, Xu-Yao Zhang, Cheng-Lin Liu

3047: Self-Paced Two-Dimensional PCA
Jiangxin Li, Zhao Kang, Chong Peng, Wenyu Chen

3049: Group Testing on a Network
Arlei Lopes da Silva, Ambuj Singh

3050: Tri-Level Robust Clustering Ensemble with Multiple Graph Learning
Peng Zhou, Liang Du, Yi-Dong Shen, Xuejun Li

3056: Expected Value of Communication for Planning in Ad Hoc Teamwork
William Macke, Reuth Mirsky, Peter Stone

3064: Bridging Towers of Multi-Task Learning with a Gating Mechanism for Aspect-Based
Sentiment Analysis and Sequential Metaphor Identification
Rui Mao, Xiao Li

3066: Exploiting Sample Uncertainty for Domain Adaptive Person Re-Identification
Kecheng Zheng, Cuiling Lan, Wenjun Zeng, Zhizheng Zhang, Zheng-Jun Zha

3071: Knowledge-Enhanced Hierarchical Graph Transformer Network for Multi-Behavior
Recommendation
Lianghao Xia, Chao Huang, Yong Xu, Peng Dai, Xiyue Zhang, Hongsheng Yang, Jian Pei, Liefeng Bo

3084: Graph Game Embedding
Xiaobin Hong, Tong Zhang, Zhen Cui, Yuge Huang, Pengcheng Shen, Shaoxin Li, Jian Yang

3085: Learning Omni-Frequency Region-Adaptive Representations for Real Image Super-Resolution
Xin Li, Xin Jin, Tao Yu, Simeng Sun, Yingxue Pang, Zhizheng Zhang, Zhibo Chen

3090: On Convergence of Gradient Expected Sarsa (lambda)
Long Yang, Gang Zheng, Yu Zhang, Qian Zheng, Pengfei Li, Gang Pan

3094: Visual Tracking via Hierarchical Deep Reinforcement Learning
Dawei Zhang, Zhonglong Zheng, Riheng Jia, Minglu Li

3110: Recognizing and Verifying Mathematical Equations Using Multiplicative Differential Neural Units
Ankur Mali, Alexander Ororbia, Daniel Kifer, C. Lee Giles

3116: Rethinking Bi-Level Optimization in Neural Architecture Search: A Gibbs Sampling Perspective
Chao Xue, Xiaoxing Wang, Junchi Yan, Yonggang Hu, Xiaokang Yang, Kewei Sun

3129: EvaLDA: Efficient Evasion Attacks Towards Latent Dirichlet Allocation
Qi Zhou, Haipeng Chen, Zheng Yitao, Zhen Wang

3135: AugSplicing: Synchronized Behavior Detection in Streaming Tensors
Jiabao Zhang, Shenghua Liu, Wenting Hou, Siddharth Bhatia, Huawei Shen, Wenjian Yu, Xueqi Cheng

3138: Amodal Segmentation Based on Visible Region Segmentation and Shape Prior
Yuting Xiao, Yanyu Xu, Ziming Zhong, Weixin Luo, Jiawei Li, Shenghua Gao

3154: SCNet: Training Inference Sample Consistency for Instance Segmentation
Thang Van Vu, Haeyong Kang, Chang D. Yoo

3163: Re-TACRED: Addressing Shortcomings of the TACRED Dataset
George I Stoica, Emmanouil Antonios Platanios, Barnabas Poczos

3167: ActionBert: Leveraging User Actions for Semantic Understanding of User Interfaces
Zecheng He, Srinivas Sunkara, Xiaoxue Zang, Ying Xu, Lijuan Liu, Nevan Wichers, Gabriel Schubiner, Ruby Lee, Jindong Chen

3177: Joint Color-Irrelevant Consistency Learning and Identity-Aware Modality Adaptation for Visible-Infrared Cross Modality Person Re-Identification
Zhiwei Zhao, Bin Liu, Qi Chu, Yan Lu, Nenghai Yu

3182: Cold-Start Sequential Recommendation via Meta Learner
Yujia Zheng, Siyi Liu, Zekun Li, Shu Wu

3193: Adaptive Prior-Dependent Correction Enhanced Reinforcement Learning for Natural Language Generation
Wei Cheng, Ziyan Luo, Qiyue Yin

3196: The Importance of Modeling Data Missingness in Algorithmic Fairness: A Causal Perspective
Naman Goel, Alfonso Amayuelas, Amit Deshpande, Amit Sharma

3197: Learning Local Neighboring Structure for Robust 3D Shape Representation
Zhongpai Gao, Junchi Yan, Guangtao Zhai, Juyong Zhang, Yiyan Yang, Xiaokang Yang

3200: Deep Partial Rank Aggregation for Personalized Attributes
Qianqian Xu, Zhiyong Yang, Zuyao Chen, Yangbangyan Jiang, Xiaochun Cao, Yuan Yao, Qingming Huang

3203: SSD-GAN: Measuring the Realness in the Spatial and Spectral Domains
Yuanqi Chen, Ge Li, Cece Jin, Shan Liu, Thomas H Li

3209: A Novel Visual Interpretability for Deep Neural Networks by Optimizing Activation Maps with Perturbation
Qinglong Zhang, Lu Rao, Yubin Yang

3211: Scene Graph Embeddings Using Relative Similarity Supervision
Paridhi Maheshwari, Ritwick Chaudhry, Vishwa Vinay

3214: Deterministic Mini-Batch Sequencing for Training Deep Neural Networks
Subhankar Banerjee, Shayok Chakraborty

3217: A Complexity-Theoretic Analysis of Green Pickup-and-Delivery Problems
Xing Tan, Jimmy Huang

3224: Temporal Segmentation of Fine-Gained Semantic Action: A Motion-Centered Figure Skating Dataset
Shenglan Liu, Aibin Zhang, Yunheng Li, Jian Zhou, Li Xu, Zhuben Dong, Renhao Zhang

3231: Stratified Negation in Datalog with Metric Temporal Operators
David J Tena Cucala, Przemysław A Wałęga, Bernardo Cuenca Grau, Egor Kostylev

3245: Learning the Parameters of Bayesian Networks from Uncertain Data
Segev Wasserkrug, Radu Marinescu, Sergey Zeltyn, Evgeny Shindin, Yishai A Feldman

3254: Dense Events Grounding in Video
Peijun Bao, Qian Zheng, Yadong Mu

3262: Continuous Self-Attention Models with Neural ODE Networks
Jing Zhang, Peng Zhang, Baiwen Kong, Junqiu Wei, Xin Jiang

3263: On-the-Fly Synthesis for LTL over Finite Traces
Shengping Xiao, Jianwen Li, Shufang Zhu, Yingying Shi, Geguang Pu, Moshe Vardi

3268: Graph-to-Graph: Towards Accurate and Interpretable Online Handwritten Mathematical Expression Recognition
Jin-Wen Wu, Fei Yin, Yanming Zhang, Xu-Yao Zhang, Cheng-Lin Liu

3270: Peer Collaborative Learning for Online Knowledge Distillation
Guile Wu, Shaogang Gong

3279: A Hybrid Stochastic Gradient Hamiltonian Monte Carlo Method
Chao Zhang, Zhijian Li, Zebang Shen, Jiahao Xie, Hui Qian

3285: DeepCollaboration: Collaborative Generative and Discriminative Models for Class Incremental Learning
Bo Cui, Guyue Hu, Shan Yu

3290: GDPNet: Refining Latent Multi-View Graph for Relation Extraction
Fuzhao Xue, Aixin Sun, Hao Zhang, Eng Siong Chng

3310: Argument Mining Driven Analysis of Peer-Reviews
Michael Fromm, Evgeniy Faerman, Max Berrendorf, Siddharth Bhargava, Ruoxia Qi, Yao Zhang, Lukas Dennert, Sophia Selle, Yang Mao, Thomas Seidl

3323: Adversarial Training with Fast Gradient Projection Method against Synonym Substitution Based Text Attacks
Xiaosen Wang, Yichen Yang, Yihe Deng, Kun He

3326: Newton Optimization on Helmholtz Decomposition for Continuous Games
Giorgia Ramponi, Marcello Restelli

3331: United for Change: Deliberative Coalition Formation to Change the Status Quo
Edith Elkind, Grossi Davide, Ehud Shapiro, Nimrod Talmon

3337: Voxel R-CNN: Towards High Performance Voxel-Based 3D Object Detection
Jiajun Deng, Shaoshuai Shi, Peiwei Li, Wengang Zhou, Yanyong Zhang, Houqiang Li

3339: Optical Flow Estimation from a Single Motion-Blurred Image
Dawit Mureja Argaw, Junsik Kim, Francois Rameau, Jae Won Cho, In So Kweon

3343: Motion-Blurred Video Interpolation and Extrapolation
Dawit Mureja Argaw, Junsik Kim, Francois Rameau, In So Kweon

3345: Co-Mining: Self-Supervised Learning for Sparsely Annotated Object Detection

Tiancai Wang, Tong Yang, Jiale Cao, Xiangyu Zhang

3365: Uncertainty-Aware Multi-View Representation Learning
Yu Geng, Zongbo Han, Changqing Zhang, Qinghua Hu

3370: Temporal ROI Align for Video Object Recognition
Tao Gong, Kai Chen, Xinjiang Wang, Qi Chu, Feng Zhu, Dahua Lin, Nenghai Yu, Huamin Feng

3376: Learning from My Friends: Few-Shot Personalized Conversation Systems via Social Networks
Zhiliang Tian, Wei Bi, Zihan Zhang, Dongkyu Lee, Yiping Song, Nevin L Zhang

3382: Imagine, Reason and Write: Visual Storytelling with Graph Knowledge and Relational Reasoning
Chunpu Xu, Chengming Li, Ying Shen, Xiang Ao, Ruifeng Xu, Min Yang

3389: A User-Adaptive Layer Selection Framework for Very Deep Sequential Recommender Models
Lei Chen, Fajie Yuan, Jiaxi Yang, Xiang Ao, Chengming Li, Min Yang

3390: Cross-Layer Distillation with Semantic Calibration
Defang Chen, Jian-Ping Mei, Yuan Zhang, Can Wang, Zhe Wang, Yan Feng, Chun Chen

3399: Hierarchical Graph Convolution Network for Traffic Forecasting
Kan Guo, Yongli Hu, Yanfeng Sun, Sean Qian, Junbin Gao, Baocai Yin

3402: Bayesian Dynamic Mode Decomposition with Variational Matrix Factorization
Takahiro Kawashima, Hayaru Shouno, Hideitsu Hino

3412: Sequential Generative Exploration Model for Partially Observable Reinforcement Learning
Haiyan Yin, Jianda Chen, Sinno Pan, Sebastian Tschiatschek

3416: Distant Transfer Learning via Deep Random Walk
Qiao Xiao, Yu Zhang

3431: Adaptive Algorithms for Multi-Armed Bandit with Composite and Anonymous Feedback
Siwei Wang, Haoyun Wang, Longbo Huang

3433: Improving Tree-Structured Decoder Training for Code Generation via Mutual Learning
Binbin Xie, Jinsong Su, Yubin Ge, Xiang Li, Jianwei Cui, Junfeng Yao, Bin Wang

3435: A Hybrid Bandit Framework for Diversified Recommendation
Qinxu Ding, Yong Liu, Chunyan Miao, Fei Cheng, Haihong Tang

3441: One-Shot Graph Neural Architecture Search with Dynamic Search Space
Yanxi Li, Zean Wen, Yunhe Wang, Chang Xu

3446: Deep Mutual Information Maximin for Cross-Modal Clustering
Yiqiao Mao, Xiaoqiang Yan, Qiang Guo, Yangdong Ye

3447: Composite Adversarial Attacks
Xiaofeng Mao, Yuefeng Chen, Shuhui Wang, Hang Su, Yuan He, Hui Xue

3454: VMLoc: Variational Fusion for Learning-Based Multimodal Camera Localization
Kaichen Zhou, Changhao Chen, Bing Wang, Muhamad Risqi U. Saputra, Niki Trigoni, Andrew Markham

3459: Decoupled and Memory-Reinforced Networks: Towards Effective Feature Learning for One-Step Person Search
Chuchu Han, Zhedong Zheng, Changxin Gao, Nong Sang, Yi Yang

3460: Equivalent Causal Models
Sander Beckers

3467: RTS3D: Real-Time Stereo 3D Detection From 4D Feature-Consistency Embedding Space for Autonomous Driving
Peixuan Li, Shun Su, Huaici Zhao

3468: The Counterfactual NESS Definition of Causation
Sander Beckers

3486: Looking Wider for Better Adaptive Representation in Few-Shot Learning
Jiabao Zhao, Yifan Yang, Xin Lin, Jing Yang, Liang He

3496: DIRV: Dense Interaction Region Voting for End-to-End Human-Object Interaction Detection
Hao-Shu Fang, Yichen Xie, Dian Shao, Cewu Lu

3500: Fooling Thermal Infrared Pedestrian Detector in Real World Using Small Bulbs
Xiaopei Zhu, Xiao Li, Jianmin Li, Xiaolin Hu, Zheyao Wang

3507: Learning from the Best: Rationalizing Predictions by Adversarial information Calibration
Lei Sha, Oana-Maria Camburu, Thomas Lukasiewicz

3509: Dynamic Position-Aware Network for Fine-Grained Image Recognition
Shijie Wang, Haojie Li, Zhihui Wang, Wanli Ouyang

3516: Few-Shot Class-Incremental Learning via Relation Knowledge Distillation
Songlin Dong, Xiaopeng Hong, Xiaoyu Tao, Xinyuan Chang, Xing Wei, Yihong Gong

3520: Multi-Type Disentanglement without Adversarial Training
Lei Sha, Thomas Lukasiewicz

3527: Budget Feasible Mechanisms over Graphs
Xiang Liu, Weiwei Wu, Minming Li, Wanyuan Wang

3530: STL-SGD: Speeding Up Local SGD with Stagewise Communication Period
Shuheng Shen, Yifei Cheng, Jingchang Liu, Linli Xu

3534: Ethically Compliant Sequential Decision Making
Justin Svegliato, Samer Nashed, Shlomo Zilberstein

3535: Amnesiac Machine Learning
Laura Graves, Vineel Nagisetty, Vijay Ganesh

3569: Bike-Repositioning Using Volunteers: Crowd Sourcing with Choice Restriction
Jinjia Huang, Mabel C. Chou, Chung Piaw Teo

3588: Inference Fusion with Associative Semantics for Unseen Object Detection
Yanan Li, Pengyang Li, Han Cui, Donghui Wang

3606: SSPC-Net: Semi-Supervised Semantic 3D Point Cloud Segmentation Network
Mingmei Cheng, Le Hui, Jin Xie, Jian Yang

3607: Stabilizing Q Learning via Soft Mellowmax Operator
Yaozhong Gan, Zhe Zhang, Xiaoyang Tan

3617: Physics-Informed Deep Learning for Traffic State Estimation: A Hybrid Paradigm Informed by Second-Order Traffic Models
Rongye Shi, Zhaobin Mo, Xuan Di

3622: Harmonized Dense Knowledge Distillation Training for Multi-Exit Architectures
Xinglu Wang, Yingming Li

3635: Image Captioning with Context-Aware Auxiliary Guidance
Zeliang Song, Xiaofei Zhou, Zhendong Mao, Jianlong Tan

3639: PREMERE: Meta-Reweighting via Self-Ensembling for Point-of-Interest Recommendation
Minseok Kim, Hwanjun Song, Doyoung Kim, Kijung Shin, Jae-Gil Lee

3640: GSNet: Learning Spatial-Temporal Correlations from Geographical and Semantic Aspects for Traffic Accident Risk Forecasting
Beibei Wang, Youfang Lin, Shengnan Guo, Huaiyu Wan

3644: Activity Image-to-Video Retrieval by Disentangling Appearance and Motion
Liu Liu, Jiangtong Li, Li Niu, Ruicong Xu, Liqing Zhang

3648: Exploiting Diverse Characteristics and Adversarial Ambivalence for Domain Adaptive Segmentation
Bowen Cai, Huan Fu, Rongfei Jia, Binqiang Zhao, Hua Li, Yinghui Xu

3649: On the Convergence of Communication-Efficient Local SGD for Federated Learning
Hongchang Gao, An Xu, Heng Huang

3650: Universal Trading for Order Execution with Oracle Policy Distillation
Yuchen Fang, Kan Ren, Weiqing Liu, Dong Zhou, Weinan Zhang, Jiang Bian, Yong Yu, Tie-Yan Liu

3651: A Generative Adversarial Framework for Bounding Confounded Causal Effects
Yaowei Hu, Yongkai Wu, Lu Zhang, Xintao Wu

3652: Binaural Audio-Visual Localization
Xinyi Wu, Zhenyao Wu, Lili Ju, Song Wang

3653: Point Cloud Semantic Scene Completion from RGB-D Images
Shoulong Zhang, Shuai Li, Aimin Hao, Hong Qin

3665: Competitive Analysis for Two-Level Ski-Rental Problem
Binghan Wu, Wei Bao, Dong Yuan

3667: DecAug: Out-of-Distribution Generalization via Decomposed Feature Representation and Semantic Augmentation
Haoyue Bai, Rui Sun, Lanqing Hong, Fengwei Zhou, Nanyang Ye, Han-Jia Ye, Gary Chan, Zhenguo Li

3670: Improving Fairness and Privacy in Selection Problems
Mohammad Mahdi Khalili, Xueru Zhang, Mahed Abroshan, Somayeh Sojoudi

3677: An Efficient Transformer Decoder with Compressed Sub-Layers
Yanyang Li, Ye Lin, Tong Xiao, Jingbo Zhu

3679: Learning Task-Distribution Reward Shaping with Meta-Learning
Haosheng Zou, Tongzheng Ren, Dong Yan, Hang Su, Jun Zhu

3680: Consensus Graph Representation Learning for Better Grounded Image Captioning
Wenqiao Zhang, Haochen Shi, Siliang Tang, Jun Xiao, Qiang Yu, Yueting Zhuang

3684: Amata: An Annealing Mechanism for Adversarial Training Acceleration
Nanyang Ye, Qianxiao Li, Xiao-Yun Zhou, Zhanxing Zhu

3692: PC-RGNN: Point Cloud Completion and Graph Neural Network for 3D Object Detection
Yanan Zhang, Di Huang, Yunhong Wang

3696: A Theoretical Analysis of the Repetition Problem in Text Generation

Zihao Fu, Wai Lam, Anthony Man-Cho So, Bei Shi

3697: Hierarchical Coherence Modeling for Document Quality Assessment
Dongliang Liao, Jin Xu, Gongfu Li, Yiru Wang

3708: Enhancing Unsupervised Video Representation Learning by Decoupling the Scene and the Motion
Jinpeng Wang, Yuting Gao, Ke Li, Jianguo Hu, Xinyang Jiang, Xiaowei Guo, Rongrong Ji, Xing Sun

3720: Preserving Condorcet Winners under Strategic Manipulation
Sirin Botan, Ulle Endriss

3726: Multinomial Logit Contextual Bandits: Provable Optimality and Practicality
Min-hwan Oh, Garud Iyengar

3727: Visual Comfort Aware-Reinforcement Learning for Depth Adjustment of Stereoscopic 3D Images
Hak Gu Kim, Minho Park, Sangmin Lee, Seongyeop Kim, Yong Man Ro

3734: Safe Search for Stackelberg Equilibria in Extensive-Form Games
Chun Kai Ling, Noam Brown

3735: Dual Distribution Alignment Network for Generalizable Person Re-Identification
Peixian Chen, Pingyang Dai, Jianzhuang Liu, Feng Zheng, Mingliang Xu, Qi Tian, Rongrong Ji

3738: Uncovering Latent Biases in Text: Method and Application to Peer Review
Emaad Manzoor, Nihar Shah

3742: Towards a Better Understanding of VR Sickness: Physical Symptom Prediction for VR Contents
Hak Gu Kim, Sangmin Lee, Seongyeop Kim, Heoun-taek Lim, Yong Man Ro

3751: MIMOSA: Multi-Constraint Molecule Sampling for Molecule Optimization
Tianfan Fu, Cao Xiao, Xinhao Li, Lucas Glass, Jimeng Sun

3755: What's the Best Place for an AI Conference, Vancouver or _____: Why Completing Comparative Questions Is Difficult
Avishai Zagoury, Einat Minkov, Idan Szpektor, William W Cohen

3766: Convergence Analysis of No-Regret Bidding Algorithms in Repeated Auctions
Zhe Feng, Guru Guruganesh, Christopher Liaw, Aranyak Mehta, Abhishek Sethi

3767: Interpretable NLG for Task-Oriented Dialogue Systems with Heterogeneous Rendering Machines
Yangming Li, Kaisheng Yao

3769: Fairness, Semi-Supervised Learning, and More: A General Framework for Clustering with Stochastic Pairwise Constraints
Brian Brubach, Darshan Chakrabarti, John P Dickerson, Aravind Srinivasan, Leonidas Tsepenekas

3780: Integrating Static and Dynamic Data for Improved Prediction of Cognitive Declines Using Augmented Genotype-Phenotype Representations
Hoon Seo, Lodewijk Brand, Hua Wang, Feiping Nie

3796: Temporal Latent Autoencoder: A Method for Probabilistic Multivariate Time Series Forecasting
Nam Nguyen, Brian Quanz

3800: STELAR: Spatio-Temporal Tensor Factorization with Latent Epidemiological Regularization
Nikos Kargas, Cheng Qian, Nicholas Sidiropoulos, Cao Xiao, Lucas Glass, Jimeng Sun

3802: MolGrow: A Graph Normalizing Flow for Hierarchical Molecular Generation
Maksim Kuznetsov, Daniil Polykovskiy

3803: The Tractability of SHAP-Score-Based Explanations for Classification over Deterministic and Decomposable Boolean Circuits
Marcelo Arenas, Pablo Barceló, Leopoldo Bertossi, Mikaël Monet

3805: Constructing a Fair Classifier with Generated Fair Data
Taeuk Jang, Feng Zheng, Xiaoqian Wang

3806: Hypothesis Disparity Regularized Mutual information Maximization
Qicheng Lao, Xiang Jiang, Mohammad Havaei

3807: Finding and Certifying (Near-)Optimal Strategies in Black-Box Extensive-Form Games
Brian H Zhang, Tuomas Sandholm

3812: Scheduling of Time-Varying Workloads Using Reinforcement Learning
Shanka Subhra Mondal, Nikhil Sheoran, Subrata Mitra

3820: Self-Correcting Q-Learning
Rong Zhu, Mattia Rigotti

3823: Open-Set Recognition with Gaussian Mixture Variational Autoencoders
Alexander Cao, Yuan Luo, Diego Klabjan

3838: A Student-Teacher Architecture for Dialog Domain Adaptation under the Meta-Learning Setting
Kun Qian, Wei Wei, Zhou Yu

3840: Sample-Specific Output Constraints for Neural Networks
Mathis Brosowsky, Florian Keck, Olaf Dünkel, Marius Zöllner

3843: Preference Elicitation as Average-Case Sorting
Dominik Peters, Ariel D Procaccia

3850: Generate Your Counterfactuals: Towards Controlled Counterfactual Generation for Text
Nishtha Madan, Inkit Padhi, Naveen Panwar, Diptikalyan Saha

3857: Optimal Kidney Exchange with Immunosuppressants
Haris Aziz, Agnes Cseh, John P Dickerson, Duncan C McElfresh

3883: Online Learning in Variable Feature Spaces under Incomplete Supervision
Yi He, Xu Yuan, Sheng Chen, Xindong Wu

3885: ChronoR: Rotation Based Temporal Knowledge Graph Embedding
Ali Sadeghian, Mohammadreza Armandpour, Anthony Colas, Daisy Zhe Wang

3897: Diverse Knowledge Distillation for End-to-End Person Search
Xinyu Zhang, Xinlong Wang, Jia-Wang Bian, Chunhua Shen, Mingyu You

3898: SWIFT: Scalable Wasserstein Factorization for Sparse Nonnegative Tensors
Ardavan Afshar, Kejing Yin, Sherry Yan, Cheng Qian, Joyce Ho, Haesun Park, Jimeng Sun

3899: Continuous-Time Attention for Sequential Learning
Yi-Hsiang Chen, Jen-Tzung Chien

3907: Accurate and Robust Feature Importance Estimation under Distribution Shifts
Jayaraman J. Thiagarajan, Vivek Narayanaswamy, Rushil Anirudh, Peer-Timo Bremer, Andreas Spanias

3913: Deep Fusion Clustering Network
Wenxuan Tu, Sihang Zhou, Xinwang Liu, Xifeng Guo, Zhiping Cai, En Zhu, Jieren Cheng

3917: SSN3D: Self-Separated Network to Align Parts for 3D Convolution in Video Person Re-Identification
Xiaoke Jiang, Yu Qiao, Junjie Yan, Qichen Li, Wanrong Zheng, Dapeng Chen

3927: Deep Portfolio Optimization via Distributional Prediction of Residual Factors
Kentaro Imajo, Kentaro Minami, Katsuya Ito, Kei Nakagawa

3949: Conceptualized and Contextualized Gaussian Embedding
Chen Qian, Fuli Feng, Lijie Wen, Tat-Seng Chua

3951: Regularizing Attention Networks for Anomaly Detection in Visual Question Answering

Doyup Lee, Yeongjae Cheon, Wook-Shin Han

3952: Scalable and Safe Multi-Agent Motion Planning with Nonlinear Dynamics and Bounded Disturbances
Jingkai Chen, Jiaoyang Li, Chuchu Fan, Brian C Williams

3955: Adversarial Robustness through Disentangled Representations
Shuo Yang, Tianyu Guo, Yunhe Wang, Chang Xu

3967: Improving Model Robustness by Adaptively Correcting Perturbation Levels with Active Queries
Kun-Peng Ning, Lue Tao, Songcan Chen, Sheng-Jun Huang

3972: Query-Memory Re-Aggregation for Weakly-Supervised Video Object Segmentation
Fanchao Lin, Hongtao Xie, Yan Li, Yongdong Zhang

3976: Heterogeneous Graph Structure Learning for Graph Neural Networks
Jianan Zhao, Xiao Wang, Chuan Shi, Binbin Hu, Guojie Song, Yanfang Ye

3996: Generative Partial Visual-Tactile Fused Object Clustering
Tao Zhang, Yang Cong, Gan Sun, Jiahua Dong, Yuyang Liu, Zhengming Ding

4019: Large Batch Optimization for Deep Learning Using New Complete Layer-Wise Adaptive Rate Scaling
Zhouyuan Huo, Bin Gu, Heng Huang

4024: Integrated Optimization of Bipartite Matching and Its Stochastic Behavior: New Formulation and Approximation Algorithm via Min-Cost Flow Optimization
Yuya Hikima, Yasunori Akagi, Hideaki Kim, Masahiro Kohjima, Takeshi Kurashima, Hiroyuki Toda

4027: Multi-View information-Bottleneck Representation Learning
Zhibin Wan, Changqing Zhang, Pengfei Zhu, Qinghua Hu

4043: A Trace-Restricted Kronecker-Factored Approximation to Natural Gradient
Kaixin Gao, Xiaolei Liu, Zhenghai Huang, Min Wang, Zidong Wang, Dachuan Xu, Fan Yu

4046: Writing Polishment with Simile: Task, Dataset and a Neural Approach
Jiayi Zhang, Zhi Cui, Xiaoqiang Xia, Yalong Guo, Yanran Li, Chen Wei, Jianwei Cui

4049: Show Me How To Revise: Improving Lexically Constrained Sentence Generation with XLNet
Xingwei He, Victor O.K. Li

4056: District-Fair Participatory Budgeting
D Ellis Hershkowitz, Anson Kahng, Dominik Peters, Ariel D Procaccia

4067: Train a One-Million-Way Instance Classifier for Unsupervised Visual Representation Learning
Yu Liu, Lianghua Huang, Pan Pan, Bin Wang, Yinghui Xu, Rong Jin

4093: Transformer-Style Relational Reasoning with Dynamic Memory Updating for Temporal Network Modeling
Dongkuan Xu, Junjie Liang, Wei Cheng, Hua Wei, Haifeng Chen, Xiang Zhang

4110: Lexically Constrained Neural Machine Translation with Explicit Alignment Guidance
Guanhua Chen, Yun Chen, Victor O.K. Li

4111: Capturing Delayed Feedback in Conversion Rate Prediction via Elapsed-Time Sampling
Jia-Qi Yang, Xiang Li, Shuguang Han, Tao Zhuang, De-Chuan Zhan, Xiaoyi Zeng, Bin Tong

4120: Appearance-Motion Memory Consistency Network for Video Anomaly Detection
Ruichu Cai, Hao Zhang, Wen Liu, Shenghua Gao, Zhifeng Hao

4138: Training Spiking Neural Networks with Accumulated Spiking Flow
Hao Wu, Yueyi Zhang, Wenming Weng, Yongting Zhang, Zhiwei Xiong, Zheng-Jun Zha, Xiaoyan Sun, Feng Wu

4139: Multi-Task Recurrent Modular Networks
Dongkuan Xu, Wei Cheng, Xin Dong, Bo Zong, Wenchao Yu, Jingchao Ni, Dongjin Song, Xuchao Zhang, Haifeng Chen, Xiang Zhang

4146: Relation-Aware Neighborhood Matching Model for Entity Alignment
Yao Zhu, Hongzhi Liu, Zhonghai Wu, Yingpeng Du

4156: Finding Sparse Structure for Domain Specific Neural Machine Translation
Jianze Liang, Chengqi Zhao, Mingxuan Wang, Xipeng Qiu, Lei Li

4167: Distilling Localization for Self-Supervised Representation Learning
Nanxuan Zhao, Zhirong Wu, Rynson W.H. Lau, Stephen Lin

4182: Attributes-Guided and Pure-Visual Attention Alignment for Few-Shot Recognition
Siteng Huang, Min Zhang, Yachen Kang, Donglin Wang

4186: One for More: Selecting Generalizable Samples for Generalizable ReID Model
Enwei Zhang, Xinyang Jiang, Hao Cheng, Ancong Wu, Fufu Yu, Ke Li, Xiaowei Guo, Feng Zheng, Wei-Shi Zheng, Xing Sun

4197: Deep Semantic Dictionary Learning for Multi-Label Image Classification
Fengtao Zhou, Sheng Huang, Yun Xing

4202: Meta-Learning Effective Exploration Strategies for Contextual Bandits
Amr Sharaf, Hal Daume

4214: Unsupervised 3D Learning for Shape Analysis via Multiresolution Instance Discrimination
Peng-Shuai Wang, Yuqi Yang, Qianfang Zou, Zhirong Wu, Yang Liu, Xin Tong

4220: Provable Benefits of Overparameterization in Model Compression: From Double Descent to Pruning Neural Networks
Xiangyu Chang, Yingcong Li, Samet Oymak, Christos Thrampoulidis

4221: Learning Semantic Context from Normal Samples for Unsupervised Anomaly Detection
Xudong Yan, Huaidong Zhang, Xuemiao Xu, Xiaowei Hu, Pheng-Ann Heng

4224: Diagnose Like a Pathologist: Weakly-Supervised Pathologist-Tree Network for Slide-Level Immunohistochemical Scoring
Zhen Chen, Jun Zhang, Shuanlong Che, Junzhou Huang, Xiao Han, Yixuan Yuan

4252: Bayes DistNet - A Robust Neural Network for Algorithm Runtime Distribution Predictions
Jake Tuero, Michael Buro

4255: PASSLEAF: A Pool-Based Semi-Supervised Learning Framework for Uncertain Knowledge Graph Embedding
Zhu-Mu Chen, Mi-Yen Yeh, Tei-Wei Kuo

4267: Disentangled Representation Learning in Heterogeneous Information Network for Large-Scale Android Malware Detection in the COVID-19 Era and Beyond
Shifu Hou, Yujie Fan, Mingxuan Ju, Yanfang Ye, Wenqiang Wan, Kui Wang, Yinming Mei, Qi Xiong, Fudong Shao

4269: LightXML: Transformer with Dynamic Negative Sampling for High-Performance Extreme Multi-Label Text Classification
Ting Jiang, Deqing Wang, Leilei Sun, Huayi Yang, Zhengyang Zhao, Fuzhen Zhuang

4272: MUFASA: Multimodal Fusion Architecture Search for Electronic Health Records
Zhen Xu, David So, Andrew M Dai

4278: VisualMRC: Machine Reading Comprehension on Document Images
Ryota Tanaka, Kyosuke Nishida, Sen Yoshida

4279: HiGAN: Handwriting Imitation Conditioned on Arbitrary-Length Texts and Disentangled Styles
Ji Gan, Weiqiang Wang

4284: Latent Independent Excitation for Generalizable Sensor-Based Cross-Person Activity Recognition
Hangwei Qian, Sinno Pan, Chunyan Miao

4293: Algebra of Modular Systems: Containment and Equivalence
Andrei Bulatov, Eugenia Ternovska

4295: Multi-SpectroGAN: High-Diversity and High-Fidelity Spectrogram Generation with Adversarial Style Combination for Speech Synthesis
Sang-Hoon Lee, Hyun-Wook Yoon, Hyeong-Rae Noh, Ji-Hoon Kim, Seong-Whan Lee

4296: Rethinking Object Detection in Retail Stores
Cai YuanQiang, Longyin Wen, Libo Zhang, Dawei Du, Weiqiang Wang

4301: KG-BART: Knowledge Graph-Augmented Bart for Generative Commonsense Reasoning
Ye Liu, Yao Wan, Lifang He, Hao Peng, Philip S Yu

4302: EMLight: Lighting Estimation via Spherical Distribution Approximation
Fangneng Zhan, Changgong Zhang, Yingchen Yu, Yuan Chang, Shijian Lu, Feiying Ma, Xuansong Xie

4306: Sequential End-to-End Network for Efficient Person Search
Zhengjia Li, Duoqian Miao

4313: Gene Regulatory Network Inference Using 3D Convolutional Neural Network
Yue Fan, Xiuli Ma

4317: A General Class of Transfer Learning Regression without Implementation Cost
Shunya Minami, Song Liu, Stephen Wu, Kenji Fukumizu, Ryo Yoshida

4322: SeCo: Exploring Sequence Supervision for Unsupervised Representation Learning
Ting Yao, Yiheng Zhang, Zhaofan Qiu, Yingwei Pan, Tao Mei

4324: Does Head Label Help for Long-Tailed Multi-Label Text Classification
Lin Xiao, Xiangliang Zhang, Chi Huang, Mingyang Song, Liping Jing

4333: Aggregated Multi-GANs for Controlled 3D Human Motion Prediction
Zhenguang Liu, Kedi Lyu, Shuang Wu, Haipeng Chen, Yanbin Hao, Shouling Ji

4335: Label Confusion Learning to Enhance Text Classification Models
Biyang Guo, Songqiao Han, Xiao Han, Hailiang Huang, Ting Lu

4341: CPCGAN: A Controllable 3D Point Cloud Generative Adversarial Network with Semantic Label Generating
Ximing Yang, Yuan Wu, Kaiyi Zhang, Cheng Jin

4344: Deep Feature Space Trojan Attack of Neural Networks by Controlled Detoxification
Siyuan Cheng, Yingqi Liu, Shiqing Ma, Xiangyu Zhang

4349: Interpreting Deep Neural Networks with Relative Sectional Propagation by Analyzing Comparative Gradients and Hostile Activations
Woo Jeoung Nam, Jaesik Choi, Seong-Whan Lee

4355: Efficient Folded Attention for Medical Image Reconstruction and Segmentation
Hang Zhang, Jinwei Zhang, Rongguang Wang, Qihao Zhang, Pascal Spincemaille, Thanh D. Nguyen, Yi Wang

4382: Uncertainty-Matching Graph Neural Networks to Defend against Poisoning Attacks
Uday Shankar Shanthamallu, Jayaraman J. Thiagarajan, Andreas Spanias

4386: DEAR: Deep Reinforcement Learning for Online Advertising Impression in Recommender Systems
Xiangyu Zhao, Changsheng Gu, Haoshenglun Zhang, Xiwang Yang, Xiaobing Liu, Jiliang Tang , Hui Liu

4394: Read, Retrospect, Select: An MRC Framework to Short Text Entity Linking
Yingjie Gu, Xiaoye Qu, Zhefeng Wang, Baoxing Huai, Nicholas Jing Yuan, Xiaolin Gui

4433: Text-Guided Graph Neural Networks for Referring 3D Instance Segmentation
Pin-Hao Huang, Han-Hung Lee, Hwann-Tzong Chen, Tyng-Luh Liu

4445: Learning Disentangled Representation for Fair Facial Attribute Classification via Fairness-Aware information Alignment
Sungho Park, Sunhee Hwang, Dohyung Kim, Hyeran Byun

4450: AI-Assisted Scientific Data Collection with Iterative Human Feedback
Travis Mandel, James Boyd, Sebastian J Carter, Randall H Tanaka, Taishi Nammoto

4461: KEML: A Knowledge-Enriched Meta-Learning Framework for Lexical Relation Classification
Chengyu Wang, Minghui Qiu, Jun Huang, Xiaofeng He

4463: Simultaneous 2nd Price Item Auctions with No-Underbidding
Michal Feldman, Galia Shabtai

4464: Discriminative Region Suppression for Weakly-Supervised Semantic Segmentation
Beomyoung Kim, Sangeun Han, Junmo Kim

4465: Meta-Curriculum Learning for Domain Adaptation in Neural Machine Translation
Runzhe Zhan, Xuebo Liu, Derek F. Wong, Lidia S. Chao

4473: TRQ: Ternary Neural Networks with Residual Quantization
Yue Li, Wenrui Ding, Chunlei Liu, Baochang Zhang, Guodong Guo

4481: TextGAIL: Generative Adversarial Imitation Learning for Text Generation

Qingyang Wu, Lei Li, Zhou Yu

4491: Alternative Baselines for Low-Shot 3D Medical Image Segmentation---An Atlas Perspective
Shuxin Wang, Shilei Cao, Dong Wei, Cong Xie, Kai Ma, Liansheng Wang, Deyu Meng, Yefeng Zheng

4492: Fast Multi-View Discrete Clustering with Anchor Graphs
Qianyao Qiang, Bin Zhang, Fei Wang, Feiping Nie

4515: Aspect-Level Sentiment-Controllable Review Generation with Mutual Learning Framework
Huimin Chen, Yankai Lin, Fanchao Qi, Jinyi Hu, Peng Li, Jie Zhou, Maosong Sun

4524: Knowledge-Driven Distractor Generation for Cloze-Style Multiple Choice Questions
Siyu Ren, Kenny Zhu

4527: Future-Guided Incremental Transformer for Simultaneous Translation
Shaolei Zhang, Yang Feng, Liangyou Li

4531: REFINE: Prediction Fusion Network for Panoptic Segmentation
Jiawei Ren, Cunjun Yu, Zhongang Cai, Mingyuan Zhang, Chongsong Chen, Haiyu Zhao, Shuai Yi, Hongsheng Li

4536: Simple and Effective Stochastic Neural Networks
Tianyuan Yu, Yongxin Yang, Da Li, Timothy Hospedales, Tao Xiang

4541: Learning to Augment for Data-Scarce Domain BERT Knowledge Distillation
Lingyun Feng, Minghui Qiu, Yaliang Li, Ying Shen, Hai-Tao Zheng

4553: DeepwriteSYN: On-Line Handwriting Synthesis via Deep Short-Term Representations
Ruben Tolosana, Paula Delgado-Santos, Andres Perez-Uribe, Ruben Vera-Rodriguez, Julian Fierrez, Aythami Morales

4570: Bigram and Unigram Based Text Attack via Adaptive Monotonic Heuristic Search
Xinghao Yang, Weifeng Liu, James Bailey, Dacheng Tao, Wei Liu

4583: Unsupervised Model Adaptation for Continual Semantic Segmentation
Serban Stan, Mohammad Rostami

4601: Supervised Training of Dense Object Nets Using Optimal Descriptors for Industrial Robotic Applications
Andras Kupcsik, Markus Spies, Alexander Klein, Marco Todescato, Nicolai Waniek, Philipp Schillinger, Mathias Buerger

4616: Reaching Individually Stable Coalition Structures in Hedonic Games
Felix Brandt, Martin Bullinger, Anaëlle Wilczynski

4619: Progressive Multi-Task Learning with Controlled information Flow for Joint Entity and Relation Extraction
Kai Sun, Richong Zhang, Samuel A. Mensah, Yongyi Mao, Xudong Liu

4620: On the Complexity of Sum-of-Products Problems over Semirings
Thomas Eiter, Rafael Kiesel

4639: Unsupervised Domain Adaptation for Person Re-Identification via Heterogeneous Graph Alignment
Minying Zhang, Kai Liu, Yidong Li, Shihui Guo, Hongtao Duan, Yimin Long, Yi Jin

4640: Polynomial-Time Algorithms for Counting and Sampling Markov Equivalent DAGs
Marcel Wienöbst, Max Bannach, Maciej Liskiewicz

4658: Adaptive Pattern-Parameter Matching for Robust Pedestrian Detection
Mengyin Liu, Chao Zhu, Jun Wang, Xu-Cheng Yin

4662: Persuading Voters in District-Based Elections
Matteo Castiglioni, Nicola Gatti

4673: An Unsupervised Sampling Approach for Image-Sentence Matching Using Document-Level Structural information
Zejun Li, Zhongyu Wei, Zhihao Fan, Haijun Shan, Xuanjing Huang

4676: A Multi-Step-Ahead Markov Conditional Forward Model with Cube Perturbations for Extreme Weather Forecasting
Chia-Yuan Chang, Cheng-Wei Lu, Chuan-Ju Wang

4678: Unsupervised Learning of Deterministic Dialogue Structure with Edge-Enhanced Graph Auto-Encoder
Yajing Sun, Yong Shan, Chengguang Tang, Yue Hu, Yinpei Dai, Jing Yu, Jian Sun, Fei Huang, Luo Si

4681: Backdoor Decomposable Monotone Circuits and Propagation Complete Encodings
Petr Kučera, Petr Savický

4693: Deep Spiking Neural Network with Neural Oscillation and Spike-Phase information
Yi Chen, Hong Qu, Malu Zhang, Yuchen Wang

4715: A Scalable Reasoning and Learning Approach for Neural-Symbolic Stream Fusion
Danh Le Phuoc, Thomas Eiter, Tuan Anh Le

4719: Complexity and Algorithms for Exploiting Quantal Opponents in Large Two-Player Games
David Milec, Jakub Cerny, Viliam Lisy, Bo An

4723: Gated Linear Networks

Joel Veness, Tor Lattimore, David Budden, Avishkar Bhoopchand, Christopher Mattern, Agnieszka Grabska-Barwinska, Eren Sezener, Jianan Wang, Peter Toth, Simon Schmitt, Marcus Hutter

4726: MASKER: Masked Keyword Regularization for Reliable Text Classification
Seung Jun Moon, Sangwoo Mo, Kimin Lee, Jaeho Lee, Jinwoo Shin

4761: A Free Lunch for Unsupervised Domain Adaptive Object Detection without Source Data
Xianfeng Li, Weijie Chen, Di Xie, Shicai Yang, Peng Yuan, Shiliang Pu, Yueting Zhuang

4766: Riemannian Embedding Banks for Common Spatial Patterns with EEG-Based SPD Neural Networks
Yoon-Je Suh, Byung Hyung Kim

4767: Evolutionary Approach for Autoaugment Using the Thermodynamical Genetic Algorithm
Akira Terauchi, Naoki Mori

4809: High Fidelity GAN Inversion via Prior Multi-Subspace Feature Composition
Guanyue Li, Qianfen Jiao, Sheng Qian, Si Wu, Hau San Wong

4822: Cost-Aware Graph Generation: A Deep Bayesian Optimization Approach
Jiaxu Cui, Bo Yang, Bingyi Sun, Jiming Liu

4838: FLAME: Differentially Private Federated Learning in the Shuffle Model
Ruixuan Liu, Yang Cao, Hong Chen, Ruoyang Guo, Masatoshi Yoshikawa

4841: Locate Globally, Segment Locally: A Progressive Architecture with Knowledge Review Network for Salient Object Detection
Binwei Xu, Haoran Liang, Ronghua Liang, Peng Chen

4847: Curriculum-Meta Learning for Order-Robust Continual Relation Extraction
Tongtong Wu, Xuekai Li, Yuan-Fang Li , Reza Haffari, Guilin Qi, Yujin Zhu, Guoqiang Xu

4848: Write-a-Speaker: Text-Based Emotional and Rhythmic Talking-Head Generation
Lincheng Li, Suzhen Wang, Zhimeng Zhang, Yu Ding, Yixing Zheng, Xin Yu, Changjie Fan

4849: DPM: A Novel Training Method for Physics-Informed Neural Networks in Extrapolation
Jungeun Kim, Kookjin Lee, Dongeun Lee, Sheo Yon Jin, Noseong Park

4859: An LP-Based Approach for Goal Recognition as Planning
Luísa R. A. Santos, Felipe Meneguzzi, Ramon Fraga Pereira, André Grahl Pereira

4870: Double Oracle Algorithm for Computing Equilibria in Continuous Games
Lukáš Adam, Rostislav Horčík, Tomáš Kasl, Tomáš Kroupa

4875: Static-Dynamic interaction Networks for Offline Signature Verification

Huan Li, Ping Wei, Ping Hu

4876: Progression Heuristics for Planning with Probabilistic LTL Constraints
Ian Mallett, Sylvie Thiebaux, Felipe Trevizan

4893: Multi-View Representation Learning with Manifold Smoothness
Shu Li, Wei Wang, Wen-Tao Li, Pan Chen

4895: Equitable Scheduling on a Single Machine
Klaus Heeger, Dan Hermelin, George Mertzios, Hendrik Molter, Rolf Niedermeier, Dvir Shabtay

4901: The Complexity of Object Association in Multiple Object Tracking
Robert Ganian, Thekla Hamm, Sebastian Ordyniak

4902: Deep Style Transfer for Line Drawings
Xueting Liu, Wenliang Wu, Huisi Wu, Zhenkun Wen

4917: KAN: Knowledge-Aware Attention Network for Fake News Detection
Yaqian Dun, Kefei Tu, Chen Chen, Chunyan Hou, Xiaojie Yuan

4919: Deep Radial-Basis Value Functions for Continuous Control
Kavosh Asadi, Neev Parikh, Ron Parr, George Konidaris, Michael L. Littman

4927: Communicative Message Passing for Inductive Relation Reasoning
Sijie Mai, Shuangjia Zheng, Yuedong Yang, Haifeng Hu

4940: TSQA: Tabular Scenario Based Question Answering
Xiao Li, Yawei Sun, Gong Cheng

4950: Deep Just-in-Time Inconsistency Detection between Comments and Source Code
Sheena L Panthaplackel, Junyi Jessy Li, Milos Gligoric, Raymond Mooney

4951: Transfer Graph Neural Networks for Pandemic Forecasting
Georgios Panagopoulos, Giannis Nikolentzos, Michalis Vazirgiannis

4958: HMS: A Hierarchical Solver with Dependency-Enhanced Understanding for Math Word Problem
Xin Lin, Zhenya Huang, Hongke Zhao, Enhong Chen, Qi Liu, Hao Wang, Shijin Wang

4960: A Novice-Reviewer Experiment to Address Scarcity of Qualified Reviewers in Large Conferences
Ivan Stelmakh, Nihar Shah, Aarti Singh, Hal Daume

4967: Overcoming Catastrophic Forgetting in Graph Neural Networks with Experience Replay
Fan Zhou, Chengtai Cao

4968: Signaling in Bayesian Network Congestion Games: The Subtle Power of Symmetry
Matteo Castiglioni, Andrea Celli, Alberto Marchesi, Nicola Gatti

4971: Optimal Decision Trees for Nonlinear Metrics
Emir Demirović, Peter Stuckey

4972: REM-Net: Recursive Erasure Memory Network for Commonsense Evidence Refinement
Yinya Huang, Meng Fang, Xunlin Zhan, Qingxing Cao, Xiaodan Liang

4979: Semantic Consistency Networks for 3D Object Detection
Wenwen Wei, Ping Wei, Nanning Zheng

4981: Personalized Adaptive Meta Learning for Cold-Start User Preference Prediction
Runsheng Yu, Yu Gong, Xu He, Yu Zhu, Qingwen Liu, Wenwu Ou, Bo An

4984: Towards Enabling Learnware to Handle Unseen Jobs
Yu-Jie Zhang, Yu-Hu Yan, Peng Zhao, Zhi-Hua Zhou

4986: Region-Aware Global Context Modeling for Automatic Nerve Segmentation from Ultrasound Images
Huisi Wu, Jiasheng Liu, Wei Wang, Zhenkun Wen, Jing Qin

4990: Fully-Connected Tensor Network Decomposition and Its Application to Higher-Order Tensor Completion
Yu-Bang Zheng, Ting-Zhu Huang, Xi-Le Zhao, Qibin Zhao, Tai-Xiang Jiang

4992: Catch Me If I Can: Detecting Strategic Behaviour in Peer Assessment
Ivan Stelmakh, Nihar Shah, Aarti Singh

4998: Decision-Guided Weighted Automata Extraction from Recurrent Neural Networks
Xiyue Zhang, Xiaoning Du, Xiaofei Xie, Lei Ma, Yang Liu, Meng Sun

4999: Bayesian Optimized Monte Carlo Planning
John Mern, Anil Yildiz, Zachary Sunberg, Tapan Mukerji, Mykel Kochenderfer

5002: Precise Yet Efficient Semantic Calibration and Refinement in ConvNets for Real-Time Polyp Segmentation from Colonoscopy Videos
Huisi Wu, Jiafu Zhong, Wei Wang, Zhenkun Wen, Jing Qin

5007: Deep Low-Contrast Image Enhancement Using Structure Tensor Representation
Hyungjoo Jung, Hyunsung Jang, Namkoo Ha, Kwanghoon Sohn

5008: Towards Effective Context for Meta-Reinforcement Learning: An Approach Based on Contrastive Learning

Haotian Fu, Hongyao Tang, Jianye Hao, Chen Chen, Xidong Feng, Dong Li, Wulong Liu

5009: How Do We Move: Modeling Human Movement with System Dynamics
Hua Wei, Dongkuan Xu, Junjie Liang, Zhenhui (Jessie) Li

5012: Improved POMDP Tree Search Planning with Prioritized Action Branching
John Mern, Anil Yildiz, Lawrence Bush, Tapan Mukerji, Mykel Kochenderfer

5018: Parameterized Algorithms for MILPS with Small Treedepth
Cornelius Brand, Martin Koutecky, Sebastian Ordyniak

5023: Joint Semantic-Geometric Learning for Polygonal Building Segmentation
Weijia Li, Wenqian Zhao, Huaping Zhong, Conghui He, Dahua Lin

5031: The Parameterized Complexity of Clustering Incomplete Data
Eduard Eiben, Robert Ganian, Iyad Kanj, Sebastian Ordyniak, Stefan Szeider

5035: Document-Level Relation Extraction with Reconstruction
Wang Xu, Kehai Chen, Tiejun Zhao

5036: Simple is Not Easy: A Simple Strong Baseline for TextVQA and TextCaps
Qi Zhu, Chenyu Gao, Peng Wang, Qi Wu

5044: Symbolic Search for Oversubscription Planning
David Speck, Michael Katz

5045: Automated Model Design and Benchmarking of Deep Learning Models for COVID-19 Detection with Chest CT Scans
Xin He, Shihao Wang, Shaohuai Shi, Xiaowen Chu, Jiangping Tang, Xin Liu, Chenggang Yan, Jiyong Zhang, Guiguang Ding

5046: Anytime Heuristic and Monte Carlo Methods for Large-Scale Simultaneous Coalition Structure Generation and Assignment
Fredrik Präntare, Fredrik Heintz, Herman Appelgren

5050: Understanding Catastrophic Overfitting in Single-Step Adversarial Training
Hoki Kim, Woojin Lee, Jaewook Lee

5056: Trembling-Hand Perfection and Correlation in Sequential Games
Alberto Marchesi, Nicola Gatti

5058: Toward Robust Long Range Policy Transfer
Wei-Cheng Tseng, Jin-Siang Lin, Yao-Min Feng, Min Sun

5072: High Dimensional Level Set Estimation with Bayesian Neural Network

Huong Ha, Sunil Gupta, Santu Rana, Svetha Venkatesh

5076: Graph Neural Network-Based Anomaly Detection in Multivariate Time Series
Ailin Deng, Bryan Hooi

5077: Answering Complex Queries in Knowledge Graphs with Bidirectional Sequence Encoders
Bhushan Kotnis, Carolin Lawrence, Mathias Niepert

5078: Neural Relational Inference with Efficient Message Passing Mechanisms
Siyuan Chen, Jiahai Wang, Guoqing Li

5082: Toward Understanding the Influence of Individual Clients in Federated Learning
Yihao Xue, Chaoyue Niu, Zhenzhe Zheng, Shaojie Tang, Chengfei Lyu, Fan Wu, Guihai Chen

5083: Edge-Competing Pathological Liver Vessel Segmentation with Limited Labels
Zunlei Feng, Zhonghua Wang, Xinchao Wang, Xiuming Zhang, Lechao Cheng, Jie Lei, Yuexuan Wang, Mingli Song

5084: A Simple Framework for Cognitive Planning
Jorge Fernandez, Dominique Longin, Emiliano Lorini, Frédéric Maris

5087: Symbolic Search for Optimal Total-Order HTN Planning
Gregor Behnke, David Speck

5089: How Linguistically Fair Are Multilingual Pre-Trained Language Models?
Monojit Choudhury, Amit Deshpande

5091: Objective-Based Hierarchical Clustering of Deep Embedding Vectors
Dmitrii Avdiukhin, Stanislav Naumov, Grigory Yaroslavtsev

5095: Multi-View Feature Representation for Dialogue Generation with Bidirectional Distillation
Shaoxiong Feng, Xuancheng Ren, Kan Li, Xu Sun

5096: Deep Graph Spectral Evolution Networks for Graph Topological Evolution
Negar Etemadyrad, Qingzhe Li, Liang Zhao

5101: Reinforcement Learning with Trajectory Feedback
Yonathan Efroni, Nadav Merlis, Shie Mannor

5105: Knowledge-Guided Object Discovery with Acquired Deep Impressions
Jinyang Yuan, Bin Li, Xiangyang Xue

5110: Tracking interaction States for Multi-Turn Text-to-SQL Semantic Parsing
Runze Wang, Zhen-Hua Ling, Jingbo Zhou, Yu Hu

5111: Commonsense Knowledge Aware Concept Selection for Diverse and Informative Visual Storytelling
Hong Chen, Yifei Huang, Hiroya Takamura, Hideki Nakayama

5116: Collaborative Group Learning
Shaoxiong Feng, Hongshen Chen, Xuancheng Ren, Zhuoye Ding, Kan Li, Xu Sun

5126: Ideography Leads Us to the Field of Cognition: A Radical-Guided Associative Model for Chinese Text Classification
Hanqing Tao, Shiwei Tong, Kun Zhang, Tong Xu, Qi Liu, Enhong Chen, Min Hou

5131: GaussianPath: A Bayesian Multi-Hop Reasoning Framework for Knowledge Graph Reasoning
Guojia Wan, Bo Du

5132: A Bottom-Up DAG Structure Extraction Model for Math Word Problems
Yixuan Cao, Feng Hong, Hongwei Li, Ping Luo

5135: Bridging the Domain Gap: Improve Informal Language Translation via Counterfactual Domain Adaptation
Ke Wang, Guandan Chen, Zhongqiang Huang, Xiaojun Wan, Fei Huang

5139: ShapeNet: A Shapelet-Neural Network Approach for Multivariate Time Series Classification
Guozhong Li, Byron Choi, Jianliang Xu, Sourav S Bhowmick, Kwok-Pan Chun, Grace Lai-Hung Wong

5154: ASHF-Net: Adaptive Sampling and Hierarchical Folding Network for Robust Point Cloud Completion
Daoming Zong, Shiliang Sun, Jing Zhao

5159: Multimodal Fusion via Teacher-Student Network for Indoor Action Recognition
Bruce X.B. Yu, Yan Liu, Keith Chan

5162: Decaug: Augmenting HOI Detection via Decomposition
Hao-Shu Fang, Yichen Xie, Dian Shao, Yong-Lu Li, Cewu Lu

5167: Encoding Human Domain Knowledge to Warm Start Reinforcement Learning
Andrew Silva, Matthew Gombolay

5171: Certifying Top-Down Decision-DNNF Compilers
Florent Capelli, Jean-Marie Lagniez, Pierre Marquis

5174: Approximate Multiplication of Sparse Matrices with Limited Space
Yuanyu Wan, Lijun Zhang

5176: Towards Faithfulness in Open Domain Table-to-Text Generation from an Entity-Centric View
Tianyu Liu, Xin Zheng, Baobao Chang, Zhifang Sui

5178: Parameterized Complexity of Small Decision Tree Learning
Sebastian Ordyniak, Stefan Szeider

5186: Attention-Based Multi-Level Fusion Network for Light Field Depth Estimation
Jiaxin Chen, Shuo Zhang, Youfang Lin

5192: Time Series Anomaly Detection with Multiresolution Ensemble Decoding
Lifeng Shen, Zhongzhong Yu, Qianli Ma, James Tin-Yau Kwok

5200: Projection-Free Online Learning in Dynamic Environments
Yuanyu Wan, Bo Xue, Lijun Zhang

5202: Majority Opinion Diffusion in Social Networks: An Adversarial Approach
Ahad N. Zehmakan

5210: MARTA: Leveraging Human Rationales for Explainable Text Classification
Ines Arous, Ljiljana Dolamic, Akansha Bhardwaj, Jie Yang, Giuseppe Cuccu, Philippe Cudre-Mauroux

5219: Constraint Logic Programming for Real-World Test Laboratory Scheduling
Tobias Geibinger, Florian Mischek, Nysret Musliu

5220: Projection-Free Online Learning over Strongly Convex Sets
Yuanyu Wan, Lijun Zhang

5230: Faster Stackelberg Planning via Symbolic Search and Information Sharing
Alvaro Torralba, Patrick Speicher, Robert Künnemann, Marcel Steinmetz, Joerg Hoffmann

5238: GraphMSE: Efficient Meta-Path Selection in Semantically Aligned Feature Space for Graph
Neural Networks
Yi Li, Yilun Jin, Guojie Song, Zihao Zhu, Chuan Shi, Yiming Wang

5245: ECG ODE-GAN: Learning Ordinary Differential Equations of ECG Dynamics via Generative
Adversarial Learning
Tomer Golany, Kira Radinsky, Daniel Freedman

5256: Infinite-Dimensional Fisher Markets: Equilibrium, Duality and Optimization
Yuan Gao, Christian Kroer

5262: Noninvasive Self-Attention for Side Information Fusion in Sequential Recommendation
Chang Liu, Xiaoguang Li, Guohao Cai, Zhenhua Dong, Lifeng Shang, Hong Zhu

5266: Augmented Experiment in Material Engineering Using Machine Learning
Aomar Osmani, Massinissa Hamidi, Salah Bouhouche

5277: Joint-Label Learning by Dual Augmentation for Time Series Classification
Qianli Ma, Zhenjing Zheng, Jiawei Zheng, Sen Li, Wanqing Zhuang, Garrison Cottrell

5278: Improving Maximum k-plex Solver via Second-Order Reduction and Graph Color Bounding
Yi Zhou, Shan Hu, Mingyu Xiao, Zhang-Hua Fu

5282: Human-Level Interpretable Learning for Aspect-Based Sentiment Analysis
Rohan K Yadav, Lei Jiao, Ole-Christoffer Granmo, Morten Goodwin

5284: GLIB: Efficient Exploration for Relational Model-Based Reinforcement Learning via Goal-Literal Babbling
Rohan Chitnis, Tom Silver, Joshua Tenenbaum, Leslie Kaelbling, Tomas Lozano-Perez

5287: Multi-Scale Spatial Temporal Graph Convolutional Network for Skeleton-Based Action Recognition
Zhan Chen, Sicheng Li, Bing Yang, Qinghan Li, Hong Liu

5292: Learning to Stop: Dynamic Simulation Monte-Carlo Tree Search
Li Cheng Lan, Cho-Jui Hsieh, Ti-Rong Wu, I-Chen Wu

5296: A Graph Reasoning Network for Multi-Turn Response Selection via Customized Pre-Training
Yongkang Liu, Shi Feng, Daling Wang, Kaisong Song, Ren Feiliang, Yifei Zhang

5298: Increasing Iterate Averaging for Solving Saddle-Point Problems
Yuan Gao, Christian Kroer, Donald Goldfarb

5303: Provably Good Solutions to the Knapsack Problem via Neural Networks of Bounded Size
Christoph Hertrich, Martin Skutella

5309: Provably Secure Federated Learning against Malicious Clients
Xiaoyu Cao, Jinyuan Jia, Neil Zhenqiang Gong

5320: WCSAC: Worst-Case Soft Actor Critic for Safety-Constrained Reinforcement Learning
Qisong Yang, Thiago D. Simão, Simon H Tindemans, Matthijs T. J. Spaan

5322: A Recipe for Global Convergence Guarantee in Deep Neural Networks
Kenji Kawaguchi, Qingyun Sun

5323: Mind-the-Gap! Unsupervised Domain Adaptation for Text-Video Retrieval
Qingchao Chen, Yang Liu, Samuel Albanie

5328: Modeling the Momentum Spillover Effect for Stock Prediction via Attribute-Driven Graph Attention Networks
Rui Cheng, Qing Li

5334: Queue-Learning: A Reinforcement Learning Approach for Providing Quality of Service
Majid Raeis, Ali Tizghadam, Alberto Leon-Garcia

5338: Learning Compositional Sparse Gaussian Processes with a Shrinkage Prior
Anh Tong, Toan M Tran, Kim Juhyeong, Hung Bui, Jaesik Choi

5340: Deep Event Stereo Leveraged by Event-to-Image Translation
Soikat Hasan Ahmed, Hae Woong Jang, S M Nadim Uddin, Yong Ju Jung

5353: A Joint Training Dual-MRC Framework for Aspect Based Sentiment Analysis
Yue Mao, Yi Shen, Chao Yu, LongJun Cai

5357: Dynamic Graph Representation Learning for Video Dialog via Multi-Modal Shuffled Transformers
Shijie Geng, Peng Gao, Moitreya Chatterjee, Chiori Hori, Jonathan LeRoux, Yongfeng Zhang, Hongsheng Li, Anoop Cherian

5363: Planning with Learned Object Importance in Large Problem Instances Using Graph Neural Networks
Tom Silver, Rohan Chitnis, Aidan Curtis, Joshua Tenenbaum, Tomas Lozano-Perez, Leslie Kaelbling

5365: Knowledge-Enhanced Top-K Recommendation in Poincaré Ball
Chen Ma, Liheng Ma, Yingxue Zhang, Haolun Wu, Xue Liu, Mark Coates

5368: On Fair Division under Heterogeneous Matroid Constraints
Amitay Dror, Michal Feldman, Erel Segal-Halevi

5369: ROSITA: Refined BERT Compression with Integrated Techniques
Yuanxin Liu, Zheng Lin, Fengcheng Yuan

5374: Raven's Progressive Matrices Completion with Latent Gaussian Process Priors
Fan Shi, Bin Li, Xiangyang Xue

5390: Satisfiability and Algorithms for Non-Uniform Random k-SAT
Andrei Bulatov, Oleksii Omelchenko

5401: Achieving Proportionality up to the Maximin Item with Indivisible Goods
Artem Baklanov, Pranav Garimidi, Vasilis Gkatzelis, Daniel R Schoepflin

5410: Tripartite Collaborative Filtering with Observability and Selection for Debiasing Rating Estimation on Missing-Not-at-Random Data
Qi Zhang, Longbing Cao, Chongyang Shi, Liang Hu

5413: Variational Fair Clustering
Imtiaz Masud Ziko, Jing Yuan, Eric Granger, Ismail Ben Ayed

5417: Learning an Effective Context-Response Matching Model with Self-Supervised Tasks for Retrieval-Based Dialogues
Ruijian Xu, Chongyang Tao, Daxin Jiang, Xueliang Zhao, Dongyan Zhao, Rui Yan

5421: AnchorFace: An Anchor-Based Facial Landmark Detector across Large Poses
Zixuan Xu, Banghuai Li, Ye Yuan, Miao Geng

5436: Right for Better Reasons: Training Differentiable Models by Constraining their Influence Function
Xiaoting Shao, Arseny Skryagin, Patrick Schramowski, Wolfgang Stammer, Kristian Kersting

5439: Nutri-Bullets: Summarizing Health Studies by Composing Segments
Darsh J Shah, Lili Yu, Tao Lei, Dr.Regina Barzilay

5454: CrossNER: Evaluating Cross-Domain Named Entity Recognition
Zihan Liu, Yan Xu, Tiezheng Yu, Wenliang Dai, Ziwei Ji, Samuel Cahyawijaya, Andrea Madotto, Pascale Fung

5461: Programmatic Strategies for Real-Time Strategy Games
Julian Mariño, Rubens Moraes, Tassiana Oliveira, Claudio Toledo, Levi H. S. Lelis

5472: Multi-Scale Games: Representing and Solving Games on Networks with Group Structure
Kun Jin, Yevgeniy Vorobeychik, Mingyan Liu

5474: Improved Knowledge Modeling and Its Use for Signaling in Multi-Agent Planning with Partial Observability
Shashank Shekhar, Ronen Brafman, Guy Shani

5476: *-CFQ: Analyzing the Scalability of Machine Learning on a Compositional Task
Dmitry Tsarkov, Tibor Tihon, Nathan Scales, Nikola Momchev, Danila Sinopalnikov, Nathanael Schärli

5487: Responsibility Attribution in Parameterized Markovian Models
Christel Baier, Florian Funke, Rupak Majumdar

5501: Relational Classification of Biological Cells in Microscopy Images
Ping Liu, Mustafa Bilgic

5502: Fully Exploiting Cascade Graphs for Real-Time Forwarding Prediction
Xiangyun Tang, Dongliang Liao, Weijie Huang, Liehuang Zhu, Meng Shen, Jin Xu

5505: Complete Closed Time Intervals-Related Patterns Mining
Omer David Harel, Robert Moskovitch

5518: Deep Conservation: A Latent-Dynamics Model for Exact Satisfaction of Physical Conservation Laws
Kookjin Lee, Kevin Carlberg

5535: Theoretically Principled Deep Rl Acceleration via Nearest Neighbor Function Approximation
Junhong Shen, Lin Yang

5542: Condorcet Relaxation in Spatial Voting
Omrit Filtser, Arnold Filtser

5543: Generating Natural Language Attacks in a Hard Label Black Box Setting
Rishabh Maheshwary, Saket Maheshwary, Vikram Pudi

5546: Improving Sample Efficiency in Model-Free Reinforcement Learning from Images
Denis Yarats, Amy Zhang, Ilya Kostrikov, Brandon Amos, Joelle Pineau, Rob Fergus

5551: Neural Architecture Search as Sparse Supernet
Yan Wu, Aoming Liu, Zhiwu Huang, Siwei Zhang, Luc Van Gool

5571: Modeling the Probabilistic Distribution of Unlabeled Data for One-Shot Medical Image Segmentation
Yuhang Ding, Xin Yu, Yi Yang

5574: Local Differential Privacy for Bayesian Optimization
Xingyu Zhou, Jian Tan

5593: Communication-Efficient Projection-Free Algorithm for Nonconvex Constrained Learning Models
Wenhan Xian, Feihu Huang, Heng Huang

5608: Cutting to the Core of Pseudo-Boolean Optimization: Combining Core-Guided Search with Cutting Planes Reasoning
Jo Devriendt, Stephan Gocht, Emir Demirović, Peter Stuckey, Jakob Nordström

5611: Scalable Graph Networks for Particle Simulations
Karolis Martinkus, Aurelien Lucchi, Nathanaël Perraudin

5617: Efficient On-Chip Learning for Optical Neural Networks through Power-Aware Sparse Zeroth-Order Optimization
Jiaqi Gu, Chenghao Feng, Zheng Zhao, Zhoufeng Ying, Ray T Chen, David Z Pan

5618: Learning Cycle-Consistent Cooperative Networks via Alternating MCMC Teaching for Unsupervised Cross-Domain Translation
Jianwen Xie, Zilong Zheng, Xiaolin Fang, Song-Chun Zhu, Ying Nian Wu

5620: Knowledge-Base Degrees of Inconsistency: Complexity and Counting
Johannes K Fichte, Markus Hecher, Arne Meier

5623: An Analysis of Approval-Based Committee Rules for 2D-Euclidean Elections
Michał T Godziszewski, Paweł Batko, Piotr Skowron, Piotr Faliszewski

5637: Mercer Features for Efficient Combinatorial Bayesian Optimization
Aryan Deshwal, Syrine Belakaria, Janardhan Rao Doppa

5638: A Market-Inspired Bidding Scheme for Peer Review Paper Assignment
Reshef Meir, Jerome Lang, Julien Lesca, Nicholas Mattei, Natan Kaminsky

5641: Explaining a Black-Box by Using a Deep Variational information Bottleneck Approach
Seojin Bang, Pengtao Xie, Heewook Lee, Wei Wu, Eric Xing

5654: Out-of-Town Recommendation with Travel Intention Modeling
Haoran Xin, Xinjiang Lu, Tong Xu, Hao Liu, Jingjing Gu, Dejing Dou, Hui Xiong

5657: A Sample-Efficient Algorithm for Episodic Finite-Horizon MDP with Constraints
Krishna C Kalagarla, Rahul Jain, Pierluigi Nuzzo

5668: Learning Energy-Based Model with Variational Auto-Encoder as Amortized Sampler
Jianwen Xie, Zilong Zheng, Ping Li

5674: High-Confidence Off-Policy (or Counterfactual) Variance Estimation
Yash Chandak, Shiv Shankar, Philip Thomas

5676: Unsupervised Abstractive Dialogue Summarization for Tete-a-Tetes
Xinyuan Zhang, Ruiyi Zhang, Manzil Zaheer, Amr Ahmed

5677: Self-Progressing Robust Training
Minhao Cheng, Pin-Yu Chen, Sijia Liu, Shiyu Chang, Cho-Jui Hsieh, Payel Das

5678: Preferred Explanations for Ontology-Mediated Queries under Existential Rules
Ismail Ilkan Ceylan, Thomas Lukasiewicz, Enrico Malizia, Cristian Molinaro, Andrius Vaicenavicius

5681: Learning Contextual Representations for Semantic Parsing with Generation-Augmented Pre-Training
Peng Shi, Patrick Ng, Zhiguo Wang, Henghui Zhu, Alexander Hanbo Li, Jun Wang, Cicero Nogueira dos Santos, Bing Xiang

5693: Market-Based Explanations of Collective Decisions
Dominik Peters, Grzegorz Pierczyński, Nisarg Shah, Piotr Skowron

5694: Decentralised Learning from Independent Multi-Domain Labels for Person Re-Identification

Guile Wu, Shaogang Gong

5695: Saturated Post-Hoc Optimization for Classical Planning
Jendrik Seipp, Thomas Keller, Malte Helmert

5696: Quantum Cognitively Motivated Decision Fusion for Video Sentiment Analysis
Dimitris Gkoumas, Qiuchi Li, Shahram Dehdashti, Massimo Melucci, Yijun Yu, Dawei Song

5701: Exacerbating Algorithmic Bias through Fairness Attacks
Ninareh Mehrabi, Muhammad Naveed, Fred Morstatter, Aram Galstyan

5711: On the Adequacy of Untuned Warmup for Adaptive Optimization
Jerry Ma, Denis Yarats

5712: Resilient Multi-Agent Reinforcement Learning with Adversarial Value Decomposition
Thomy Phan, Lenz Belzner, Thomas Gabor, Andreas Sedlmeier, Fabian Ritz, Claudia Linnhoff-Popien

5716: Improving Adversarial Robustness via Probabilistically Compact Loss with Logit Constraints
Xin Li, Xiangrui Li, Deng Pan, Dongxiao Zhu

5719: Automated Storytelling via Causal, Commonsense Plot Ordering
Prithviraj V Ammanabrolu, Wesley Cheung, William D Broniec, Mark Riedl

5724: ESCAPED: Efficient Secure and Private Dot Product Framework for Kernel-Based Machine Learning Algorithms with Applications in Healthcare
Ali Burak Ünal, Mete Akgün, Nico Pfeifer

5725: Deep Probabilistic Canonical Correlation Analysis
Mahdi Karami, Dale Schuurmans

5737: An Enhanced Advising Model in Teacher-Student Framework Using State Categorization
Daksh Anand, Vaibhav Gupta, Praveen Paruchuri, Balaraman Ravindran

5738: Automated Mechanism Design for Classification with Partial Verification
Hanrui Zhang, Yu Cheng, Vincent Conitzer

5755: A Unified Taylor Framework for Revisiting Attribution Methods
Huiqi Deng, Na Zou, Mengnan Du, Weifu Chen, Guocan Feng, Xia Hu

5761: Learning Accurate and Interpretable Decision Rule Sets from Neural Networks
Litao Qiao, Weijia Wang, Bill Lin

5767: How RL Agents Behave When Their Actions Are Modified
Eric D Langlois, Tom Everitt

5771: Almost Linear Time Density Level Set Estimation via DBSCAN
Hossein Esfandiari, Vahab Mirrokni, Peilin Zhong

5772: Are Adversarial Examples Created Equal? A Learnable Weighted Minimax Risk for Robustness under Non-Uniform Attacks
Huimin Zeng, Chen Zhu, Tom Goldstein, Furong Huang

5774: Relation-Aware Graph Attention Model with Adaptive Self-Adversarial Training
Xiao Qin, Nasrullah Sheikh, Berthold Reinwald, Lingfei Wu

5790: Learning by Fixing: Solving Math Word Problems with Weak Supervision
Yining Hong, Qing Li, Daniel Ciao, Siyuan Huang, Song-Chun Zhu

5797: Accelerating Continuous Normalizing Flow with Trajectory Polynomial Regularization
Han-Hsien Huang, Mi-Yen Yeh

5802: Personalized Cross-Silo Federated Learning on Non-IID Data
Yutao Huang, Lingyang Chu, Zirui Zhou, Lanjun Wang, Jiangchuan Liu, Jian Pei, Yong Zhang

5804: Fair and Efficient Online Allocations with Normalized Valuations
Xizhi Tan, Vasilis Gkatzelis, Alexandros Psomas

5807: Group Fairness by Probabilistic Modeling with Latent Fair Decisions
YooJung Choi, Meihua Dang, Guy Van den Broeck

5811: Improved Worst-Case Regret Bounds for Randomized Least-Squares Value Iteration
Priyank Agrawal, Jinglin Chen, Nan Jiang

5824: Incentive-Aware PAC Learning
Hanrui Zhang, Vincent Conitzer

5830: Learning Intuitive Physics with Multimodal Generative Models
Sahand Rezaei-Shoshtari, Francois R Hogan, Michael Jenkin, David Meger, Gregory Dudek

5835: Holistic Multi-View Building Analysis in the Wild with Projection Pooling
Zbigniew Bogdan Wojna, Krzysztof Maziarz, Lukasz Jocz, Robert Paluba, Robert Kozikowski, Iason Kokkinos

5837: Asking the Right Questions: Learning Interpretable Action Models through Query Answering
Pulkit Verma, Shashank Rao Marpally, Siddharth Srivastava

5847: Model-Sharing Games: Analyzing Federated Learning under Voluntary Participation
Kathleen Donahue, Jon Kleinberg

5870: Variational Disentanglement for Rare Event Modeling
Zidi Xiu, Chenyang Tao, Michael Gao, Connor Davis, Benjamin Goldstein, Ricardo Henao

5889: Data-Free Knowledge Distillation with Soft Targeted Transfer Set Synthesis
Zi Wang

5893: Fast and Scalable Adversarial Training of Kernel SVM via Doubly Stochastic Gradients
Huimin Wu, Zhengmian Hu, Bin Gu

5906: Domain Adaptation in Reinforcement Learning via Latent Unified State Representation
Jinwei Xing, Takashi Nagata, Kexin Chen, Xinyun Zou, Emre Neftci, Jeffrey Prof. Krichmar

5908: Order Regularization on Ordinal Loss for Head Pose, Age and Gaze Estimation
Hui Zhang, Tianchu Guo, Jae-Joon Han, ByungIn Yoo, Yongchao Liu, Youngjun Kwak

5915: Testing Independence between Linear Combinations for Causal Discovery
Hao Zhang, Kun Zhang, Shuigeng Zhou, Jihong Guan, Ji Zhang

5918: Efficient Querying for Cooperative Probabilistic Commitments
Qi Zhang, Edmund Durfee, Satinder Singh

5920: Bidirectional RNN Based Few Shot Learning for 3D Medical Image Segmentation
Soopil Kim, Sion An, Philip Chikontwe, Sanghyun Park

5922: Task Cooperation for Semi-Supervised Few-Shot Learning
Han-Jia Ye, Xin-Chun Li, De-Chuan Zhan

5923: Learning To Sit: Synthesizing Human-Chair Interactions via Hierarchical Control
Yu-Wei Chao, Jimei Yang, Weifeng Chen, Jia Deng

5929: Online Optimal Control with Affine Constraints
Yingying Li, Subhro Das, Na Li

5930: Uncertainty-Aware Policy Optimization: A Robust, Adaptive Trust Region Approach
James Queeney, Ioannis Paschalidis, Christos G. Cassandras

5935: Residual Shuffle-Exchange Networks for Fast Processing of Long Sequences
Andis Draguns, Emīls Ozoliņš, Agris Šostaks, Matīss Apinis, Karlis Freivalds

5937: Multidimensional Uncertainty-Aware Evidential Neural Networks
Yibo Hu, Yuzhe Ou, Xujiang Zhao, Jin-Hee Cho, Feng Chen

5941: Robust Contextual Bandits via Bootstrapping
Qiao Tang, Hong Xie, Yunni Xia, Jia Lee, Qingsheng Zhu

5948: Reinforced Imitative Graph Representation Learning for Mobile User Profiling: An Adversarial Training Perspective
Dongjie Wang, Pengyang Wang, Kunpeng Liu, Yuanchun Zhou, Charles E Hughes, Yanjie Fu

5963: Winning Lottery Tickets in Deep Generative Models
Neha Mukund Kalibhat, Yogesh Balaji, Soheil Feizi

5966: Learning Flexibly Distributional Representation for Low-Quality 3D Face Recognition
Zihui Zhang, Cuican Yu, Shuang Xu, HUIBIN LI

5970: Learning to Recommend from Sparse Data via Generative User Feedback
Wenlin Wang

5971: Deep Recurrent Belief Propagation Network for POMDPs
Yuhui Wang, Xiaoyang Tan

5994: Strategy and Benchmark for Converting Deep Q-Networks to Event-Driven Spiking Neural Networks
Weihao Tan, Devdhar Patel, Robert Kozma

5995: Synchronous Dynamical Systems on Directed Acyclic Graphs: Complexity and Algorithms
Daniel J Rosenkrantz, Madhav Marathe, S S Ravi, Richard Stearns

6001: Topology-Aware Correlations between Relations for Inductive Link Prediction in Knowledge Graphs
Jiajun Chen, Huarui He, Feng Wu, Jie Wang

6008: Automated Symbolic Law Discovery: A Computer Vision Approach
Hengrui Xing, Ansaf Salleb Aouissi, Nakul Verma

6011: Interactive Speech and Noise Modeling for Speech Enhancement
Chengyu Zheng, Xiulian Peng, Yuan Zhang, Sriram Srinivasan, Yan Lu

6013: DART: Adaptive Accept Reject Algorithm for Non-Linear Combinatorial Bandits
Mridul Agarwal, Vaneet Aggarwal, Abhishek Kumar Umrawal, Chris Quinn

6019: IA-GM: A Deep Bidirectional Learning Method for Graph Matching
Kaixuan Zhao, Shikui Tu, Lei Xu

6027: Research Reproducibility as a Survival Analysis
Edward Raff

6031: Inverse Reinforcement Learning from Like-Minded Teachers
Ritesh Noothigattu, Tom Yan, Ariel D Procaccia

6033: Neighborhood Consensus Networks for Unsupervised Multi-View Outlier Detection
Li Cheng, Yijie Wang, Xinwang Liu

6049: FontRL: Chinese Font Synthesis via Deep Reinforcement Learning
Yitian Liu, Zhouhui Lian

6067: Enhancing Audio-Visual Association with Self-Supervised Curriculum Learning
Jingran Zhang, Xing Xu, Fumin Shen, Huimin Lu, Xin Liu, Heng Tao Shen

6070: Coordination between Individual Agents in Multi-Agent Reinforcement Learning
Yang Zhang, Qingyu Yang, Dou An, Chengwei Zhang

6072: CHEF: Cross-Modal Hierarchical Embeddings for Food Domain Retrieval
Hai X Pham, Ricardo Guerrero , Vladimir Pavlovic, Jiatong Li

6079: Towards Robust Visual information Extraction in Real World: New Dataset and Novel Solution
Jiapeng Wang, Chongyu Liu, Lianwen Jin, Guozhi Tang, Jiaxin Zhang, Shuaitao Zhang, Qianying Wang, Yaqiang Wu, Mingxiang Cai

6087: Classification with Few Tests through Self-Selection
Hanrui Zhang, Yu Cheng, Vincent Conitzer

6098: Semantic MapNet: Building Allocentric Semanticmaps and Representations from Egocentric Views
Vincent Cartillier, Zhile Ren, Neha Jain, Stefan Lee, Irfan Essa, Dhruv Batra

6112: Extreme k-Center Clustering
MohammadHossein Bateni, Hossein Esfandiari, Manuela Fischer, Vahab Mirrokni

6121: Fair and Efficient Allocations under Subadditive Valuations
Bhaskar R Chaudhury, Jugal Garg, Ruta Mehta

6122: Fair and Efficient Allocations under Lexicographic Preferences
Hadi Hosseini, Sujoy Sikdar, Rohit Vaish, Lirong Xia

6128: Deductive Learning for Weakly-Supervised 3D Human Pose Estimation via Uncalibrated Cameras
Xipeng Chen, Pengxu Wei, Liang Lin

6155: Tracking Disease Outbreaks from Sparse Data with Bayesian Inference
Bryan Wilder, Michael Mina, Milind Tambe

6159: Transfer Learning for Efficient Iterative Safety Validation
Anthony Corso, Mykel Kochenderfer

6162: ADAHESSIAN: An Adaptive Second Order Optimizer for Machine Learning
Zhewei Yao, Amir Gholami, Sheng Shen, Mustafa Mustafa, Kurt Keutzer, Michael Mahoney

6180: RNA Secondary Structure Representation Network for RNA-Proteins Binding Prediction
Liu Ziyi, Fulin Luo, Bo Du

6199: Making the Relation Matters: Relation of Relation Learning Network for Sentence Semantic Matching
Kun Zhang, Le Wu, Guangyi Lv, Meng Wang, Enhong Chen, Shulan Ruan

6207: Dual Adversarial Graph Neural Networks for Multi-Label Cross-Modal Retrieval
Shengsheng Qian, Dizhan Xue, Huaiwen Zhang, Quan Fang, Changsheng Xu

6208: ERNIE-ViL: Knowledge Enhanced Vision-Language Representations through Scene Graphs
Fei Yu, Jiji Tang, Weichong Yin, Yu Sun, Hao Tian, Hua Wu, Haifeng Wang

6211: Constrained Risk-Averse Markov Decision Processes
Mohamadreza Ahmadi, Ugo Rosolia, Michel Ingham, Richard M Murray, Aaron Ames

6218: Learning Interpretable Models for Couple Networks under Domain Constraints
Hongyuan You, Sikun Lin, Ambuj Singh

6224: A Hybrid Probabilistic Approach for Table Understanding
Kexuan Sun, Harsha Rayudu, Jay Pujara

6237: Deep Wasserstein Graph Discriminant Learning for Graph Classification
Tong Zhang, Yun Wang, Zhen Cui, Chuanwei Zhou, Baoliang Cui, Haikuan Huang, Jian Yang

6256: UNIpoint: Universally Approximating Point Processes Intensities
Alexander Soen, Lexing Xie, Alexander Mathews, Daniel Grixti-Cheng

6267: Boundary Proposal Network for Two-Stage Natural Language Video Localization
Shaoning Xiao, Long Chen, Songyang Zhang, Wei Ji, Jian Shao, Lu Ye, Jun Xiao

6269: A Bidirectional Multi-Paragraph Reading Model for Zero-Shot Entity Linking
Hongyin Tang, Xingwu Sun, Beihong Jin, Fuzheng Zhang

6278: Discovering New Intents with Deep Aligned Clustering
Hanlei Zhang, Hua Xu, Ting-En Lin, Lv Rui

6281: Continual Learning by Using Information of Each Class Holistically
Wenpeng Hu, Qi Qin, Mengyu Wang, Jinwen Ma, Bing Liu

6288: A Supervised Multi-Head Self-Attention Network for Nested Named Entity Recognition

Yongxiu Xu, Heyan Huang, Chong Feng, Yue Hu

6293: StrokeGAN: Reducing Mode Collapse in Chinese Font Generation via Stroke Encoding
Jinshan Zeng, Qi Chen, Yunxin Liu, Mingwen Wang, Yuan Yao

6302: Spatial-Temporal Fusion Graph Neural Networks for Traffic Flow Forecasting
Mengzhang Li, Zhanxing Zhu

6310: A Deep Reinforcement Learning Approach to First-Order Logic Theorem Proving
Maxwell Crouse, Ibrahim Abdelaziz, Bassem Makni, Spencer Whitehead, Cristina Cornelio, Pavan Kapanipathi, Kavitha Srinivas, Veronika Thost, Michael Witbrock, Achille Fokoue

6311: Counterfactual Fairness with Disentangled Causal Effect Variational Autoencoder
Hyemi Kim, Seungjae Shin, JoonHo Jang, Kyungwoo Song, Weonyoung Joo, Wanmo Kang, Il-Chul Moon

6317: PULNS: Positive-Unlabeled Learning with Effective Negative Sample Selector
Chuan Luo, Pu Zhao, Chen Chen, Bo Qiao, Chao Du, Hongyu Zhang, Wei Wu, Shaowei Cai, Bing He, Saravanakumar Rajmohan, Qingwei Lin

6323: Visual Relation Detection Using Hybrid Analogical Learning
Kezhen Chen, Ken Forbus

6324: Leveraging Table Content for Zero-Shot Text-to-SQL with Meta-Learning
Yongrui Chen, Xinnan Guo, Chaojie Wang, Jian Qiu, Guilin Qi, Meng Wang, Huiying Li

6327: Unsupervised Domain Adaptation for Semantic Segmentation by Content Transfer
Suhyeon Lee, Junhyuk Hyun, Hongje Seong, Euntai Kim

6343: The Maximin Support Method: An Extension of the D'Hondt Method to Approval-Based Multiwinner Elections
Luis Sanchez-Fernandez, Norberto Fernández García, Jesús Fisteus, Markus Brill

6347: Neural Analogical Matching
Maxwell Crouse, Constantine Nakos, Ibrahim Abdelaziz, Ken Forbus

6350: Unanswerable Question Correction in Question Answering over Personal Knowledge Base
An-Zi Yen, Hen-Hsen Huang, Hsin-Hsi Chen

6351: Hierarchical Negative Binomial Factorization for Recommender Systems on Implicit Feedback
Li-Yen Kuo, Ming-Syan Chen

6357: GLISTER: Generalization Based Data Subset Selection for Efficient and Robust Learning
Krishnateja Killamsetty, Durga S, Ganesh Ramakrishnan, Rishabh Iyer

6366: Improved Penalty Method via Doubly Stochastic Gradients for Bilevel Hyperparameter Optimization
Wanli Shi, Bin Gu

6374: Improving Continuous-Time Conflict Based Search
Anton Andreychuk, Konstantin Yakovlev, Eli Boyarski, Roni Stern

6381: Wasserstein Distributionally Robust Inverse Multiobjective Optimization
Chaosheng Dong, Bo Zeng

6393: Active Bayesian Assessment of Black-Box Classifiers
Disi Ji, Robert L Logan, Padhraic Smyth, Mark Steyvers

6406: SCRUPLES: A Corpus of Community Ethical Judgments on 32,000 Real-Life Anecdotes
Nicholas Lourie, Ronan Le Bras, Yejin Choi

6415: UNICORN on RAINBOW: A Universal Commonsense Reasoning Model on a New Multitask Benchmark
Nicholas Lourie, Ronan Le Bras, Chandra Bhagavatula, Yejin Choi

6416: Graph-Based Tri-Attention Network for Answer Ranking in CQA
Wei Zhang, Zeyuan Chen, Chao Dong, Wen Wang, Hongyuan Zha, Jianyong Wang

6418: Treewidth-Aware Complexity in ASP: Not All Positive Cycles Are Equally Hard
Markus Hecher, Jorge Fandinno

6428: Reinforcement Learning Based Multi-Agent Resilient Control: From Deep Neural Networks to an Adaptive Law
Jian Hou, Fangyuan Wang, Lili Wang, Zhiyong Chen

6429: Patch-Wise Attention Network for Monocular Depth Estimation
Sihaeng Lee, Janghyeon Lee, Byungju Kim, Eojindl Yi, Junmo Kim

6437: Hierarchically and Cooperatively Learning Traffic Signal Control
Bingyu Xu, Yaowei Wang, Zhaozhi Wang, Huizhu Jia, Zongqing Lu

6446: Computing an Efficient Exploration Basis for Learning with Univariate Polynomial Features
Chaitanya Amballa, Manu Kumar Gupta, Sanjay P. P. Bhat

6452: To Choose or To Fuse? Scale Selection for Crowd Counting
Qingyu Song, Changan Wang, Yabiao Wang, Ying Tai, Chengjie Wang, Jilin Li, Jian Wu, Jiayi Ma

6462: Embodied Visual Active Learning for Semantic Segmentation
David Nilsson, Aleksis Pirinen, Erik Gärtner, Cristian Sminchisescu

6469: Temporal Pyramid Network for Pedestrian Trajectory Prediction with Multi-Supervision
Rongqin Liang, Yuanman Li, Xia Li, Yi Tang, Jiantao Zhou, Wenbin Zou

6471: Linearly Replaceable Filters for Deep Network Channel Pruning
Donggyu Joo, Eojindl Yi, Sung Hyun Baek, Junmo Kim

6476: Knowledge Refinery: Learning from Decoupled Label
Qianggang Ding, Sifan Wu, Tao Dai, Hao Sun, Jiadong Guo, Zhang-Hua Fu, Shutao Xia

6489: Interpretable Actions: Controlling Experts with Understandable Commands
Shumeet Baluja, David Marwood, Michele Covell

6491: Shuffling Recurrent Neural Networks
Michael Rotman, Lior Wolf

6493: Simpson's Bias in NLP Training
Fei Yuan, Longtu Zhang, Huang Bojun, Yaobo Liang

6502: Guiding Non-Autoregressive Neural Machine Translation Decoding with Reordering Information
Qiu Ran, Yankai Lin, Peng Li, Jie Zhou

6503: Scheduled Sampling in Vision-Language Pretraining with Decoupled Encoder-Decoder Network
Yehao Li, Yingwei Pan, Ting Yao, Jingwen Chen, Tao Mei

6512: Capturing Uncertainty in Unsupervised GPS Trajectory Segmentation Using Bayesian Deep Learning
Christos Markos, James Yu, Richard Yi Da Xu

6514: Synchronous Interactive Decoding for Multilingual Neural Machine Translation
Hao He, Qian Wang, Zhipeng Yu, Yang Zhao, Jiajun Zhang, Chengqing Zong

6531: Unchain the Search Space with Hierarchical Differentiable Architecture Search
Guanting Liu, Yujie Zhong, Sheng Guo, Matthew R. Scott, Weilin Huang

6544: MERL: Multimodal Event Representation Learning in Heterogeneous Embedding Spaces
Linhai Zhang, Deyu Zhou, Yulan He, Zeng Yang

6557: Learning Term Embeddings for Lexical Taxonomies
Jingping Liu, Menghui Wang, Chao Wang, Jiaqing Liang, Lihan Chen, Haiyun Jiang, Yanghua Xiao, Yunwen Chen

6577: HopRetriever: Retrieve Hops over Wikipedia to Answer Complex Questions

Shaobo Li, Xiaoguang Li, Lifeng Shang, Xin Jiang, Qun Liu, Chengjie Sun, Zhenzhou Ji, Bingquan Liu

6610: Learning Game-Theoretic Models of Multiagent Trajectories Using Implicit Layers
Philipp Geiger, Christoph-Nikolas Straehle

6611: THOR, Trace-Based Hardware-Driven Layer-Oriented Natural Gradient Descent Computation
Mengyun Chen, Kaixin Gao, Xiaolei Liu, Zidong Wang, Ningxi Ni, Qian Zhang, Lei Chen, Chao Ding, Zhenghai Huang, Min Wang, Shuangling Wang, Fan Yu, Xinyuan Zhao, Dachuan Xu

6612: On the Optimal Efficiency of A* with Dominance Pruning
Alvaro Torralba

6617: Learning Deep Generative Models for Queuing Systems
Cesar A Ojeda, Ramses Sanchez, Kostadin Cvejoski, Bodgan Georgiev, Christian Bauckhage, Jannis Schuecker

6618: Two-Stream Convolution Augmented Transformer for Human Activity Recognition
Bing Li, Wei Cui, Wei Wang, Le Zhang, Zhenghua Chen, Min Wu

6627: Toward Realistic Virtual Try-On through Landmark Guided Shape Matching
Guoqiang Liu, Dan Song, Ruofeng Tong, Min Tang

6643: News Content Completion with Location-Aware Image Selection
Zhengkun Zhang, Jun Wang, Adam Jatowt, Zhe Sun, Shao-Ping Lu, Zhenglu Yang

6669: SongMASS: Automatic Song Writing with Pre-Training and Alignment Constraint
Zhonghao Sheng, Kaitao Song, Xu Tan, Yi Ren, Wei Ye, Shikun Zhang, Tao Qin

6672: Entity Guided Question Generation with Contextual Structure and Sequence Information Capturing
Qingbao Huang, Mingyi Fu, Linzhang Mo, Yi Cai, Jingyun Xu, Pijian Li, Qing Li, Ho-fung Leung

6681: Generalized Relation Learning with Semantic Correlation Awareness for Link Prediction
Yao Zhang, Xu Zhang, Jun Wang, Hongru Liang, Wenqiang Lei, Zhe Sun, Adam Jatowt, Zhenglu Yang

6682: A Deeper Look at the Hessian Eigenspectrum of Deep Neural Networks and Its Applications to Regularization
Adepu Ravi, Yash Khasbage, Rahul Vigneswaran K, Vineeth N Balasubramanian

6698: Towards Balanced Defect Prediction with Better information Propagation
Xianda Zheng, Yuan-Fang Li , Huan Gao, Yuncheng Hua, Guilin Qi

6700: Effective Slot Filling via Weakly-Supervised Dual-Model Learning
Jue Wang, Ke Chen, Lidan Shou, Sai Wu, Gang Chen

6716: MetaAugment: Sample-Aware Data Augmentation Policy Learning
Fengwei Zhou, Jiawei Li, Chuanlong Xie, Fei Chen, Lanqing Hong, Rui Sun, Zhenguo Li

6725: Nested Named Entity Recognition with Partially-Observed TreeCRFs
Yao Fu, Chuanqi Tan, Mosha Chen, Songfang Huang, Fei Huang

6737: RareBERT: Transformer Architecture for Rare Disease Patient Identification Using Administrative Claims
PKS Prakash, Srinivas Chilukuri, Nikhil Ranade, Shankar Viswanathan

6740: Network Satisfaction for Symmetric Relation Algebras with a Flexible Atom
Manuel Bodirsky, Simon Knäuer

6746: Do Response Selection Models Really Know What's Next? Utterance Manipulation Strategies for Multi-Turn Response Selection
Taesun Whang, Dongyub Lee, Dongsuk Oh, Chanhee Lee, Kijong Han, Dong-hun Lee, Saebyeok Lee

6758: Balanced Open Set Domain Adaptation via Centroid Alignment
Mengmeng Jing, Jingjing Li, Lei Zhu, Zhengming Ding, Ke Lu, Yang Yang

6763: Learning Monocular Depth in Dynamic Scenes via Instance-Aware Projection Consistency
Seokju Lee, Sunghoon Im, Stephen Lin, In So Kweon

6781: A Few Queries Go a Long Way: Information-Distortion Tradeoffs in Matching
Georgios Amanatidis, Georgios Birmpas, Aris Filos-Ratsikas, Alexandros Voudouris

6790: Demodalizing Face Recognition with Synthetic Samples
Zhonghua Zhai, Pengju Yang, Xiaofeng Zhang, Maji Huang, Haijing Cheng, Xuejun Yan, Chunmao Wang, Shiliang Pu

6811: Escaping Local Optima with Non-Elitist Evolutionary Algorithms
Duc-Cuong Dang, Anton Eremeev, Per Kristian Lehre

6821: Audio-Visual Localization by Synthetic Acoustic Image Generation
Valentina Sanguineti, Pietro Morerio, Alessio Del Bue, Vittorio Murino

6825: Differential Spectral Normalization (DSN) for PDE Discovery
Chi Chiu So, Tsz On Li, Chufang Wu, Siu Pang Yung

6839: Correlation-Aware Heuristic Search for Intelligent Virtual Machine Provisioning in Cloud Systems
Chuan Luo, Bo Qiao, Wenqian Xing, Xin Chen, Pu Zhao, Chao Du, Randolph Yao, Hongyu Zhang, Wei Wu, Shaowei Cai, Bing He, Saravanakumar Rajmohan, Qingwei Lin

6850: Slimmable Generative Adversarial Networks

Liang Hou, Zehuan Yuan, Lei Huang, Huawei Shen, Xueqi Cheng, Changhu Wang

6859: Towards Consumer Loan Fraud Detection: Graph Neural Networks with Role-Constrained Conditional Random Field
Bingbing Xu, Huawei Shen, Rong An, Bingjie Sun, Qi Cao, Xueqi Cheng

6867: Disposable Linear Bandits for Online Recommendations
Melda Korkut, Andrew Li

6871: Parameterized Complexity of Logic-Based Argumentation in Schaefer's Framework
Yasir Mahmood, Arne Meier, Johannes Schmidt

6872: Consistency and Finite Sample Behavior of Binary Class Probability Estimation
Alexander Mey, Marco Loog

6879: Restricted Domains of Dichotomous Preferences with Possibly Incomplete Information
Zoi Terzopoulou, Alexander Karpov, Svetlana Obraztsova

6887: Efficient Truthful Scheduling and Resource Allocation through Monitoring
Dimitris Fotakis, Piotr Krysta, Carmine Ventre

6897: Counterfactual Explanations for Oblique Decision Trees: Exact, Efficient Algorithms
Miguel A Carreira-Perpinan, Suryabhan Singh Hada

6910: Online Posted Pricing with Unknown Time-Discounted Valuations
Giulia Romano, Alberto Marchesi, Gianluca Tartaglia, Nicola Gatti

6912: Joint Air Quality and Weather Prediction Based on Multi-Adversarial Spatiotemporal Networks
Jindong Han, Hao Liu, Hengshu Zhu, Hui Xiong, Dejing Dou

6914: Fitting the Search Space of Weight-Sharing NAS with Graph Convolutional Networks
Xin Chen, Lingxi Xie, Jun Wu, Longhui Wei, Yuhui Xu, Qi Tian

6932: Improving Ensemble Robustness by Collaboratively Promoting and Demoting Adversarial Robustness
Anh Tuan Bui, Trung Le, He Zhao, Paul Montague, Olivier DeVel, Tamas Abraham, Dinh Phung

6933: Aligning Artificial Neural Networks and Ontologies Towards Explainable AI
Manuel de Sousa Ribeiro, João Leite

6937: Exploratory Machine Learning with Unknown Unknowns
Peng Zhao, Yu-Jie Zhang, Zhi-Hua Zhou

6939: Learning from History: Modeling Temporal Knowledge Graphs with Sequential Copy-Generation Networks
Cunchao Zhu, Muhao Chen, Changjun Fan, Guangquan Cheng, Yan Zhang

6941: Multi-Scale Graph Fusion for Co-Saliency Detection
Rongyao Hu, Zhenyun Deng, Xiaofeng Zhu

6950: PointINet: Point Cloud Frame Interpolation Network
Fan Lu, Guang Chen, Sanqing Qu, Zhijun Li, Yinlong Liu, Alois Knoll

6951: Community-Aware Multi-Task Transportation Demand Prediction
Hao Liu, Qiyu Wu, Fuzhen Zhuang, Xinjiang Lu, Dejing Dou, Hui Xiong

6954: More the Merrier: Towards Multi-Emotion and Intensity Controllable Response Generation
Mauajama Firdaus, Hardik Chauhan, Asif Ekbal, Pushpak Bhattacharyya

6956: Computing Plan-Length Bounds Using Lengths of Longest Paths
Mohammad Abdulaziz, Dominik Berger

6966: Pareto Optimization for Subset Selection with Dynamic Partition Matroid Constraints
Anh V Do, Frank Neumann

6977: DeepTrader: A Deep Reinforcement Learning Approach for Risk-Return Balanced Portfolio Management with Market Conditions Embedding
Zhicheng Wang, Biwei Huang, Shikui Tu, Kun Zhang, Lei Xu

6989: Going Deeper with Directly-Trained Larger Spiking Neural Networks
Hanle Zheng, Guoqi Li, Yujie Wu, Lei Deng, Yifan Hu

7014: Differentiable Inductive Logic Programming for Structured Examples
Hikaru Shindo, Masaaki Nishino, Akihiro Yamamoto

7015: Memory-Gated Recurrent Networks
Yaquan Zhang, Qi Wu, Nanbo Peng, Min Dai, Jing Zhang, Hu Wang

7017: Contrastive Self-Supervised Learning for Graph Classification
Jiaqi Zeng, Pengtao Xie

7018: Reinforcement Learning with a Disentangled Universal Value Function for Item Recommendation
Kai Wang, Zhene Zou, Qilin Deng, Jianrong Tao, Runze Wu, Changjie Fan, Liang Chen, Peng Cui

7025: Certifying Parity Reasoning Efficiently Using Pseudo-Boolean Proofs
Stephan Gocht, Jakob Nordström

7030: Nyströmformer: A Nyströmform-Based Algorithm for Approximating Self-Attention
Yunyang Xiong, Zhanpeng Zeng, Rudrasis Chakraborty, Mingxing Tan, Glenn M Fung, Yin Li, Vikas Singh

7040: Theoretical Analyses of Multi-Objective Evolutionary Algorithms on Multi-Modal Objectives
Benjamin Doerr, Weijie Zheng

7047: IQ -- Incremental Learning for Solving QSAT
Thomas L Lee, Viktor Tóth, Sean B Holden

7051: SDGNN: Learning Node Representation for Signed Directed Networks
Junjie Huang, Huawei Shen, Liang Hou, Xueqi Cheng

7052: Relaxed Clustered Hawkes Process for Student Procrastination Modeling in MOOCs
Mengfan Yao, Siqian Zhao, Shaghayegh Sahebi, Reza Feyzi Behnagh

7061: Contract Scheduling with Predictions
Spyros Angelopoulos, Shahin Kamali

7065: Filling the Gap of Utterance-Aware and Speaker-Aware Representation for Multi-Turn Dialogue
Longxiang Liu, Zhuosheng Zhang, Hai Zhao, Xi Zhou, Xiang Zhou

7071: Semantic Grouping Network for Video Captioning
Hobin Ryu, Sunghun Kang, Haeyong Kang, Chang D. Yoo

7072: Learning Complex 3D Human Self-Contact
Mihai Fieraru, Mihai Zanfir, Elisabeta Oneata, Alin-Ionut Popa, Vlad Olaru, Cristian Sminchisescu

7104: Adversarial Training Reduces Information and Improves Transferability
Matteo Terzi, Alessandro Achille, Marco Maggipinto, Gian Antonio Susto

7109: Multi-Objective Submodular Maximization by Regret Ratio Minimization with Theoretical Guarantee
Chao Feng, Chao Qian

7120: Adversarial Defense by Diversified Simultaneous Training of Deep Ensembles
Bo Huang, Zhiwei Ke, Yi Wang, Wei Wang, Linlin Shen, Feng Liu

7133: Savable but Lost Lives when ICU Is Overloaded: A Model from 733 Patients in Epicenter Wuhan, China
Tingting Dan, Yang Li, Ziwei Zhu, Xijie Chen, Wuxiu Quan, Yu Hu, Guihua Tao, Lei Zhu, Jijin Zhu, Hongmin Cai, Hanchun Wen

7140: Fused Sequential and Hierarchical Representation Model for Aspect Term Extraction

Lili Shang, Meiyun Zuo

7144: Distribution Adaptive INT8 Quantization for Training CNNs
Kang Zhao, Sida Huang, Pan Pan, Yinghan Li, Yingya Zhang, Zhenyu Gu, Yinghui Xu

7147: Online Search with Maximum Clearance
Spyros Angelopoulos, Malachi L Voss

7152: Almost Envy-Freeness, Envy-Rank, and Nash Social Welfare Matchings
Alireza Farhadi, MohammadTaghi Hajiaghai, Mohamad Latifian, Masoud Seddighin, Hadi Yami

7173: User Driven Model Adjustment via Boolean Rule Explanations
Elizabeth Daly, Massimiliano Mattetti, Oznur Alkan, Rahul Nair

7178: Consistent-Separable Feature Representation for Semantic Segmentation
Xingjian He, Jing Liu, Jun Fu, Xinxin Zhu, Jinqiao Wang, Hanqing Lu

7182: Cross-Domain Grouping and Alignment for Domain Adaptive Semantic Segmentation
Minsu Kim, Sunghun Joung, Seungryong Kim, JungIn Park, Ig-Jae Kim, Kwanghoon Sohn

7186: Explanation Consistency Training: Facilitating Consistency-Based Semi-Supervised Learning with Interpretability
Tao Han, Wei-Wei Tu, Yu-Feng Li

7194: A Graph-Based Relevance Matching Model for Ad-Hoc Retrieval
Yufeng Zhang, Jinghao Zhang, Zeyu Cui, Shu Wu, Liang Wang

7196: Self-Domain Adaptation for Face Anti-Spoofing
Jing jing Wang, Jingyi Zhang, Bian Ying, Youyi Cai, Chunmao Wang, Shiliang Pu

7200: Adaptive Gradient Methods for Constrained Convex Optimization and Variational Inequalities
Alina Ene, Huy Nguyen, Adrian Vladu

7201: SAT-Based Decision Tree Learning for Large Data Sets
Andre Schidler, Stefan Szeider

7220: Story Ending Generation with Multi-Level Graph Convolutional Networks over Dependency Trees
Qingbao Huang, Linzhang Mo, Pijian Li, Yi Cai, Qingguang Liu, Jielong Wei, Qing Li, Ho-fung Leung

7228: Coupling Macro-Sector-Micro Financial Indicators for Learning Stock Representations with Less Uncertainty
Guifeng Wang, Longbing Cao, Hongke Zhao, Qi Liu, Enhong Chen

7247: Tempered Sigmoid Activations for Deep Learning with Differential Privacy
Nicolas Papernot, Abhradeep Thakurta, Shuang Song, Steve Chien, Ulfar Erlingsson

7257: Cross-Oilfield Reservoir Classification via Multi-Scale Sensor Knowledge Transfer
Zhi Li, Zhefeng Wang, Zhicheng Wei, Xiangguang Zhou, Yijun Wang, Baoxing Huai, Qi Liu, Nicholas Jing Yuan, Renbin Gong, Enhong Chen

7260: Accelerating Neural Machine Translation with Partial Word Embedding Compression
Fan Zhang, Mei Tu, Jinyao Yan

7267: Symmetry Breaking for k-Robust Multi-Agent Path Finding
Zhe Chen, Daniel Harabor, Jiaoyang Li, Peter Stuckey

7270: Frequency Consistent Adaptation for Real World Super Resolution
Xiaozhong Ji, Guangpin Tao, Yun Cao, Ying Tai, Tong Lu, Chengjie Wang, Jilin Li, Feiyue Huang

7273: Improving the Efficiency and Effectiveness for Bert-Based Entity Resolution
Bing Li, Yukai Miao, Yaoshu Wang, Yifang Sun, Wei Wang

7281: Automatic Curriculum Learning with Over-Repetition Penalty for Dialogue Policy Learning
Yangyang Zhao, Zhenyu Wang, Zhenhua Huang

7289: Relational Boosted Bandits
Ashutosh Dilipbhai Kakadiya, Sriraam Natarajan, Balaraman Ravindran

7292: A Systematic Evaluation of Object Detection Networks for Scientific Plots
Pritha Ganguly, Nitesh S Methani, Mitesh M. Khapra, Pratyush Kumar

7297: Complex Coordinate-Based Meta-Analysis with Probabilistic Programming
Valentin Lovene, Gaston E Zanitti, Demian Wassermann

7315: DramaQA: Character-Centered Video Story Understanding with Hierarchical QA
Seongho Choi, Kyoung-Woon On, Yu-Jung Heo, Ahjeong Seo, Youwon Jang, Minsu Lee, Byoung-Tak Zhang

7321: A Unified Multi-Scenario Attacking Network for Visual Object Tracking
Xuesong Chen, Canmiao Fu, Feng Zheng, Yong Zhao, Hongsheng Li, Ping Luo, Guo-Jun Qi

7335: Selfish Creation of Social Networks
Davide Bilò, Tobias Friedrich, Pascal Lenzner, Stefanie Lowski, Anna Melnichenko

7346: Informer: Beyond Efficient Transformer for Long Sequence Time-Series Forecasting
Haoyi Zhou, Shanghang Zhang, Jieqi Peng, Shuai Zhang, Jianxin Li, Hui Xiong, Wancai Zhang

7359: PoA of Simple Auctions with Interdependent Values

Alon Eden, Michal Feldman, Inbal Talgam-Cohen, Ori Zviran

7361: Learning Prediction Intervals for Model Performance
Benjamin Elder, Matthew Arnold, Anupama Murthi, Jiri Navratil

7381: A Multivariate Complexity Analysis of the Material Consumption Scheduling Problem
Matthias Bentert, Robert Bredereck, Péter Györgyi, Andrzej Kaczmarczyk, Rolf Niedermeier

7391: Generative Semi-Supervised Learning for Multivariate Time Series Imputation
Xiaoye Miao, Yangyang Wu, Jun Wang, Yunjun Gao, Xudong Mao, Jianwei Yin

7394: Learning Model-Based Privacy Protection under Budget Constraints
Junyuan Hong, Haotao Wang, Zhangyang Wang, Jiayu Zhou

7399: Towards Efficient Selection of Activity Trajectories Based on Diversity and Coverage
Chengcheng Yang, Lisi Chen, Hao Wang, Shuo Shang

7402: Revisiting Iterative Back-Translation from the Perspective of Compositional Generalization
Yinuo Guo, Hualei Zhu, Zeqi Lin, Bei Chen, Jian-Guang Lou, Dongmei Zhang

7405: C-Watcher: A Framework for Early Detection of High-Risk Neighborhoods Ahead of COVID-19 Outbreak
Congxi Xiao, Jingbo Zhou, Jizhou Huang, Haoyi Xiong, An Zhuo, Ji Liu, Dejing Dou

7408: CMAX++ : Leveraging Experience in Planning and Execution Using Inaccurate Models
Anirudh Vemula, J. Andrew Bagnell, Maxim Likhachev

7413: Split-and-Bridge: Adaptable Class Incremental Learning within a Single Neural Network
Jong-Yeong Kim, Dong-Wan Choi

7443: Computing Quantal Stackelberg Equilibrium in Extensive-Form Games
Jakub Cerny, Viliam Lisy, Branislav Bošanský, Bo An

7475: Large Motion Video Super-Resolution with Dual Subnet and Multi-Stage Communicated Upsampling
Hongying Liu, Peng Zhao, Zhubo Ruan, Fanhua Shang, Yuanyuan Liu

7481: Symmetric Component Caching for Model Counting on Combinatorial Instances
Timothy van Bremen, Vincent Derkinderen, Shubham Sharma, Subhajit Roy, Kuldeep S Meel

7491: Modeling Heterogeneous Relations across Multiple Modes for Potential Crowd Flow Prediction
Qiang Zhou, Jingjing Gu, Xinjiang Lu, Fuzhen Zhuang, Yanchao Zhao, Qiuhong Wang, Xiao Zhang

7492: Dependency Stochastic Boolean Satisfiability: A Logical Formalism for NEXPTIME Decision Problems with Uncertainty
Nian-Ze Lee, Jie-Hong R Jiang

7498: SCAN: A Spatial Context Attentive Network for Joint Multi-Agent Intent Prediction
Jasmine Sekhon, Cody Fleming

7500: Dynamic Memory Based Attention Network for Sequential Recommendation
Qiaoyu Tan, Jianwei Zhang, Ninghao Liu, Xiao Huang, Hongxia Yang, Jingren Zhou, Xia Hu

7505: SALNet: Semi-Supervised Few-Shot Text Classification with Attention-Based Lexicon Construction
Ju-Hyoung Lee, Sang-Ki Ko, Yo-Sub Han

7520: PHASE: Physically-Grounded Abstract Social Events for Machine Social Perception
Aviv Netanyahu, Tianmin Shu, Boris Katz, Andrei Barbu, Joshua Tenenbaum

7526: AdvantageNAS: Efficient Neural Architecture Search with Credit Assignment
Rei Sato, Jun Sakuma, Youhei Akimoto

7527: The Smoothed Complexity of Computing Kemeny and Slater Rankings
Lirong Xia, Weiqiang Zheng

7531: Branch and Price for Bus Driver Scheduling with Complex Break Constraints
Lucas Kletzander, Nysret Musliu, Pascal Van Hentenryck

7535: Window Loss for Abnormal Finding Classification and Localization in X-Ray Image with Point-Base Annotation
Xinyu Zhang, Yirui Wang, Chi Tung Cheng, Le Lu, Adam P Harrison, Jing Xiao, ChienHung Liao, Shun Miao

7556: Measuring Dependence with Matrix-Based Entropy Functional
Shujian Yu, Francesco Alesiani, Xi Yu, Robert Jenssen, Jose Principe

7561: YOLObile: Real-Time Object Detection on Mobile Devices via Compression-Compilation Co-Design
Yuxuan Cai, Hongjia Li, Geng Yuan, Wei Niu, Yanyu Li, Xulong Tang, Bin Ren, Yanzhi Wang

7562: Category Dictionary Guided Unsupervised Domain Adaptation for Object Detection
Shuai Li, Jianqiang Huang, Xian-Sheng Hua, Lei Zhang

7565: Neural Utility Functions
Porter Jenkins, Ahmad Farag, Stockton Jenkins, Huaxiu Yao, Suhang Wang, Zhenhui Li

7570: Explaining Convolutional Neural Networks through Attribution-Based Input Sampling and Block-Wise Feature Aggregation
Sam Sattarzadeh, Mahesh Sudhakar, Anthony Lem, Shervin Mehryar, Konstantinos N Plataniotis, Jongseong Jang, Hyunwoo Kim, Yeonjeong Jeong, SangMin Lee, Kyunghoon Bae

7572: Towards Fully Automated Manga Translation
Ryota Hinami, Shonosuke Ishiwatari, Kazuhiko Yasuda, Yusuke Matsui

7574: Predictive Adversarial Learning from Positive and Unlabeled Data
Wenpeng Hu, Ran Le, Bing Liu, Feng Ji, Jinwen Ma, Dongyan Zhao, Rui Yan

7576: Cascade Size Distributions: Why They Matter and How To Compute Them Efficiently
Rebekka Burkholz, John Quackenbush

7616: Analogical Image Translation for Fog Generation
Rui Gong, Dengxin Dai, Yuhua Chen, Wen Li, Danda Pani Paudel, Luc Van Gool

7641: Computationally Tractable Riemannian Manifolds for Graph Embeddings
Calin C Cruceru, Gary Becigneul, Octavian Ganea

7644: Characterizing the Evasion Attackability of Multi-Label Classifiers
Zhuo Yang, Yufei Han, Xiangliang Zhang

7653: A Simple and Effective Self-Supervised Contrastive Learning Framework for Aspect Detection
Tian Shi, Liuqing Li, Ping Wang, Chandan K Reddy

7657: The Value-Improvement Path: Towards Better Representations for Reinforcement Learning
Will Dabney, Andre Barreto, Mark Rowland, Robert Dadashi, John Quan, Marc G. Bellemare, David Silver

7672: CNN Profiler on Polar Coordinate Images for Tropical Cyclone Structure Analysis
Boyo Chen, Buo-Fu Chen, Chun Min Hsiao

7673: NeuralAC: Learning Cooperation and Competition Effects for Match Outcome Prediction
Yin Gu, Qi Liu, Kai Zhang, Zhenya Huang, Runze Wu, Jianrong Tao

7677: On the PTAS for Maximin Shares in an Indivisible Mixed Manna
Rucha Kulkarni, Ruta Mehta, Setareh Taki

7681: Efficient Bayesian Network Structure Learning via Parameterized Local Search on Topological Orderings
Niels Grüttemeier, Christian Komusiewicz, Nils Morawietz

7686: Classification by Attention: Scene Graph Classification with Prior Knowledge
Sahand Sharifzadeh, Sina Moayed Baharlou, Volker Tresp

7688: Plug-and-Play Domain Adaptation for Cross-Subject EEG-Based Emotion Recognition
Liming Zhao, Xu Yan, Bao-Liang Lu

7695: Gene Regulatory Network Inference as Relaxed Graph Matching
Deborah Weighill, Marouen Ben Guebila, Camila Lopes-Ramos, Kimberly Glass, John Quackenbush, John H Platig, Rebekka Burkholz

7700: Power in Liquid Democracy
Yuzhe Zhang, Grossi Davide

7710: Norm-Based Generalisation Bounds for Deep Multi-Class Convolutional Neural Networks
Antoine Ledent, Waleed Mustafa, Yunwen Lei, Marius Kloft

7721: FixMyPose: Pose Correctional Captioning and Retrieval
Hyounghun Kim, Abhaysinh S Zala, Graham H Burri, Mohit Bansal

7722: Adaptive Verifiable Training Using Pairwise Class Similarity
Shiqi Wang, Kevin Eykholt, Taesung Lee, Jiyong Jang, Ian Molloy

7724: Fair Representations by Compression
Xavier Gitiaux, Huzefa Rangwala

7729: Differentially Private k-Means via Exponential Mechanism and Max Cover
Huy Nguyen, Anamay Chaturvedi, Eric Z Xu

7731: Proportional Representation under Single-Crossing Preferences Revisited
Andrei Costin Constantinescu, Edith Elkind

7739: CloudLSTM: A Recurrent Neural Model for Spatiotemporal Point-Cloud Stream Forecasting
Chaoyun Zhang, Marco Fiore, Iain Murray, Paul Patras

7740: We Can Explain Your Research in Layman's Terms: Towards Automating Science Journalism at Scale
Rumen R Dangovski, Michelle Shen, Dawson A Byrd, Li Jing, Desislava M Tsvetkova, Preslav Nakov, Marin Soljacic

7741: Learning Continuous High-Dimensional Models Using Mutual Information and Copula Bayesian Networks
Marvin Lasserre, Régis Lebrun, Pierre-Henri Wuillemin

7747: Unsupervised Learning of Discourse Structures Using a Tree Autoencoder
Patrick Huber, Giuseppe Carenini

7756: Robustness to Spurious Correlations in Text Classification via Automatically Generated Counterfactuals
Zhao Wang, Aron Culotta

7765: Generalization in Portfolio-Based Algorithm Selection
Maria-Florina Balcan, Tuomas Sandholm, Ellen Vitercik

7767: A Hybrid Attention Mechanism for Weakly-Supervised Temporal Action Localization
Ashraful Islam, Chengjiang Long, Richard Radke

7769: VIVO: Visual Vocabulary Pre-Training for Novel Object Captioning
Xiaowei Hu, Xi Yin, Kevin Lin, Lei Zhang, Jianfeng Gao, Lijuan Wang, Zicheng Liu

7771: Style-Transfer and Paraphrase: Looking for a Sensible Semantic Similarity Metric
Ivan P Yamshchikov, Viacheslav A. Shibaev, Nikolay Khlebnikov, Alexey Tikhonov

7778: On Exploiting Hitting Sets for Model Reconciliation
Stylianos Loukas Vasileiou, Alessandro Previti, William Yeoh

7791: Continual Learning for Named Entity Recognition
Natawut Monaikul, Giuseppe Castellucci, Simone Filice, Oleg Rokhlenko

7798: Focused Inference and System P
Marco Wilhelm, Gabriele Kern-Isberner

7807: VSQL: Variational Shadow Quantum Learning for Classification
Guangxi Li, Zhixin Song, Xin Wang

7812: Text-Based RL Agents with Commonsense Knowledge: New Challenges, Environments and Baselines
Keerthiram Murugesan, Mattia Atzeni, Pavan Kapanipathi, Pushkar Shukla, Sadhana Kumaravel, Gerald Tesauro, Kartik Talamadupula, Mrinmaya Sachan, Murray Campbell

7833: Knowledge-Driven Natural Language Understanding of English Text and its Applications
Kinjal Basu, Sarat Chandra Varanasi, Farhad Shakerin, Joaquín Arias, Gopal Gupta

7838: Judgment Prediction via Injecting Legal Knowledge into Neural Networks
Leilei Gan, Kun Kuang, Yi Yang, Fei Wu

7844: Faster and Better Simple Temporal Problems
Dario Ostuni, Alice Raffaele, Romeo Rizzi, Matteo Zavatteri

7853: One SPRING to Rule Them Both: Symmetric AMR Semantic Parsing and Generation without a Complex Pipeline
Michele Bevilacqua, Rexhina Blloshmi, Roberto Navigli

7855: Argumentation Frameworks with Strong and Weak Constraints: Semantics and Complexity
Gianvincenzo Alfano, Sergio Greco, Francesco Parisi, Irina Trubitsyna

7857: A Unified Multi-Task Learning Framework for Joint Extraction of Entities and Relations
Tianyang Zhao, Zhao Yan, Yunbo Cao, Zhoujun Li

7868: Differentially Private and Fair Deep Learning: A Lagrangian Dual Approach
Cuong Tran, Ferdinando Fioretto, Pascal Van Hentenryck

7879: On Fair and Efficient Allocations of Indivisible Goods
Aniket Murhekar, Jugal Garg

7890: Frivolous Units: Wider Networks Are Not Really That Wide
Stephen Casper, Xavier Boix, Vanessa D'Amario, Ling Guo, Martin Schrimpf, Kasper Vinken, Gabriel Kreiman

7892: Combining Preference Elicitation with Local Search and Greedy Search for Matroid Optimization
Nawal Benabbou, Cassandre Leroy, Thibaut Lust, Patrice Perny

7907: Stock Selection via Spatiotemporal Hypergraph Attention Network: A Learning to Rank Approach
Ramit Sawhney, Shivam Agarwal, Arnav Wadhwa, Tyler Derr, Rajiv Ratn Shah

7911: DSLR : Dynamic to Static Lidar Scan Reconstruction Using Adversarially Trained Auto Encoder
Prashant Kumar, Sabyasachi Sahoo, Vanshil Shah, Vineetha Kondameedi, Abhinav Jain, Akshaj Verma, Chiranjib Bhattacharyya, Vinay Vishwanath

7923: Enabling Fast and Universal Audio Adversarial Attack Using Generative Model
Yi Xie, Zhuohang Li, Cong Shi, Jian Liu, Yingying Chen, Bo Yuan

7929: The Influence of Memory in Multi-Agent Consensus
David Kohan Marzagão, Luciana Basualdo Bonatto, Tiago Madeira, Marcelo Matheus Gauy, Peter McBurney

7930: Symbolic Music Generation with Transformer-GANs
Aashiq Muhamed, Liang Li, Xingjian Shi, Suri Yaddanapudi, Wayne Chi, Dylan Jackson, Suresh Rahul, Zachary Lipton, Alex J Smola

7936: Dynamic Automaton-Guided Reward Shaping for Monte Carlo Tree Search
Alvaro Velasquez, Brett Bissey, Lior Barak, Andre Beckus, Ismail Alkhouri, Daniel Melcer, George Atia

7938: Learning General Planning Policies from Small Examples without Supervision

Guillem Frances, Blai Bonet, Hector Geffner

7940: Learning to Scale Mixed-Integer Programs
Timo Berthold, Gregor Hendel

7945: Neural Latent Space Model for Dynamic Networks and Temporal Knowledge Graphs
Tony Gracious, Shubham Gupta, Arun Kanthali, Rui Castro, Ambedkar Dukkipati

7952: Sample Efficient Reinforcement Learning with REINFORCE
Junzi Zhang, Jongho Kim, Brendan O'Donoghue, Stephen Boyd

7954: Fairness in Forecasting and Learning Linear Dynamical Systems
Quan Zhou, Jakub Marecek, Robert Shorten

7955: Context-Guided BERT for Targeted Aspect-Based Sentiment Analysis
Zhengxuan Wu, Desmond Ong

7956: Counting Maximal Satisfiable Subsets
Jaroslav Bendík, Kuldeep S Meel

7971: Bounding Causal Effects on Continuous Outcome
Junzhe Zhang, Elias Bareinboim

7985: Goal Blending for Responsive Shared Autonomy in a Navigating Vehicle
Yu-Sian Jiang, Garrett Warnell, Peter Stone

7991: Learning Invariant Representations Using Inverse Contrastive Loss
Aditya Kumar Akash, Vishnu Suresh Lokhande, Sathya Ravi, Vikas Singh

8003: Revisiting Mahalanobis Distance for Transformer-Based Out-of-Domain Detection
Alexander Podolskiy, Dmitry Lipin, Andrey Bout, Ekaterina Artyomova, Irina Piontkovskaya

8004: Practical and Rigorous Uncertainty Bounds for Gaussian Process Regression
Christian Fiedler, Carsten Scherer, Trimpe Sebastian

8013: A Lightweight Neural Model for Biomedical Entity Linking
Lihu Chen, Gael P Varoquaux, Fabian Suchanek

8016: Enabling Fast Instruction-Based Modification of Learned Robot Skills
Tyler M Frasca, Bradley Oosterveld, Meia Chita-Tegmark, Matthias Scheutz

8020: NASTransfer: Analyzing Architecture Transferability in Large Scale Neural Architecture Search
Rameswar Panda, Michele Merler, Mayoore S Jaiswal, Hui Wu, Kandan Ramakrishnan, Ulrich Finkler, Chun-Fu Richard Chen, Minsik Cho, Rogerio Feris, David Kung, Bishwaranja Bhattacharjee

8027: NaturalConv: A Chinese Dialogue Dataset Towards Multi-Turn Topic-Driven Conversation
Xiaoyang Wang, Chen Li, Jianqiao Zhao, Dong Yu

8029: Reinforcement Learning of Sequential Price Mechanisms
Gianluca Brero, Alon Eden, Matthias Gerstgrasser, David Parkes, Duncan Rheingans-Yoo

8042: Robust Finite-State Controllers for Uncertain POMDPs
Murat Cubuktepe, Nils Jansen, Sebastian Junges, Ahmadreza Marandi, Marnix Suilen, Ufuk Topcu

8069: Indecision Modeling
Duncan C McElfresh, Lok Chan, Kenzie Doyle, Walter Sinnott-Armstrong, Vincent Conitzer, Jana Schaich Borg, John P Dickerson

8081: Online Action Recognition
Alejandro Suárez-Hernández, Javier Segovia-Aguas, Carme Torras, Guillem Alenyà

8106: Fair and Efficient Allocations with Limited Demands
Sushirdeep Narayana, Ian Kash

8111: Answering Regular Path Queries under Approximate Semantics in Lightweight Description Logics
Oliver Fernandez Gil, Anni-Yasmin Turhan

8113: 5* Knowledge Graph Embeddings with Projective Transformations
Mojtaba Nayyeri, Sahar Vahdati, Can Aykul, Jens Lehmann

8118: i-Algebra: Towards Interactive Interpretability of Deep Neural Networks
Xinyang Zhang, Pang Ren, Shouling Ji, Fenglong Ma, Ting Wang

8119: GenSynth: Synthesizing Datalog Programs without Language Bias
Jonathan Mendelson, Aaditya Naik, Mukund Raghothaman, Mayur Naik

8124: Robustness Guarantees for Mode Estimation with an Application to Bandits
Aldo Pacchiano, Heinrich Jiang, Michael Jordan

8144: eTREE: Learning Tree-Structured Embeddings
Faisal Almutairi, Yunlong Wang, Dong Wang, Emily Zhao, Nicholas Sidiropoulos

8145: Illuminating Mario Scenes in the Latent Space of a Generative Adversarial Network
Matthew Fontaine, Ruilin Liu, Ahmed Khalifa, Jignesh Modi, Julian Togelius, Amy K. Hoover, Stefanos Nikolaidis

8153: Learning Precise Temporal Point Event Detection with Misaligned Labels
Julien Schroeter, Kirill Sidorov, David Marshall

8154: Multi-Goal Multi-Agent Path Finding via Decoupled and Integrated Goal Vertex Ordering
Pavel Surynek

8159: Interpretable Self-Supervised Facial Micro-Expression Learning to Predict Cognitive State and Neurological Disorders
Arun Das, Jeffrey R Mock, Yufei Huang, Edward J Golob, Peyman Najafirad

8166: SMART: A Situation Model for Algebra Story Problems via Attributed Grammar
Yining Hong, Qing Li, Ran Gong, Daniel Ciao, Siyuan Huang, Song-Chun Zhu

8168: TAC: Towered Actor Critic for Handling Multiple Action Types in Reinforcement Learning for Drug Discovery
Sai Krishna Gottipati, Yashaswi Pathak, Boris Sattarov, . Sahir, Rohan Nuttall, Mohammad Amini, Matthew E. Taylor, Sarath Chandar

8179: Conversational Neuro-Symbolic Commonsense Reasoning
Forough Arabshahi, Jennifer Lee, Mikayla Gawarecki , Kathryn Mazaitis, Amos Azaria, Tom Mitchell

8181: Learning with Safety Constraints: Sample Complexity of Reinforcement Learning for Constrained MDPs
Aria HasanzadeZonuzy, Archana Bura, Dileep Kalathil, Srinivas Shakkottai

8186: Solving Common-Payoff Games with Approximate Policy Iteration
Samuel Sokota, Edward Lockhart, Finbarr Timbers, Elnaz Davoodi, Ryan D'Orazio, Neil Burch, Martin Schmid, Michael Bowling, Marc Lanctot

8192: Contextual Conditional Reasoning
Tommie Meyer, Giovanni Casini, Ivan J Varzinczak, Giovanni Casini

8202: Semi-Supervised Learning for Multi-Task Scene Understanding by Neural Graph Consensus
Marius Leordeanu, Mihai Cristian Pîrvu, Dragos Costea, Alina E Marcu, Emil Slusanschi, Rahul Sukthankar

8206: Learning Generalized Relational Heuristic Networks for Model-Agnostic Planning
Rushang V Karia, Siddharth Srivastava

8207: Bias and Variance of Post-Processing in Differential Privacy
Keyu Zhu, Pascal Van Hentenryck, Ferdinando Fioretto

8213: Modeling the Compatibility of Stem Tracks to Generate Music Mashups
Jiawen Huang, Ju-Chiang Wang, Jordan B. L. Smith, Xuchen Song, Yuxuan Wang

8216: Asynchronous Stochastic Gradient Descent for Extreme-Scale Recommender Systems
Lewis Liu, Kun Zhao

8233: Perception Score: A Learned Metric for Open-Ended Text Generation Evaluation
Jing Gu, Qingyang Wu, Zhou Yu

8236: Explainable Models with Consistent Interpretations
Vipin Pillai, Hamed Pirsiavash

8253: Bayesian Persuasion under Ex Ante and Ex Post Constraints
Yakov Babichenko, Inbal Talgam-Cohen, Konstantin Zabarnyi

8265: On the Tractability of SHAP Explanations
Guy Van den Broeck, Anton Lykov, Maximilian Schleich, Dan Suciu

8267: Outlier Impact Characterization for Time Series Data
Jianbo Li, Lecheng Zheng, Yada Zhu, Jingrui He

8279: Individual Fairness in Kidney Exchange Programs
Golnoosh Farnadi, William St-Arnaud , Behrouz Babaki, Margarida Carvalho

8289: General Policies, Representations, and Planning Width
Blai Bonet, Hector Geffner

8293: Automated Lay Language Summarization of Biomedical Scientific Reviews
Yue Guo, Wei Qiu, Yizhong Wang, Trevor Cohen

8308: Document-Level Relation Extraction with Adaptive Thresholding and Localized Context Pooling
Wenxuan Zhou, Kevin Huang, Tengyu Ma, Jing Huang

8309: SMT-Based Safety Checking of Parameterized Multi-Agent Systems
Paolo Felli, Alessandro Gianola, Marco Montali

8323: DeepSynth: Automata Synthesis for Automatic Task Segmentation in Deep Reinforcement Learning
Mohammadhosein Hasanbeig, Natasha Yogananda Jeppu, Alessandro Abate , Tom Melham, Daniel Kroening

8325: Steering a Historical Disease Forecasting Model under a Pandemic: Case of Flu and COVID-19: Alexander Rodríguez, Nikhil Muralidhar, Bijaya Adhikari, Anika Tabassum, Naren Ramakrishnan, B. Aditya Prakash

8335: IsoBN: Fine-Tuning BERT with Isotropic Batch Normalization
Wenxuan Zhou, Bill Yuchen Lin, Xiang Ren

8343: Persistence of Anti-Vaccine Sentiment in Social Networks through Strategic Interactions

A S M Ahsan-Ul Haque, Mugdha Thakur, Matthew Bielskas, Achla Marathe, Anil Vullikanti

8352: Successor Feature Sets: Generalizing Successor Representations across Policies
Kianté Brantley, Soroush Mehri, Geoff Gordon

8353: Classification with Strategically withheld Data
Anilesh K Krishnaswamy, Haoming Li, David Rein, Hanrui Zhang, Vincent Conitzer

8358: Adversarial Partial Multi-Label Learning with Label Disambiguation
Yan Yan, Yuhong Guo

8365: Fake it Till You Make it: Self-Supervised Semantic Shifts for Monolingual Word Embedding Tasks
Maurício G Gruppi, Pin-Yu Chen, Sibel Adali

8367: Encoding Syntactic Knowledge in Transformer Encoder for Intent Detection and Slot Filling
Jixuan Wang, Kai Wei, Martin Radfar, Weiwei Zhang, Clement Chung

8373: Context Matters: Graph-Based Self-Supervised Representation Learning for Medical Images
Li Sun, Ke Yu, Kayhan Batmanghelich

8398: Inverse Reinforcement Learning with Explicit Policy Estimates
Navyata Sanghvi, Shinnosuke Usami, Mohit Sharma, Joachim Groeger, Kris Kitani

8401: LIREx: Augmenting Language Inference with Relevant Explanations
Xinyan Zhao, V.G.Vinod Vydiswaran

8406: A Scalable Two Stage Approach to Computing Optimal Decision Sets
Alexey Ignatiev, Edward Lam, Peter Stuckey, Joao Marques-Silva

8413: Finding Diverse Trees, Paths, and More
Tesshu Hanaka, Yasuaki Kobayashi, Kazuhiro Kurita, Yota Otachi

8417: A Hierarchical Approach to Multi-Event Survival Analysis
Donna E Tjandra, Yifei He, Jenna Wiens

8418: On the Softmax Bottleneck of Recurrent Language Models
Dwarak Govind Parthiban, Yongyi Mao, Diana Inkpen

8419: ALP-KD: Attention-Based Layer Projection for Knowledge Distillation
Peyman Passban, Yimeng Wu, Mehdi Rezagholizadeh, Qun Liu

8428: Membership Privacy for Machine Learning Models through Knowledge Transfer
Virat Shejwalkar, Amir Houmansadr

8431: Consistency Regularization with High-Dimensional Non-Adversarial Source-Guided Perturbation for Unsupervised Domain Adaptation in Segmentation
Kaihong Wang, Chenhongyi Yang, Margrit Betke

8437: A Permutation-Equivariant Neural Network Architecture for Auction Design
Jad Rahme, Samy Jelassi, Joan Bruna, S. Matthew Weinberg

8452: StatEcoNet: Statistical Ecology Neural Networks for Species Distribution Modeling
Eugene Seo, Rebecca Hutchinson, Xiao Fu, Chelsea A Li, Tyler A Hallman, John B Kilbride, W. Douglas Robinson

8469: A Controllable Model of Grounded Response Generation
Zeqiu Wu, Michel Galley, Chris Brockett, Yizhe Zhang, Xiang Gao, Chris Quirk, Rik Koncel-Kedziorski, Jianfeng Gao, Hannaneh Hajishirzi, Mari Ostendorf, Bill Dolan

8472: Estimating Calibrated Individualized Survival Curves with Deep Learning
Fahad Kamran, Jenna Wiens

8474: Learning to Rationalize for Nonmonotonic Reasoning with Distant Supervision
Faeze FB Brahman, Vered Shwartz, Rachel Rudinger, Yejin Choi

8475: Controllable Guarantees for Fair Outcomes via Contrastive Information Estimation
Umang Gupta, Aaron M Ferber, Bistra Dilkina, Greg Ver Steeg

8483: IDOL: Inertial Deep Orientation-Estimation and Localization
Scott Sun, Dennis Melamed, Kris Kitani

8484: Graph Neural Networks with Heterophily
Jiong Zhu, Ryan A. Rossi, Anup Rao, Tung Mai, Nedim Lipka, Nesreen Ahmed, Danai Koutra

8488: Necessary and Sufficient Conditions for Avoiding Reopenings in Best First Suboptimal Search with General Bounding Functions
Jingwei Chen, Nathan R Sturtevant

8523: Have We Solved the Hard Problem? It's Not Easy! Contextual Lexical Contrast as a Means to Probe Neural Coherence
Wenqiang Lei, Yisong Miao, Runpeng Xie, Bonnie Webber, Meichun Liu, Tat-Seng Chua, Nancy Chen

8524: Contract-Based Inter-User Usage Coordination in Free-Floating Car Sharing
Kentaro Takahira, Shigeo Matsubara

8526: Bayes-TrEx: a Bayesian Sampling Approach to Model Transparency by Example
Serena L Booth, Yilun Zhou, Ankit Shah, Julie A. Shah

8537: Improving Causal Discovery by Optimal Bayesian Network Learning
Ni Lu, Kun Zhang, Changhe Yuan

8540: Classifying Sequences of Extreme Length with Constant Memory Applied to Malware Detection
Edward Raff, William Fleshman, Richard J Zak, Hyrum Anderson, Bobby Filar, Mark McLean

8541: Hybrid-Order Stochastic Block Model
Xunxun Wu, Chang-Dong Wang, Pengfei Jiao

8542: Optimising Automatic Calibration of Electric Muscle Stimulation
Graeme Gange, Jarrod Knibbe

8545: Mean-Variance Policy Iteration for Risk-Averse Reinforcement Learning
Shangtong Zhang, Bo Liu, Shimon Whiteson

8546: Submodular Span, with Applications to Conditional Data Summarization
Lilly Kumari, Jeff Bilmes

8554: Communication-Aware Collaborative Learning
Avrim Blum, Shelby L Heinecke, Lev Reyzin

8556: Iterative Bounding MDPs: Learning Interpretable Policies via Non-Interpretable Methods
Nicholay Topin, Stephanie Milani, Fei Fang, Manuela Veloso

8558: Adversarial Linear Contextual Bandits with Graph-Structured Side Observations
Lingda Wang, Bingcong Li, Huozhi Zhou, Georgios B. Giannakis, Lav Varshney, Zhizhen Zhao

8566: How Robust are Model Rankings : A Leaderboard Customization Approach for Equitable Evaluation
Swaroop Ranjan Mishra, Anjana Arunkumar

8575: Visual Concept Reasoning Networks
Taesup Kim, Sungwoong Kim, Yoshua Bengio

8577: Apparently Irrational Choice as Optimal Sequential Decision Making
Haiyang Chen, Hyung Jin Chang, Andrew Howes

8589: Understanding Decoupled and Early Weight Decay
Johan Björck, Kilian Weinberger, Carla P Gomes

8603: Adversarial Training and Provable Robustness: A Tale of Two Objectives
Jiamneg Fan, Wenchao Li

8606: Smooth Convex Optimization Using Sub-Zeroth-Order Oracles

Mustafa O Karabag, Cyrus Neary, Ufuk Topcu

8608: PID-Based Approach to Adversarial Attacks
Chen Wan, Biaohua Ye, Fangjun Huang

8610: Continual General Chunking Problem and SyncMap
Danilo Vasconcellos Vargas, Toshitake Asabuki

8615: Sequential Attacks on Kalman Filter-Based Forward Collision Warning Systems
Yuzhe Ma, Jon A Sharp, Ruizhe Wang, Earlence Fernandes, Xiaojin Zhu

8617: Inductive Graph Neural Networks for Spatiotemporal Kriging
Yuankai Wu, Dingyi Zhuang, Aurelie Labbe, Lijun Sun

8619: Temporal-Logic-Based Reward Shaping for Continuing Reinforcement Learning Tasks
Yuqian Jiang, Sudarshanan Bharadwaj, Bo Wu, Rishi Shah, Ufuk Topcu, Peter Stone

8636: Is the Most Accurate AI the Best Teammate? Optimizing AI for Teamwork
Gagan Bansal, Besmira Nushi, Ece Kamar, Eric Horvitz, Daniel Weld

8642: Stochastic Bandits with Graph Feedback in Non-Stationary Environments
Shiyin Lu, Yao Hu, Lijun Zhang

8648: Learning Graphons via Structured Gromov-Wasserstein Barycenters
Hongteng Xu, Dixin Luo, Hongyuan Zha, Lawrence Carin Duke

8654: Low-Rank Registration Based Manifolds for Convection-Dominated PDEs
Rambod Mojgani, Maciej Balajewicz

8662: Learning Graph Neural Networks with Approximate Gradient Descent
Qunwei Li, Shaofeng Zou, Wenliang Zhong

8666: Probabilistic Dependency Graphs
Oliver E Richardson, Joseph Y Halpern

8677: Stratified Rule-Aware Network for Abstract Visual Reasoning
Sheng Hu, Yuqing Ma, Xianglong Liu, Yanlu Wei, Shihao Bai

8686: HyDRA: Hypergradient Data Relevance Analysis for Interpreting Deep Neural Networks
Yuanyuan Chen, Boyang Li, Han Yu, Pengcheng Wu, Chunyan Miao

8692: AttnMove: History Enhanced Trajectory Recovery via Attentional Network
Tong Xia, Jie Feng, Yunhan Qi, Fengli Xu, Yong Li, Diansheng Guo, Funing Sun

8700: Interpretable Graph Capsule Networks for Object Recognition

Jindong Gu

8707: Empowering Adaptive Early-Exit Inference with Latency Awareness
Xinrui Tan, Hongjia Li, Liming Wang, Xueqing Huang, Zhen Xu

8716: Embracing Domain Differences in Fake News: Cross-Domain Fake News Detection Using Multi-Modal Data
Amila Ruwansiri Silva, Ling Luo, Shanika Karunasekera, Christopher Leckie

8720: Improving Robustness to Model Inversion Attacks via Mutual Information Regularization
Tianhao Wang, Yuheng Zhang, Ruoxi Jia

8746: Keyword-Guided Neural Conversational Model
Peixiang Zhong, Yong Liu, Hao Wang, Chunyan Miao

8769: CARE: Commonsense-Aware Emotional Response Generation with Latent Concepts
Peixiang Zhong, Di Wang, Pengfei Li, Chen Zhang, Hao Wang, Chunyan Miao

8771: Online 3D Bin Packing with Constrained Deep Reinforcement Learning
Hang Zhao, Qijin She, Chenyang Zhu, Yin Yang, Kai Xu

8779: Compound Word Transformer: Learning to Compose Full-Song Music over Dynamic Directed Hypergraphs
Wen-Yi Hsiao, Jen-Yu Liu, Yin-Cheng Yeh, Yi-Hsuan Yang

8780: Adaptive Beam Search Decoding for Discrete Keyphrase Generation
Xiaoli Huang, Tongge Xu, Lvan Jiao, Yueran Zu, Youmin Zhang

8787: Learned Extragradient ISTA with Interpretable Residual Structures for Sparse Coding
Yangyang Li, Lin Kong, Fanhua Shang, Yuanyuan Liu, Hongying Liu, Zhouchen Lin

8793: Attribute-Guided Adversarial Training for Robustness to Natural Perturbations
Tejas Gokhale, Rushil Anirudh, Bhavya Kailkhura, Jayaraman J. Thiagarajan, Chitta Baral, Yezhou Yang

8795: Entity Structure Within and Throughout: Modeling Mention Dependencies for Document-Level Relation Extraction
Benfeng Xu, Quan Wang, Yajuan Lyu, Yong Zhu, Zhendong Mao

8804: Minimizing Labeling Cost for Nuclei Instance Segmentation and Classificationwith Cross-Domain Images and Weak Labels
Siqi Yang, Jun Zhang, Junzhou Huang, Brian C Lovell, Xiao Han

8813: Bag of Tricks for Long-Tailed Visual Recognition with Deep Convolutional Neural Networks
Yongshun Zhang, Xiu-Shen Wei, Boyan Zhou, Jianxin Wu

8834: DDRel: A New Dataset for Interpersonal Relation Classification in Dyadic Dialogues
Qi Jia, Hongru Huang, Kenny Zhu

8882: Hindsight and Sequential Rationality of Correlated Play
Dustin Morrill, Ryan D'Orazio, Reca Sarfati, Marc Lanctot, James R Wright, Amy R Greenwald, Michael Bowling

8903: DeHiB: Deep Hidden Backdoor Attack on Semi-Supervised Learning via Adversarial Perturbation
Zhicong Yan, Gaolei Li, Yuan Tian, Jun Wu, Shenghong Li, Mingzhe Chen, H. Vincent Poor

8907: Single Player Monte-Carlo Tree Search Based on the Plackett-Luce Model
Felix Mohr, Viktor Bengs, Eyke Hüllermeier

8912: Flexible Non-Autoregressive Extractive Summarization with Threshold: How to Extract a Non-Fixed Number of Summary Sentences
Ruipeng Jia, Yanan Cao, Haichao Shi, Fang Fang, Pengfei Yin, Shi Wang

8922: Universal Adversarial Perturbations through the Lens of Deep Steganography: Towards a Fourier Perspective
Chaoning Zhang, Philipp Benz, Adil Karjauv, In So Kweon

8942: Adversarial Meta Sampling for Multilingual Low-Resource Speech Recognition
Yubei Xiao, Ke Gong, Pan Zhou, Guolin Zheng, Xiaodan Liang, Liang Lin

8954: Traffic Shaping in E-Commercial Search Engine: Multi-Objective Online Welfare Maximization
Liucheng Sun, Chenwei Weng, Chengfu Huo, Weijun Ren, Guochuan Zhang, Xin Li

8963: Physics-Constrained Automatic Feature Engineering for Predictive Modeling in Materials Science
Ziyu Xiang, Mingzhou Fan, Guillermo Vazquez, William Trehern, Byung-Jun Yoon, Xiaofeng Qian, Raymundo Arroyave, Xiaoning Qian

8970: On Estimating Recommendation Evaluation Metrics under Sampling
Ruoming Jin, Dong Li, Benjamin Mudrak, Jing Gao, Zhi Liu

8972: Robust Fairness under Covariate Shift
Ashkan Rezaei, Anqi Liu, Omid Memarrast, Brian Ziebart

8983: Boosting Multi-task Learning through Combination of Task Labels - with Applications in ECG Phenotyping
Ming-En Hsieh, Vincent Tseng

8987: Estimating Identifiable Causal Effects through Double Machine Learning
Yonghan Jung, Jin Tian, Elias Bareinboim

8990: Curse or Redemption? How Data Heterogeneity Affects the Robustness of Federated Learning
Syed Zawad, Ahsan Ali, Pin-Yu Chen, Ali Anwar, Yi Zhou, Nathalie Baracaldo, Yuan Tian, Feng Yan

9018: Differentially Private Link Prediction with Protected Connections
Abir De, Soumen Chakrabarti

9028: PAC Learning of Causal Trees with Latent Variables
Prasad Tadepalli, Stuart Russell

9030: DeepPseudo: Pseudo Value Based Deep Learning Models for Competing Risk Analysis
Md Mahmudur Rahman, Koji Matsuo, Shinya Matsuzaki, Sanjay Purushotham

9032: Adversarial Permutation Guided Node Representations for Link Prediction
Indradyumna Roy, Abir De, Soumen Chakrabarti

9044: Single View Point Cloud Generation via Unified 3D Prototype
Yu Lin, Yigong Wang, Yi-Fan Li, Zhuoyi Wang, Yang Gao, Latifur Khan

9069: Knowledge-Aware Coupled Graph Neural Network for Social Recommendation
Chao Huang, Huance Xu, Yong Xu, Peng Dai, Lianghao Xia, Mengyin Lu, Liefeng Bo, Hao Xing, Xiaoping Lai, Yanfang Ye

9071: Computational Analyses of the Electoral College: Campaigning Is Hard but Approximately Manageable
Sina Dehghani, Hamed Saleh, Saeed Seddighin, Shanghua Teng

9078: (Comet-) Atomic 2020: On Symbolic and Neural Commonsense Knowledge Graphs
Jena D Hwang, Chandra Bhagavatula, Ronan Le Bras, Jeff Da, Keisuke Sakaguchi, Antoine Bosselut, Yejin Choi

9086: Span-Based Event Coreference Resolution
Jing Lu, Vincent Ng

9088: Near Lossless Transfer Learning for Spiking Neural Networks
Zhanglu Yan, Jun Zhou, Weng-Fai Wong

9097: Game of Gradients: Mitigating Irrelevant Clients in Federated Learning
Lokesh Nagalapatti, Ramasuri Narayanam

9099: PenDer: Incorporating Shape Constraints via Penalized Derivatives
Akhil Gupta, Lavanya Marla, Ruoyu Sun, Naman Shukla, Arinbjörn Kolbeinsson

9103: Robust Bandit Learning with Imperfect Context
Jianyi Yang, Shaolei Ren

9104: Ref-NMS: Breaking Proposal Bottlenecks in Two-Stage Referring Expression Grounding
Long Chen, Wenbo Ma, Jun Xiao, Hanwang Zhang, Shih-Fu Chang

9108: Exploiting Learnable Joint Groups for Hand Pose Estimation
Moran Li, Yuan Gao, Nong Sang

9134: Proposal-Free Video Grounding with Contextual Pyramid Network
Kun Li, Dan Guo, Meng Wang

9137: Graph-Enhanced Multi-Task Learning of Multi-Level Transition Dynamics for Session-Based Recommendation
Chao Huang, Jiahui Chen, Lianghao Xia, Yong Xu, Peng Dai, Yanqing Chen, Liefeng Bo, Jiashu Zhao, Jimmy Huang

9150: Segmentation of Tweets with URLs and its Applications to Sentiment Analysis
Abdullah Aljebreen, Weiyi Meng, Eduard Dragut

9153: StarNet: Towards Weakly Supervised Few-Shot Object Detection
Leonid Karlinsky, Joseph Shtok, Amit Alfassy, Moshe Lichtenstein, Sivan Harary, Eli Schwartz, Sivan Doveh, Prasanna Sattigeri, Rogerio Feris, Alex Bronstein, Raja Giryes

9155: Knowledge-Aware Named Entity Recognition with Alleviating Heterogeneity
Binling Nie, Ruixue Ding, Pengjun Xie, Fei Huang, Chen Qian, Luo Si

9161: FILTER: An Enhanced Fusion Method for Cross-Lingual Language Understanding
Yuwei Fang, Shuohang Wang, Zhe Gan, Siqi Sun, Jingjing Liu

9192: Classification under Human Assistance
Abir De, Nastaran Okati, Ali Zarezade, Manuel Gomez Rodriguez

9199: Lenient Regret for Multi-Armed Bandits
Nadav Merlis, Shie Mannor

9205: A Blind Block Term Decomposition of High Order Tensors
Yunfeng Cai, Ping Li

9208: A Unified Pretraining Framework for Passage Ranking and Expansion
Ming Yan, Chenliang Li, Bin Bi, Wei Wang, Songfang Huang

9214: Image-to-Image Retrieval by Learning Similarity between Scene Graphs

Sangwoong Yoon, Woo Young Kang, Sungwook Jeon, SeongEun Lee, Changjin Han, Jonghun Park, Eun-Sol Kim

9221: Faster Game Solving via Predictive Blackwell Approachability: Connecting Regret Matching and Mirror Descent
Gabriele Farina, Christian Kroer, Tuomas Sandholm

9225: Visualization of Supervised and Self-Supervised Neural Networks via Attribution Guided Factorization
Shir Gur, Ameen Ali, Lior Wolf

9241: Human Uncertainty Inference via Deterministic Ensemble Neural Networks
Yujin Cha, Sang Wan Lee

9242: Rejection Sampling for Weighted Jaccard Similarity Revisited
Xiaoyun Li, Ping Li

9248: Asynchronous Optimization Methods for Efficient Training of Deep Neural Networks with Guarantees
Vyacheslav Kungurtsev, Malcolm Egan, Bapi Chatterjee, Dan Alistarh

9254: Learning to Reweight with Deep Interactions
Yang Fan, Yingce Xia, Lijun Wu, Shufang Xie, Weiqing Liu, Jiang Bian, Tao Qin, Xiangyang Li

9257: Facility's Perspective to Fair Facility Location Problems
Hau Chan, Minming Li, Chenhao Wang, Xiaoying Wu

9262: Online DR-Submodular Maximization: Minimizing Regret and Constraint Violation
Prasanna S Raut, Omid Sadeghi, Maryam Fazel

9265: Deep Transfer Tensor Decomposition with Orthogonal Constraint for Recommender Systems
Zhengyu Chen, Ziqing Xu, Donglin Wang

9290: Sample Complexity of Policy Gradient Finding Second-Order Stationary Points
Long Yang, Qian Zheng, Gang Pan

9291: Exploring Explainable Selection to Control Abstractive Summarization
Haonan Wang, Yang Gao, Yu Bai, Mirella Lapata, Heyan Huang

9295: Noise Estimation Using Density Estimation for Self-Supervised Multimodal Learning
Elad Amrani, Rami Ben-Ari, Daniel Rotman, Alex Bronstein

9326: Turbocharging Treewidth-Bounded Bayesian Network Structure Learning
P. R. Vaidyanathan, Stefan Szeider

9330: Tightening Robustness Verification of Convolutional Neural Networks with Fine-Grained Linear Approximation
Yiting Wu, Min Zhang

9332: A Sharp Leap from Quantified Boolean Formula to Stochastic Boolean Satisfiability Solving
Pei-Wei Chen, Yu-Ching Huang, Jie-Hong R Jiang

9350: Loop Estimator for Discounted Values in Markov Reward Processes
Falcon Dai, Matthew Walter

9354: Liquid Time-Constant Networks
Ramin Hasani, Mathias Lechner, Alexander Amini, Daniela Rus, Radu Grosu

9365: The Heads Hypothesis: A Unifying Statistical Approach towards Understanding Multi-Headed Attention in BERT
Madhura Pande, Aakriti Budhraja, Preksha Nema, Pratyush Kumar, Mitesh M. Khapra

9374: End-to-End Semantic Role Labeling with Neural Transition-Based Model
Hao Fei, Meishan Zhang, Bobo Li, Donghong Ji

9385: A General Offline Reinforcement Learning Framework for Interactive Recommendation
Teng Xiao, Donglin Wang

9392: Efficient Certification of Spatial Robustness
Anian Ruoss, Maximilian Baader, Mislav Balunovic, Martin Vechev

9401: Exploiting Unlabeled Data via Partial Label Assignment for Multi-Class Semi-Supervised Learning
Zhen-Ru Zhang, Qian-Wen Zhang, Yunbo Cao, Min-Ling Zhang

9427: On-Line Learning of Planning Domains from Sensor Data in PAL: Scaling up to Large State Spaces
Leonardo Lamanna, Alfonso Gerevini, Alessandro Saetti, Luciano Serafini, Paolo Traverso

9429: Weighting-Based Variable Neighborhood Search for Optimal Camera Placement
Zhouxing Su, Qingyun Zhang, Zhipeng Lü, Chumin Li, Weibo Lin, Fuda Ma

9436: Token-Aware Virtual Adversarial Training in Natural Language Understanding
Linyang Li, Xipeng Qiu

9440: An Information-Theoretic Framework for Unifying Active Learning Problems
Quoc Phong Nguyen, Bryan Kian Hsiang Low, Patrick Jaillet

9452: On the Verification of Neural ODEs with Stochastic Guarantees
Sophie Grünbacher, Ramin Hasani, Mathias Lechner, Jacek Cyranka, Scott A. Smolka, Radu Grosu

9457: Minimax Regret Optimisation for Robust Planning in Uncertain Markov Decision Processes
Marc Rigter, Bruno Lacerda, Nick Hawes

9459: Planning from Pixels in Atari with Learned Symbolic Representations
Andrea Dittadi, Frederik K Drachmann, Thomas Bolander

9475: Randomized Generation of Adversary-Aware Fake Knowledge Graphs to Combat Intellectual Property Theft
Snow Kang, Cristian Molinaro, Andrea Pugliese, V. S. Subrahmanian

9486: Progressive Network Grafting for Few-Shot Knowledge Distillation
Chengchao Shen, Xinchao Wang, Youtan Yin, Jie Song, Sihui Luo, Mingli Song

9500: Probabilistic Programming Bots in Intuitive Physics Game Play
Fahad Alhasoun, Sarah Alnegheimish

9512: UWSpeech: Speech to Speech Translation for Unwritten Languages
Chen Zhang, Xu Tan, Yi Ren, Tao Qin, Kejun Zhang, Tieyan Liu

9535: Variational Inference for Learning Representations of Natural Language Edits
Edison Marrese-Taylor, Machel O Reid, Yutaka Matsuo

9541: Analogy Training Multilingual Encoders
Nicolas Garneau, Mareike Hartmann, Anders T Sandholm, Sebastian Ruder, Ivan Vulić, Anders Søgaard

9549: Teaching the Old Dog New Tricks: Supervised Learning with Constraints
Fabrizio Detassis, Michele Lombardi, Michela Milano

9567: Automated Cross-Prompt Scoring of Essay Traits
Robert Ridley, Liang He, Xin-yu Dai, Shujian Huang, Jiajun Chen

9602: Commonsense Knowledge Augmentation for Low-Resource Languages via Adversarial Learning
Bosung Kim, Juae Kim, Youngjoong Ko, Jungyun Seo

9625: Towards Generalized Implementation of Wasserstein Distance in GANs
Minkai Xu

9654: Foresee then Evaluate: Decomposing Value Estimation with Latent Future Prediction
Hongyao Tang, Zhaopeng Meng, Guangyong Chen, Pengfei Chen, Chen Chen, Yaodong Yang, Luo Zhang, Wulong Liu, Jianye Hao

9663: Modular Graph Transformer Networks for Multi-Label Image Classification

Hoang D. Nguyen, Xuan-Son Vu, Duc-Trong Le

9686: IB-GAN: Disengangled Representation Learning with Information Bottleneck Generative Adversarial Networks
Insu Jeon, Wonkwang Lee, Myeongjang Pyeon, Gunhee Kim

9700: Using Hindsight to Anchor Past Knowledge in Continual Learning
Arslan Chaudhry, Albert Gordo, Puneet Dokania, Philip Torr, David Lopez-Paz

9702: End-to-End Differentiable Learning to HDR Image Synthesis for Multi-Exposure Images
Junghee Kim, Siyeong Lee, Suk-Ju Kang

9708: Multi-Decoder Attention Model with Embedding Glimpse for Solving Vehicle Routing Problems
Liang Xin, Wen Song, Zhiguang Cao, Jie Zhang

9714: Augmented Partial Mutual Learning with Frame Masking for Video Captioning
Ke Lin, Zhuoxin Gan, Liwei Wang

9719: Joint Semantic Analysis with Document-Level Cross-Task Coherence Rewards
Rahul Aralikatte, Mostafa Abdou, Heather C Lent, Daniel Hershcovich, Anders Søgaard

9720: Clinical Risk Prediction with Temporal Probabilistic Asymmetric Multi-Task Learning
Tuan Anh Nguyen, Hyewon Jeong, Eunho Yang, Sung Ju Hwang

9721: Empower Distantly Supervised Relation Extraction with Collaborative Adversarial Training
Tao Chen, Haochen Shi, Liyuan Liu, Siliang Tang, Jian Shao, Zhigang Chen, Yueting Zhuang

9722: Visual Pivoting for (Unsupervised) Entity Alignment
Fangyu Liu, Muhao Chen, Dan Roth, Nigel Collier

9723: Deep Open Intent Classification with Adaptive Decision Boundary
Hanlei Zhang, Hua Xu, Ting-En Lin

9724: Movie Summarization via Sparse Graph Construction
Pinelopi Papalampidi, Frank Keller, Mirella Lapata

9726: Towards Semantics-Enhanced Pre-Training: Can Lexicon Definitions Help Learning Sentence Meanings?
Xuancheng Ren, Xu Sun, Houfeng Wang, Qun Liu

9727: The Gap on Gap: Tackling the Problem of Differing Data Distributions in Bias-Measuring Datasets
Vid Kocijan, Oana-Maria Camburu, Thomas Lukasiewicz

9737: Fact-Enhanced Synthetic News Generation
Kai Shu, Yichuan Li, Kaize Ding, Huan Liu

9740: Clinical Temporal Relation Extraction with Probabilistic Soft Logic Regularization and Global Inference
Yichao Zhou, Yu Yan, Rujun Han, J. Harry Caufield, Kai-Wei Chang, Yizhou Sun, Peipei Ping, Wei Wang

9743: Self-Supervised Self Supervision by Combining Deep Learning and Probabilistic Logic
Hunter Lang, Hoifung Poon

9746: TreeCaps: Tree-Based Capsule Networks for Source Code Processing
Nghi Bui, Yijun Yu, Lingxiao Jiang

9749: Dialog Policy Learning for Joint Clarification and Active Learning Queries
Aishwarya Padmakumar, Raymond Mooney

9753: Semantics-Aware Inferential Network for Natural Language Understanding
Shuiliang Zhang, Hai Zhao, Junru Zhou, Xi Zhou, Xiang Zhou

9758: Topic-Aware Multi-Turn Dialogue Modeling
Yi Xu, Hai Zhao, Zhuosheng Zhang

9759: Reward-Biased Maximum Likelihood Estimation for Linear Stochastic Bandits
Yu Heng Hung, Ping-Chun Hsieh, Xi Liu, P. R. Kumar

9766: Stylized Dialogue Response Generation Using Stylized Unpaired Texts
Yinhe Zheng, Zikai Chen, Rongsheng Zhang, Shilei Huang, Xiaoxi Mao, Minlie Huang

9767: Exploiting Audio-Visual Consistency with Partial Supervision for Spatial Audio Generation
Yan-Bo Lin, Yu-Chiang Frank Wang

9770: Error-Correcting Output Codes with Ensemble Diversity for Robust Learning in Neural Networks
Yang Song, Qiyu Kang, Wee Peng Tay

9772: Memory and Computation-Efficient Kernel SVM via Binary Embedding and Ternary Coefficients
Zijian Lei, Liang Lan

9774: The Power of Literal Equivalence in Model Counting
Yong Lai, Kuldeep S Meel, Roland Yap

9783: Vid-ODE: Continuous-Time Video Generation with Neural Ordinary Differential Equation
Sunghyun Park, Kangyeol Kim, Junsoo Lee, Jaegul Choo, Joonseok Lee, Sookyung Kim, Edward Choi

9784: Scalable and Explainable 1-Bit Matrix Completion via Graph Signal Learning
Chao Chen, Dongsheng Li, Junchi Yan, Hanchi Huang, Xiaokang Yang

9785: Show, Attend and Distill: Knowledge Distillation via Attention-Based Feature Matching
Mingi Ji, Byeongho Heo, Sungrae Park

9798: Federated Block Coordinate Descent Scheme for Learning Global and Personalized Models
Ruiyuan Wu, Anna Scaglione, Hoi-To Wai, Nurullah Karakoc, Kari Hreinsson, Wing-Kin Ma

9807: DropLoss for Long-Tail Instance Segmentation
Ting-I Hsieh, Esther A Robb, Hwann-Tzong Chen, Jia-Bin Huang

9810: Generating Diversified Comments via Reader-Aware Topic Modeling and Saliency Detection
Wei Wang, Piji Li, Hai-Tao Zheng

9813: Combining Reinforcement Learning and Constraint Programming for Combinatorial Optimization
Quentin Cappart, Thierry Moisan, Louis-Martin Rousseau, Isabeau Prémont-Schwarz, Andre Cire

9815: MAMBA: Multi-level Aggregation via Memory Bank for Video Object Detection
Guanxiong Sun, Yang Hua, Guosheng Hu, Neil Robertson

9817: Improved Consistency Regularization for GANs
Zhengli Zhao, Sameer Singh, Honglak Lee, Zizhao Zhang, Augustus Odena, Han Zhang

9820: Quantum Exploration Algorithms for Multi-Armed Bandits
Daochen Wang, Xuchen You, Tongyang Li, Andrew Childs

9821: A Case Study of the Shortcut Effects in Visual Commonsense Reasoning
Keren Ye, Adriana Kovashka

9822: Infinite Gaussian Mixture Modeling with an Improved Estimation of the Number of Clusters
Avi Matza, Yuval Bistritz

9826: Parameterizing Branch-and-Bound Search Trees to Learn Branching Policies
Jason Jo, Giulia Zarpellon, Andrea Lodi, Yoshua Bengio

9831: Differentiable Fluids with Solid Coupling for Learning and Control
Tetsuya Takahashi, Junbang Liang, Yi-Ling Qiao, Ming C Lin

9835: GraphMix: Improved Training of GNNs for Semi-Supervised Learning
Vikas Verma, Meng Qu, Kenji Kawaguchi, Alex M Lamb, Yoshua Bengio, Juho Kannala, Jian Tang

9839: Brain Decoding Using fNIRS

Lu Cao, Dandan Huang, Yue Zhang, Xiaowei Jiang, Yanan Chen

9842: Contextualized Rewriting for Text Summarization
Guangsheng Bao, Yue Zhang

9845: Consecutive Decoding for Speech-to-Text Translation
Qianqian Q Dong, Mingxuan Wang, Hao Zhou, Shuang Xu, Bo Xu, Lei Li

9856: Anytime Inference with Distilled Hierarchical Neural Ensembles
Adria Ruiz, Jakob Verbeek

9859: Active Feature Selection for the Mutual Information Criterion
Shachar Schnapp, Sivan Sabato

9862: Distributional Reinforcement Learning via Moment Matching
Thanh Tang Nguyen, Sunil Gupta, Svetha Venkatesh

9863: Learning Dynamics Models with Stable Invariant Sets
Naoya Takeishi, Yoshinobu Kawahara

9866: Interpreting Multivariate Shapley Interactions in DNNs
Hao Zhang, Yichen Xie, Longjie Zheng, Die Zhang, Quanshi Zhang

9868: Learning from eXtreme Bandit Feedback
Romain Lopez, Inderjit S. Dhillon, Michael Jordan

9869: Non-Asymptotic Convergence of Adam-Type Reinforcement Learning Algorithms under Markovian Sampling
Huaqing Xiong, Tengyu Xu, Yingbin Liang, Wei Zhang

9870: Power up! Robust Graph Convolutional Network via Graph Powering
Heng Chang, Ming Jin, Wenwu Zhu, Somayeh Sojoudi

9871: Task-Agnostic Exploration via Policy Gradient of a Non-Parametric State Entropy Estimate
Mirco Mutti, Lorenzo Pratissoli, Marcello Restelli

9877: Projection-Free Bandit Optimization with Privacy Guarantees
Alina Ene, Huy Nguyen, Adrian Vladu

9880: Weakly-Supervised Hierarchical Models for Predicting Persuasive Strategies in Good-Faith Textual Requests
Jiaao Chen, Diyi Yang

9884: GO Hessian for Expectation-Based Objectives
Yulai Cong, Miaoyun Zhao, Jianqiao Li, Junya Chen, Lawrence Carin Duke

9885: Context-Aware Attentional Pooling (CAP) for Fine-Grained Visual Classification
Ardhendu Behera, Zachary Wharton, Pradeep R P G Hewage, ASISH BERA

9890: Revisiting Consistent Hashing with Bounded Loads
John Chen, Benjamin Coleman, Anshumali Shrivastava

9891: Ordinal Historical Dependence in Graphical Event Models with Tree Representations
Debarun Bhattacharjya, Tian Gao, Dharmashankar Subramanian

9893: If You Like Shapley Then You'll Love the Core
Tom Yan, Ariel D Procaccia

9903: Temporal-Coded Deep Spiking Neural Network with Easy Training and Robust Performance
Shibo Zhou, Xiaohua Li, Ying Chen, Sanjeev Tannirkulam Chandrasekaran, Arindam Sanyal

9905: TempLe: Learning Template of Transitions for Sample Efficient Multi-Task RL
Yanchao Sun, Xiangyu Yin, Furong Huang

9906: Characterizing Deep Gaussian Processes via Nonlinear Recurrence Systems
Anh Tong, Jaesik Choi

9907: On the Importance of Word Order Information in Cross-Lingual Sequence Labeling
Zihan Liu, Genta I Winata, Samuel Cahyawijaya, Andrea Madotto, Zhaojiang Lin, Pascale Fung

9910: Humor Knowledge Enriched Transformer for Understanding Multimodal Humor
Md Kamrul Hasan, Sangwu Lee, Wasifur Rahman, Amir Zadeh, Rada Mihalcea, Louis-Philippe Morency, Ehsan Hoque

9913: Combinatorial Pure Exploration with Full-Bandit or Partial Linear Feedback
Yihan Du, Yuko Kuroki, Wei Chen

9917: Denoising Distantly Supervised Named Entity Recognition via a Hypergeometric Probabilistic Model
Hongyu Lin, Wenkai Zhang, Xianpei Han, Le Sun, Huidan Liu, Nicholas Yuan, Zhicheng Wei

9925: Infusing Multi-Source Knowledge with Heterogeneous Graph Neural Network for Emotional Conversation Generation
Yunlong Liang, Fandong Meng, Ying Zhang, Yufeng Chen, Jinan Xu, Jie Zhou

9928: A New Bounding Scheme for Influence Diagrams
Radu Marinescu, Junkyu Lee, Rina Dechter

9929: Searching for Machine Learning Pipelines Using a Context-Free Grammar

Radu Marinescu, Akihiro Kishimoto, Parikshit Ram, Ambrish Rawat, Martin Wistuba, Paulito P. Palmes, Adi Botea

9933: Artificial Dummies for Urban Dataset Augmentation
Antonin Vobecky, David Hurych, Michal Uricar, Patrick Pérez, Josef Sivic

9938: Explaining Neural Matrix Factorization with Gradient Rollback
Carolin Lawrence, Timo Sztyler, Mathias Niepert

9940: Binary Matrix Factorisation via Column Generation
Reka A Kovacs, Oktay Gunluk, Raphael Hauser

9941: Learning to Pre-Train Graph Neural Networks
Yuanfu Lu, Xunqiang Jiang, Yuan Fang, Chuan Shi

9942: Towards Reusable Network Components by Learning Compatible Representations
Michael Gygli, Jasper Uijlings, Vittorio Ferrari

9943: Stable Adversarial Learning under Distributional Shifts
Jiashuo Liu, Zheyan Shen, Peng Cui, Linjun Zhou, Kun Kuang, Bo Li, Yishi Lin

9948: Sub-Seasonal Climate Forecasting via Machine Learning: Challenges, Analysis, and Advances
Sijie He, Xinyan Li, Timothy DelSole, Pradeep Ravikumar, Arindam Banerjee

9950: Learning Light-Weight Translation Models from Deep Transformer
Bei Li, Ziyang Wang, Hui Liu, Quan Du, Tong Xiao, Chunliang Zhang, Jingbo Zhu

9952: Elastic Consistency: A Practical Consistency Model for Distributed Stochastic Gradient Descent
Giorgi Nadiradze, Ilia Markov, Bapi Chatterjee, Vyacheslav Kungurtsev, Dan Alistarh

9953: Learning Rewards from Linguistic Feedback
Theodore R Sumers, Mark Ho, Robert Hawkins, Karthik Narasimhan, Tom Griffiths

9957: FC-GAGA: Fully Connected Gated Graph Architecture for Spatio-Temporal Traffic Forecasting
Boris N. Oreshkin, Arezou Amini, Lucy Coyle, Mark Coates

9962: Nearly Linear-Time, Parallelizable Algorithms for Non-Monotone Submodular Maximization
Alan Kuhnle

9971: XL-WSD: An Extra-Large and Cross-Lingual Evaluation Framework for Word Sense Disambiguation
Tommaso Pasini, Alessandro Raganato, Roberto Navigli

9972: Knowledge-Aware Leap-LSTM: Integrating Prior Knowledge into Leap-LSTM towards Faster Long Text Classification
Jinhua Du, Yan Huang, Karo Moilanen

9976: Meta-Learning Framework with Applications to Zero-Shot Time-Series Forecasting
Boris N. Oreshkin, Dmitri Carpov, Chapados Nicolas, Yoshua Bengio

9979: Curriculum Labeling: Revisiting Pseudo-Labeling for Semi-Supervised Learning
Paola Cascante-Bonilla, Fuwen Tan, Yanjun Qi, Vicente Ordonez

9980: HARGAN: Heterogeneous Argument Attention Network for Persuasiveness Prediction
Kuo-Yu Huang, Hen-Hsen Huang, Hsin-Hsi Chen

9983: Data-Driven Competitive Algorithms for Online Knapsack and Set Cover
Ali Zeynali, Bo Sun, Mohammad Hajiesmaili, Adam Wierman

9984: Multi-Dimensional Explanation of Target Variables from Documents
Diego Antognini, Claudiu Musat, Boi Faltings

9985: Fast Training of Provably Robust Neural Networks by SingleProp
Akhilan Boopathy, Lily Weng, Sijia Liu, Pin-Yu Chen, Gaoyuan Zhang, Luca Daniel

9986: Learning Adjustment Sets from Observational and Limited Experimental Data
Sofia Triantafillou, Greg Cooper

9988: Online Class-Incremental Continual Learning with Adversarial Shapley Value
Dongsub Shim, Zheda Mai, Jihwan Jeong, Scott Sanner, Hyunwoo Kim, Jongseong Jang

9994: Precision-Based Boosting
Mohammad Hossein Nikravan, Marjan Movahedan, Sandra Zilles

9997: Computing Ex Ante Coordinated Team-Maxmin Equilibria in Zero-Sum Multiplayer Extensive-Form Games
Youzhi Zhang, Bo An, Jakub Cerny

9998: Identity-Aware Graph Neural Networks
Jiaxuan You, Jonathan M Gomes-Selman, Rex Ying, Jure Leskovec

9999: Unsupervised Learning of Graph Hierarchical Abstractions with Differentiable Coarsening and Optimal Transport
Tengfei Ma, Jie Chen

10000: Inverse Reinforcement Learning with Natural Language Goals
Li Zhou, Kevin Small

10011: Towards Feature Space Adversarial Attack by Style Perturbation
Qiuling Xu, Guanhong Tao, Siyuan Cheng, Xiangyu Zhang

10012: Data Augmentation for Graph Neural Networks
Tong Zhao, Yozen Liu, Leonardo Neves, Oliver J Woodford, Meng Jiang, Neil Shah

10013: Estimating alpha-Rank by Maximizing Information Gain
Tabish Rashid, Cheng Zhang, Kamil Ciosek

10014: Decentralized Policy Gradient Descent Ascent for Safe Multi-Agent Reinforcement Learning
Songtao Lu, Kaiqing Zhang, Tianyi Chen, Tamer Basar, Lior Horesh

10016: Differentially Private Decomposable Submodular Maximization
Anamay Chaturvedi, Huy Nguyen, Lydia Zakynthinou

10019: Localization in the Crowd with Topological Constraints
Shahira Abousamra, Minh Hoai Nguyen, Dimitris Samaras, Chao Chen

10021: Avoiding Kernel Fixed Points: Computing with ELU and GELU Infinite Networks
Russell Tsuchida, Tim D Pearce, Chris van der Heide, Fred Roosta, Marcus Gallagher

10022: Learning Branching Heuristics for Propositional Model Counting
Pashootan Vaezipoor, Gil Lederman, Yuhuai Wu, Chris Maddison, Roger B Grosse, Sanjit A. Seshia, Fahiem Bacchus

10024: Towards Topic-Aware Slide Generation for Academic Papers with Unsupervised Mutual Learning
Da-Wei Li, Danqing Huang, Tingting Ma, Chin-Yew Lin

10027: GTA: Graph Truncated Attention for Retrosynthesis
Seung-Woo Seo, You Young Song, June Yong Yang, Seohui Bae, Hankook Lee, Jinwoo Shin, Sung Ju Hwang, Eunho Yang

10028: The Sample Complexity of Teaching by Reinforcement on Q-Learning
Xuezhou Zhang, Shubham Bharti, Yuzhe Ma, Adish Singla, Xiaojin Zhu

10029: Geodesic-HOF: 3D Reconstruction without Cutting Corners
Ziyun Wang, Eric Mitchell, Volkan Isler, Daniel D Lee

10033: Visual Transfer for Reinforcement Learning via Wasserstein Domain Confusion
Josh Roy, George Konidaris

10037: Class-Attentive Diffusion Network for Semi-Supervised Classification
Jongin Lim, Daeho Um, Hyung Jin Chang, Dae Ung Jo, Jin Young Choi

10040: Semi-Supervised Learning with Variational Bayesian Inference and Maximum Uncertainty Regularization
Kien Duc Do, Truyen Tran, Svetha Venkatesh

10043: Variance Penalized On-Policy and Off-Policy Actor-Critic
Arushi Jain, Gandharv Patil, Ayush Jain, Khimya Khetarpal, Doina Precup

10056: Predicting Livelihood Indicators from Community-Generated Street-Level Imagery
Jihyeon Lee, Dylan J Grosz, Burak Uzkent, Sicheng Zeng, Marshall Burke, David Lobell, Stefano Ermon

10060: Inference-Based Deterministic Messaging for Multi-Agent Communication
Varun Bhatt, Michael Buro

10062: Co-GAT: A Co-Interactive Graph Attention Network for Joint Dialog Act Recognition and Sentiment Classification
Libo Qin, Zhouyang Li, Wanxiang Che, Minheng Ni, Ting Liu

10063: MTAAL: Multi-Task Adversarial Active Learning for Medical Named Entity Recognition and Normalization
Baohang Zhou, Xiangrui Cai, Ying ZHANG, Wenya Guo, Xiaojie Yuan

10069: Adressing Class Imbalance in Federated Learning
Lixu Wang, Shichao Xu, Xiao Wang, Zhu Qi

10076: A Neural Group-Wise Sentiment Analysis Model with Data Sparsity Awareness
Deyu Zhou, Meng Zhang, Linhai Zhang, Yulan He

10083: DialogBERT: Discourse-Aware Response Generation via Learning to Recover and Rank Utterances
Xiaodong Gu, Kang Min Yoo, Jung-Woo Ha

10087: Iterative Utterance Segmentation for Neural Semantic Parsing
Yinuo Guo, Zeqi Lin, Jian-Guang Lou, Dongmei Zhang

10089: Extending Multi-Sense Word Embedding to Phrases and Sentences for Unsupervised Semantic Applications
Haw-shiuan Chang, Amol Agrawal, Andrew McCallum

10091: Beyond Low-Frequency Information in Graph Convolutional Networks
Deyu Bo, Xiao Wang, Chuan Shi, Huawei Shen

10094: Neural-Symbolic Integration: A Compositional Perspective
Efthymia Tsamoura, Timothy Hospedales, Loizos Michael

10098: Policy Optimization as Online Learning with Mediator Feedback
Alberto Maria Metelli, Matteo Papini, Pierluca D'Oro, Marcello Restelli

10099: Adversarial Language Games for Advanced Natural Language Intelligence
Yuan Yao, Haoxi Zhong, Zhengyan Zhang, Xu Han, Xiaozhi Wang, Kai Zhang, Chaojun Xiao, Guoyang Zeng, Zhiyuan Liu, Maosong Sun

10103: Estimating the Number of Induced Subgraphs from Incomplete Data and Neighborhood Queries
Dimitris Fotakis, Thanasis Pittas, Stratis Skoulakis

10105: MLE-Guided Parameter Search for Task Loss Minimization in Neural Sequence Modeling
Sean Welleck, Kyunghyun Cho

10106: Rethinking Graph Regularization for Graph Neural Networks
Han Yang, Kaili Ma, James Cheng

10108: A Flexible Framework for Communication-Efficient Machine Learning
Sarit Khirirat, Sindri Magnusson, Arda Aytekin, Mikael Johansson

10116: Dynamic Knowledge Graph Alignment
Yuchen Yan, Lihui Liu, Yikun Ban, Baoyu Jing, Hanghang Tong

10118: Learning Set Functions that are Sparse in Non-Orthogonal Fourier Bases
Chris Wendler, Andisheh Amrollahi, Bastian Seifert, Andreas Krause, Markus Püschel

10119: Maximum Roaming Multi-Task Learning
Lucas Pascal, Pietro Michiardi, Xavier Bost, Benoit Huet, Maria A. Zuluaga

10120: Differentially Private Clustering via Maximum Coverage
Matthew Jones, Huy Nguyen, Thy D Nguyen

10122: The Causal Learning of Retail Delinquency
Yiyan Huang, Cheuk Hang Leung, Xing Yan, Qi Wu, Nanbo Peng, Dongdong Wang, Zhixiang Huang

10128: Frugal Optimization for Cost-Related Hyperparameters
Qingyun Wu, Chi Wang, Silu Huang

10130: Content Learning with Structure-Aware Writing: A Graph-Infused Dual Conditional Variational Autoencoder for Automatic Storytelling
Meng Hsuan Yu, Juntao Li , Zhangming Chan, Dongyan Zhao, Rui Yan

10131: Unsupervised Opinion Summarization with Content Planning
Reinald Kim Amplayo, Stefanos Angelidis, Mirella Lapata

10136: A Theory of Independent Mechanisms for Extrapolation in Generative Models
Michel Besserve, Remy Sun, Dominik Janzing, Bernhard Schölkopf

10137: Data Augmentation for Abstractive Query-Focused Multi-Document Summarization
Ramakanth R Pasunuru, Asli Celikyilmaz, Michel Galley, Chenyan Xiong, Yizhe Zhang, Mohit Bansal, Jianfeng Gao

10138: Open Domain Dialogue Generation with Latent Images
Ze Yang, Wei Wu, Huang Hu, Can Xu, Wei Wang, Zhoujun Li

10141: AutoDrop: Learning Dropping Patterns to Regularize Deep Networks
Hieu Pham, Quoc Le

10143: ACMo: Angle-Calibrated Moment Methods for Stochastic Optimization
Xunpeng Huang, Runxin Xu, Hao Zhou, Zhe Wang, Zhengyang Liu, Lei Li

10145: Online Non-Monotone DR-Submodular Maximization
Kim Thang Nguyen, Abhinav Srivastav

10146: Minimum Robust Multi-Submodular Cover for Fairness
Lan N Nguyen, My T. Thai

10147: C2C-GenDA: Cluster-to-Cluster Generation for Data Augmentation of Slot Filling
Yutai Hou, Sanyuan Chen, Wanxiang Che, Cheng Chen, Ting Liu

10151: Self-Attention Attribution: Interpreting Information Interactions Inside Transformer
Yaru Hao, Li Dong, Furu Wei, Ke Xu

10152: Few-Shot Learning for Multi-Label Intent Detection
Yutai Hou, Yongkui Lai, YuShan Wu, Wanxiang Che, Ting Liu

10153: Enhanced Regularizers for Attributional Robustness
Anindya Sarkar, Anirban Sarkar, Vineeth N Balasubramanian

10160: Deep Innovation Protection: Confronting the Credit Assignment Problem in Training Heterogeneous Neural Architectures
Sebastian Risi, Kenneth O Stanley

10161: Does Explainable Artificial Intelligence Improve Human Decision-Making?
Yasmeen Alufaisan, Laura Marusich, Jonathan Bakdash, Yan Zhou, Murat Kantarcioglu

10165: Necessarily Optimal One-Sided Matchings
Hadi Hosseini, Vijay Menon, Nisarg Shah, Sujoy Sikdar

10167: Evolutionary Game Theory Squared: Evolving Agents in Endogenously Evolving Zero-Sum Games
Stratis Skoulakis, Tanner Fiez, Ryann Sim, Georgios Piliouras, Lillian Ratliff

10169: Query Training: Learning a Worse Model to Infer Better Marginals in Undirected Graphical Models with Hidden Variables
Miguel Lázaro-Gredilla, Wolfgang Lehrach, Nishad Gothoskar, Guangyao Zhou, Antoine Dedieu, Dileep George

10177: Multilingual Transfer Learning for QA Using Translation as Data Augmentation
Mihaela Bornea, Lin Pan, Sara Rosenthal, Radu Florian, Avi Sil

10180: Top-k Ranking Bayesian Optimization
Quoc Phong Nguyen, Sebastian Tay, Bryan Kian Hsiang Low, Patrick Jaillet

10185: Improved Mutual Information Estimation
Youssef Mroueh, Igor Melnyk, Pierre Dognin, Jarret Ross, Tom Sercu

10188: Meta Label Correction for Noisy Label Learning
Guoqing Zheng, Ahmed Awadallah, Susan Dumais

10192: Towards Trustworthy Predictions from Deep Neural Networks with Fast Adversarial Calibration
Christian Tomani, Florian Buettner

10193: Invertible Concept-Based Explanations for CNN Models with Non-Negative Concept Activation Vectors
Ruihan Zhang, Prashan M Madumal, Tim Miller, Krista A. Ehinger, Benjamin Rubinstein

10194: MELINDA: A Multimodal Dataset for Biomedical Experiment Method Classification
Te-Lin Wu, Shikhar Singh, Sayan Paul, Gully A Burns, Nanyun Peng

10195: Sublinear Classical and Quantum Algorithms for General Matrix Games
Tongyang Li, Chunhao Wang, Shouvanik Chakrabarti, Xiaodi Wu

10197: Segatron: Segment-Aware Transformer for Language Modeling and Understanding
He Bai, Peng Shi, Jimmy Lin, Yuqing Xie, Luchen Tan, Kun Xiong, Wen Gao, Ming Li

10202: Learning from Crowds by Modeling Common Confusions
Zhendong Chu, Jing Ma, Hongning Wang

10207: GATE: Graph Attention Transformer Encoder for Cross-Lingual Relation and Event Extraction
Wasi U Ahmad, Nanyun Peng, Kai-Wei Chang

10211: MultiTalk: A Highly-Branching Dialog Testbed for Diverse Conversations
Yao Dou, Maxwell Forbes, Ari Holtzman, Yejin Choi

10215: It Takes Two to Empathize: One to Seek and One to Provide
Mahshid Hosseini, Cornelia Caragea

10223: Submodel Decomposition Bounds for Influence Diagrams
Junkyu Lee, Radu Marinescu, Rina Dechter

10224: Paragraph-Level Commonsense Transformers with Recurrent Memory
Saadia Gabriel, Chandra Bhagavatula, Vered Shwartz, Ronan Le Bras, Maxwell Forbes, Yejin Choi

10228: Fair Influence Maximization: a Welfare Optimization Approach
Aida Rahmattalabi, Shahin Jabbari, Himabindu Lakkaraju, Phebe Vayanos, Max Izenberg, Ryan Brown , Eric Rice, Milind Tambe

10232: Bringing UMAP Closer to the Speed of Light with GPU Acceleration
Corey J Nolet, Victor Lafargue, Edward Raff, Thejaswi Nanditalte, Tim Oates, John Zedlewski, Joshua Patterson

10233: Scalable Equilibrium Computation in Multi-Agent Influence Games on Networks
Fotini Christia, Michael J Curry, Constantinos Daskalakis, Erik Demaine, John P Dickerson, MohammadTaghi Hajiaghayi, Adam Hesterberg, Marina L Knittel, Aidan Milliff

10237: Circles Are Like Ellipses, or Ellipses Are Like Circles? Measuring the Degree of Asymmetry of Static and Contextual Word Embeddings and the Implications to Representation Learning
Wei Zhang, Murray Campbell, Yang Yu, Sadhana Kumaravel

10238: Bounded Risk-Sensitive Markov Games: Forward Policy Design and Inverse Reward Learning with Iterative Reasoning and Cumulative Prospect Theory
Ran Tian, Liting Sun, Masayoshi TOMIZUKA

10252: Benchmarking Knowledge-Enhanced Commonsense Question Answering via Knowledge-to-Text Transformation
Ning Bian, Xianpei Han, Bo Chen, Le Sun

10255: Converse, Focus and Guess - Towards Multi-Document Driven Dialogue
Han Liu, Caixia Yuan, Xiaojie Wang, Yushu Yang, Huixing Jiang, Zhongyuan Wang

10256: Bandit Linear Optimization for Sequential Decision Making and Extensive-Form Games
Gabriele Farina, Robin Schmucker, Tuomas Sandholm

10263: Interpretable Sequence Classification via Discrete Optimization
Maayan Shvo, Andrew C Li, Rodrigo A Toro Icarte, Sheila A. McIlraith

10266: Defending against Backdoors in Federated Learning with Robust Learning Rate
Mustafa S Ozdayi, Murat Kantarcioglu, Yulia R. Gel

10273: BERT & Family Eat Word Salad: Experiments with Text Understanding
Ashim Gupta, Giorgi Kvernadze, Vivek Srikumar

10277: LET: Linguistic Knowledge Enhanced Graph Transformer for Chinese Short Text Matching
Boer Lyu, Lu Chen, Su Zhu, Kai Yu

10284: Model-Free Online Learning in Unknown Sequential Decision Making Problems and Games
Gabriele Farina

10288: Visual Boundary Knowledge Translation for Foreground Segmentation
Zunlei Feng, Lechao Cheng, Xinchao Wang, Xiang Wang, Ya Jie Liu, Xiangtong Du, Mingli Song

10289: Distribution Matching for Rationalization
Yongfeng Huang, Yujun Chen, Yulun Du, Zhilin Yang

10290: Dynamic Neuro-Symbolic Knowledge Graph Construction for Zero-Shot Commonsense Question Answering
Antoine Bosselut, Ronan Le Bras, Yejin Choi

10292: Stochastic Precision Ensemble: Self-Knowledge Distillation for Quantized Deep Neural Networks
Yoonho Boo, Sungho Shin, Jungwook Choi, Wonyong Sung

10297: Reinforced Multi-Teacher Selection for Knowledge Distillation
Fei Yuan, Linjun Shou, Jian Pei, Wutao Lin, Ming Gong, Yan Fu, Daxin Jiang

10300: Efficient Poverty Mapping from High Resolution Remote Sensing Images
Kumar Ayush, Burak Uzkent, Kumar Tanmay, Marshall Burke, David Lobell, Stefano Ermon

10301: Sketch and Customize: A Counterfactual Story Generator
Changying Hao, Liang Pang, Yanyan Lan, Yan Wang, Jiafeng Guo, Xueqi Cheng

10302: Deep Contextual Clinical Prediction with Reverse Distillation
Rohan S Kodialam, Rebecca Boiarsky, Justin K Lim, Aditya Sai, Neil Dixit, David Sontag

10304: Exploiting Behavioral Consistence for Universal User Representation
Jie Gu, Feng Wang, Qinghui Sun, Zhiquan Ye, Xiaoxiao Xu, Jingmin Chen, Jun Zhang

10321: Generating CCG Categories
Yufang Liu, Tao Ji, Yuanbin Wu, Man Lan

10322: Hierarchical Relational Inference

Aleksandar Stanic, Sjoerd van Steenkiste, Jürgen Schmidhuber

10323: Agent Incentives: A Causal Perspective
Tom Everitt, Ryan Carey, Eric D Langlois, Pedro Ortega, Shane Legg

10328: Near-Optimal Regret Bounds for Contextual Combinatorial Semi-Bandits with Linear Payoff Functions
Kei Takemura, Shinji Ito, Daisuke Hatano, Hanna Sumita, Takuro Fukunaga, Naonori Kakimura, Ken-ichi Kawarabayashi

10331: Tune-In: Training under Negative Environments with Interference for Attention Networks Simulating Cocktail Party Effect
Jun Wang, Max W. Y. Lam, Dan Su, Dong Yu

10332: OpEvo: An Evolutionary Method for Tensor Operator Optimization
Xiaotian Gao, Wei Cui, lintao Zhang, Mao Yang

10333: Faster Depth-Adaptive Transformers
Yijin Liu, Fandong Meng, Jie Zhou, Yufeng Chen, Jinan Xu

10336: DocParser: Hierarchical Document Structure Parsing from Renderings
Johannes Rausch, Jesus Octavio Martinez Bermudez, Fabian Bissig, Ce Zhang, Stefan Feuerriegel

10338: Adversarial Turing Patterns from Cellular Automata
Nurislam Tursynbek, Ilya Vilkoviskiy, Maria Sindeeva, Ivan Oseledets

10339: Expected Eligibility Traces
Hado van Hasselt, Sephora Madjiheurem, Matteo Hessel, Andre Barreto, David Silver, Diana Borsa

10340: Bidirectional Machine Reading Comprehension for Aspect Sentiment Triplet Extraction
Shaowei Chen, Yu Wang, Jie Liu, Yuelin Wang

10343: "Listen, Understand and Translate": Triple Supervision Decouples End-to-End Speech-to-Text Translation
Qianqian Q Dong, Rong Ye, Mingxuan Wang, Hao Zhou, Shuang Xu, Bo Xu, Lei Li

10344: DirectQE: Direct Pretraining for Machine Translation Quality Estimation
Qu Cui, Shujian Huang, Jiahuan Li, Xiang Geng, Zaixiang Zheng, Guoping Huang, Jiajun Chen

10346: Deep Bayesian Quadrature Policy Optimization
Ravi Tej Akella, Kamyar Azizzadenesheli, Mohammad Ghavamzadeh, Animashree Anandkumar, Yisong Yue

843: Abusive Language Detection in Heterogeneous Contexts: Dataset Collection and the Role of Supervised Attention
Hongyu Gong, Alberto Valido, Katherine M Ingram, Giulia Fanti, Suma Bhat, Dorothy L Espelage

1058: Learning Augmented Methods for Matching: Improving Invasive Species Management and Urban Mobility
Johan Björck, Qinru Shi, Carrie Brown-Lima, Jennifer Dean, Angela Fuller, Carla P Gomes

1081: Project RISE: Recognizing Industrial Smoke Emissions
Yen-Chia Hsu, Ting-Hao K Huang, Ting-Yao Hu, Paul Dille, Sean Prendi, Ryan Hoffman, Anastasia Tsuhlares, Jessica Pachuta, Randy Sargent, Illah Nourbakhsh

1438: Fair and Interpretable Algorithmic Hiring Using Evolutionary Many Objective Optimization
Michael Geden, Joshua Andrews

2361: Accelerating Ecological Sciences from Above: Spatial Contrastive Learning for Remote Sensing
Johan Björck, Brendan Rapazzo, Qinru Shi, Carrie Brown-Lima, Jennifer Dean, Angela Fuller, Carla P Gomes

2462: We Don't Speak the Same Language: Interpreting Polarization through Machine Translation
Ashiqur KhudaBukhsh, Rupak Sarkar, Mark Kamlet, Tom Mitchell

2820: Early Safety Warnings for Long-Distance Pipelines: A Distributed Optical Fiber Sensor Machine Learning Approach
Yiyuan Yang, Yi Li, Taojia Zhang, Yan Zhou, Haifeng Zhang

3032: Forecasting Reservoir Inflow via Recurrent Neural ODEs
Fan Zhou, Liang Li

3105: Retrieve and Revise: Improving Peptide Identification with Similar Mass Spectra
Zhengcong Fei

3133: Land Deformation Prediction via Slope-Aware Graph Neural Networks
Fan Zhou, Rongfan Li, Goce Trajcevski, Kunpeng Zhang

3631: Combining Machine Learning & Reasoning for Biodiversity Data Intelligence
Atriya Sen, Beckett Sterner, Nico Franz, Caleb Powel, Nathan Upham

3750: Harnessing Social Media to Identify Homeless Youth At-Risk of Substance Use
Zi-Yi Dou, Anamika Barman-Adhikari, Fei Fang, Amulya Yadav

3785: Intelligent Recommendations for Citizen Science

Kobi Gal, Guy Shani, Avi Segal, Darlene Cavalier, Daniel Ben Zaken

3849: Graph Learning for Inverse Landscape Genetics
Prathamesh Dharangutte, Christopher Musco

4304: Predicting Forest Fire Using Remote Sensing Data and Machine Learning
Suwei Yang, Massimo Lupascu, Kuldeep S Meel

4906: Dual-Mandate Patrols: Multi-Armed Bandits for Green Security
Lily Xu, Elizabeth Bondi, Fei Fang, Andrew Perrault, Kai Wang, Milind Tambe

5196: Goten: GPU-Outsourcing Trusted Execution of Neural Network Training and Prediction
Lucien K.L. Ng, Sherman S. M. Chow, Pui Yung Anna Woo, Yongjun Zhao

5504: Detection and Prediction of Nutrient Deficiency Stress Using Longitudinal Aerial Imagery
Saba Dadsetan, Gisele Rose, Naira Hovakimyan, Jennifer Hobbs

5972: HOT-VAE: Learning High-Order Label Correlation for Multi-LabelClassification via Attention-Based Variational Autoencoders
Wenting Zhao, Shufeng Kong, Junwen Bai, Daniel Fink, Carla P Gomes

6126: Clinical Trial of an AI-Augmented Intervention for HIV Prevention in Youth Experiencing Homelessness
Bryan Wilder, Laura Onasch-Vera, Graham Diguiseppi, Robin Petering, Chyna Hill, Amulya Yadav, Eric Rice, Milind Tambe

6172: Joint Incentive Optimization of Customer and Merchant in Mobile Payment Marketing
Li Yu, Zhengwei Wu, Ziqi Liu, Zhiqiang Zhang, Jinjie Gu, Xiaodong Zeng, Lihong Gu, Tianchi Cai

6289: Subverting Privacy-Preserving GANs: Hiding Secrets in Sanitized Images
Kang Liu, Benjamin Tan, Siddharth Garg

6513: Evidence Aware Neural Pornographic Text Identification for Child Protection
Kaisong Song, Yangyang Kang, Wei Gao, Zhe Gao, Changlong Sun, Xiaozhong Liu

6699: A Universal 2-State n-Action Adaptive Management Solver
Luz V Pascal, Marianne Akian, Sam Nicol, Iadine Chades

6902: Fairness in Influence Maximization through Randomization
Ruben Becker, Gianlorenzo D'Angelo, Sajjad Ghobadi, Hugo Gilbert

7256: K-N-MOMDPs: Towards Interpretable Solutions for Adaptive Management
Jonathan Ferrer Mestres, Thomas Dietterich, Olivier Buffet, Iadine Chades

7467: Computational Visual Ceramicology: Matching Image Outlines to Catalog Sketches

Barak Itkin, Lior Wolf, Nachum Dershowitz

7578: Prediction of Landfall Intensity, Location, and Time of a Tropical Cyclone
Sandeep Kumar, Koushik Biswas, Ashish Kumar Pandey

8076: Mitigating Political Bias in Language Models through Reinforced Calibration
Ruibo Liu, Chenyan Jia, Jason W Wei, Guangxuan Xu, Lili Wang, Soroush Vosoughi

8315: RainBench: Towards Data-Driven Global Precipitation Forecasting from Satellite Imagery
Christian A Schroeder de Witt, Catherine Tong, Valentina Zantedeschi, Daniele De Martini, Alfredo Kalaitzis, Matthew Chantry, Duncan Watson-Parris, Piotr Bilinski

8682: Predicting Flashover Occurrence Using Surrogate Temperature Data
Eugene Yujun Fu, Wai Cheong Tam, Jun Wang, Richard Peacock, Paul A Reneke, Grace Ngai, Hong Va Leong, Thomas Cleary

8710: Using Radio Archives for Low-Resource Speech Recognition: Towards an Intelligent Virtual Assistant for Illiterate Users
Moussa Doumbouya, Lisa Einstein, Chris Piech

8731: Degree Planning with PLAN-BERT: Multi-Semester Recommendation Using Future Courses of Interest
Erzhuo Shao, Shiyuan Guo, Zachary A Pardos

8774: Modeling the Field Value Variations and Field Interactions Simultaneously for Fraud Detection
Dongbo Xi, Bowen Song, Fuzhen Zhuang, Yongchun Zhu, Shuai Chen, Tianyi Zhang, Yuan Qi, Qing He

8961: Multi-Layer Networks for Ensemble Precipitation Forecasts Postprocessing
Fengyang Xu, Guanbin Li, Yunfei Du, Zhiguang Chen, Yutong Lu

8975: Minimizing Energy Use of Mixed-Fleet Public Transit for Fixed-Route Service
Amutheezan Sivagnanam, Afiya Ayman, Michael Wilbur, Philip Pugliese, Abhishek Dubey, Aron Laszka

9334: Traffic Flow Forecasting with Spatial-Temporal Graph Diffusion Network
Xiyue Zhang, Chao Huang, Yong Xu, Lianghao Xia, Peng Dai, Liefeng Bo, Junbo Zhang, Yu Zheng

9345: Real-Time Tropical Cyclone Intensity Estimation by Handling Temporally Heterogeneous Satellite Data
Boyo Chen, Buo-Fu Chen, Yun-Nung Chen

9362: Court Opinion Generation from Case Fact Description with Legal Basis
Quanzhi Li, Qiong Zhang

9414: HateXplain: A Benchmark Dataset for Explainable Hate Speech Detection
Binny Mathew, Punyajoy Saha, Seid Muhie Yimam, Chris Biemann, Pawan Goyal, Animesh Mukherjee