

AAAI-17 Accepted Papers

Main Technical Track

18: Axiomatic Characterization of Game-Theoretic Network Centralities
Oskar Skibski, Tomasz Michalak and Talal Rahwan

19: On Predictive Patent Valuation: Forecasting Patent Citations and Their Types
Xin Liu, Junchi Yan, Shuai Xiao, Xiangfeng Wang, Hongyuan Zha and Stephen Chu

23: Algorithms for Max-Min Share Fair Allocation of Indivisible Chores
Haris Aziz, Gerhard Rauchecker, Guido Schryen and Toby Walsh

24: Complexity of Manipulating Sequential Allocation
Haris Aziz, Sylvain Bouveret, Jérôme Lang and Simon Mackenzie

25: Unsupervised Learning for Lexicon-Based Classification
Jacob Eisenstein

38: Universum Prescription: Regularization using Unlabeled Data
Xiang Zhang and Yann Lecun

43: Unsupervised deep learning for optical flow estimation
Zhe Ren, Junchi Yan, Bingbing Ni, Bin Liu, Xiaokang Yang and Hongyuan Zha

51: Multiple Kernel k-means with Incomplete Kernels
Xinwang Liu, Miaomiao Li, Lei Wang, Yong Dou, Jianping Yin and En Zhu

60: A Multiview-based Parameter Free Framework for Group Detection
Xuelong Li, Mulin Chen, Feiping Nie and Qi Wang

61: Quantifying and Detecting Collective Motion by Manifold Learning
Xuelong Li, Mulin Chen and Qi Wang

67: Regularized Diffusion Process for Visual Retrieval
Song Bai, Xiang Bai, Qi Tian and Longin Jan Latecki

72: SSP: Semantic Space Projection for Knowledge Graph Embedding with Text Descriptions
Han Xiao, Minlie Huang and Xiaoyan Zhu

82: Incremental Growth of Semantic Branches on CNNs via Multi-Shot Learning
Quanshi Zhang, Ruiming Cao, Ying Nian Wu and Song-Chun Zhu

101: Solving constrained combinatorial optimisation problems via MAP inference without high-order penalties

Zhen Zhang, Qinfeng Shi, Julian McAuley, Wei Wei, Yanning Zhang, Rui Yao and Anton Van Den Hengel

107: Deterministic vs Probabilistic Methods for Searching for an Evasive Target

Sara Bernardini, Maria Fox, Derek Long and Chiara Piacentini

108: Boosting Complementary Hash Tables for Fast Nearest Neighbor Search

Xianglong Liu, Cheng Deng, Yadong Mu and Zhujin Li

111: Weakly Supervised Learning of Part Selection Model with Spatial Constraints for Fine-grained Image Classification

Xiangteng He and Yuxin Peng

114: Collective Deep Quantization for Efficient Cross-Modal Retrieval

Yue Cao, Mingsheng Long, Jianmin Wang and Shichen Liu

124: Informative Subspace Learning for Counterfactual Inference

Yale Chang and Jennifer Dy

130: Closing the Loop for Object Proposals and Edge Detection

Yao Lu and Linda Shapiro

131: Community-based Question Answering via Asymmetric Multi-Faceted Ranking Network Learning

Zhou Zhao, Hanqing Lu, Vincent W. Zheng, Deng Cai, Xiaofei He and Yueting Zhuang

134: Capturing Dependencies among Labels and Features for Multiple Emotion Tagging of Multimedia Data

Shan Wu, Shangfei Wang and Qiang Ji

138: On Learning High Dimensional Structured Single Index Models

Ravi Ganti, Nikhil Rao, Laura Balzano, Rebecca Willett and Robert Nowak

158: Unsupervised Learning of Evolving Relationships Between Literary Characters

Snigdha Chaturvedi, Mohit Iyyer and Hal Daume III

160: The Opacity of Backbones

Lane A. Hemaspaandra and David Narváez

165: Online Multi-target Tracking using Recurrent Neural Networks

Anton Milan, Hamid Rezaatofghi, Anthony Dick, Konrad Schindler and Ian Reid

172: Unsupervised Large Graph Embedding
Feiping Nie, Wei Zhu and Xuelong Li

174: Infinite Kernel Learning: Generalization Bounds and Algorithms
Yong Liu

175: Generalization Analysis for Ranking Using Integral Operator
Yong Liu

179: Learning Invariant Deep Representation for NIR-VIS Face Recognition
Ran He, Xiang Wu, Zhenan Sun and Tieniu Tan

180: Exploring Commonality and Individuality for Multi-modal Curriculum Learning
Chen Gong

182: Zero-shot Recognition via Direct Classifier Learning with Transferred Samples and Pseudo Labels
Yuchen Guo, Guiguang Ding, Jungong Han and Yue Gao

186: Self-Paced Learning: an Implicit Regularization Perspective
Yanbo Fan, Ran He, Jian Liang and Baogang Hu

189: Adaptive Proximal Average Approximation for Composite Convex Minimization
Li Shen, Wei Liu, Junzhou Huang, Yugang Jiang and Shiqian Ma

190: Asymmetric Discrete Graph Hashing
Xiaoshuang Shi, Fuyong Xing, Kaidi Xu, Manish Sapkota and Lin Yang

193: RQUERY: Rewriting Text Queries to Alleviate the Vocabulary Mismatch Problem on RDF Knowledge Bases
Saeedeh Shekarpour, Edgard Marx, Sören Auer and Amit Sheth

194: Data-driven approximations to NP-hard problems
Anton Milan, Seyed Hamid Reza Tofighi, Ravi Garg, Anthony Dick and Ian Reid

202: From Shared Subspaces to Shared Landmarks: A Robust Multi-Source Classification Approach
Sarah Erfani, Mahsa Baktashmotlag, Masud Moshtaghi, Vinh Nguyen, Christopher Leckie, James Bailey and Kotagiri Ramamohanarao

215: Long-Term Trends in the Public Perception of Artificial Intelligence
Ethan Fast and Eric Horvitz

218: Detection and Recognition of Text Embedded in Online Images via Neural Context Models

Chulmoo Kang, Gunhee Kim and Suk I. Yoo

219: Preferences Single-Peaked on a Circle

Dominik Peters and Martin Lackner

222: Regularization for Unsupervised Deep Neural Nets

Baiyang Wang and Diego Klabjan

233: Multilinear Regression for Embedded Feature Selection with Application to fMRI Analysis

Xiaonan Song and Haiping Lu

243: Add Data into Business Process Verification: bridging the gap between theory and practice

Riccardo De Masellis, Chiara Di Francescomarino, Chiara Ghidini, Marco Montali and Sergio Tessaris

251: Efficient Object Instance Search Using Fuzzy Object Matching

Tan Yu, Yuwei Wu, Sreyasee Bhattacharjee and Junsong Yuan

256: Learning Context-Specific Word/Character Embeddings

Xiaoqing Zheng, Jiangtao Feng, Yi Chen, Haoyuan Peng and Zhang Wenqiang

263: Localizing by Describing: Attribute-Guided Attention Localization for Fine-Grained Recognition

Xiao Liu, Jiang Wang, Shilei Wen, Errui Ding and Yuanqing Lin

265: Visual Object Tracking for Unmanned Aerial Vehicles: A Benchmark and New Motion Models

Siyi Li and Dit-Yan Yeung

269: The Multivariate Generalised von Mises: Inference and Applications

Alexandre Navarro, Jes Frelsen and Richard Turner

272: Collaborative User Clustering for Short Text Streams

Shangsong Liang, Zhaochun Ren, Emine Yilmaz and Evangelos Kanoulas

273: Robust manifold matrix factorization for joint clustering and feature extraction

Lefei Zhang, Qian Zhang, Bo Du, Dacheng Tao and Jane You

277: Relational Deep Learning: A Deep Latent Variable Model for Link Prediction

Hao Wang, Xingjian Shi and Dit-Yan Yeung

283: Small is Beautiful: Computing Minimal Equivalent EL Concepts

Nadeschda Nikitina and Patrick Koopmann

288: Leveraging Oriented Postures and Semantic Actions for Cross-view Human Tracking Using Sparse Camera Network

Yuanlu Xu, Xiaobai Liu, Lei Qin and Song-Chun Zhu

289: Unbiased Multivariate Correlation Analysis

Yisen Wang, Simone Romano, Nguyen Xuan Vinh, James Bailey, Xingjun Ma and Shu-Tao Xia

293: Variational Autoencoder for Semi-supervised Text Classification

Weidi Xu, Haoze Sun, Chao Deng and Ying Tan

298: Depth CNNs for RGB-D scene recognition: learning from scratch better than transferring from RGB-CNNs

Xinhang Song, Luis Herranz and Shuqiang Jiang

316: Riemannian Submanifold Tracking on Low-Rank Algebraic Variety

Qian Li and Zhichao Wong

317: Towards Better Understanding the Clothing Fashion Styles: A Multimodal Deep Learning Approach

Yihui Ma, Jia Jia, Suping Zhou, Jingtian Fu, Yejun Liu and Zijian Tong

319: Incorporating Domain Knowledge into Keyphrase Extraction

Sujatha Das Gollapalli and Xiao-Li Li

321: Multi-task Deep Learning for User Intention Understanding in Speech Interaction Systems

Yishuang Ning, Jia Jia, Zhiyong Wu, Runnan Li, Yongsheng An, Mingxing Xu, Yanfeng Wang, Helen Meng and Lianhong Cai

326: CoCoA: a Non-iterative Approach to a Local Search (A)DCOP Solver

Coen van Leeuwen and Przemyslaw Pawelczak

327: Optimal Personalized Defense Strategy Against Man-In-The-Middle Attack

Xiaohong Li, Shuxin Li, Jianye Hao, Zhiyong Feng and Bo An

334: Incorporating Knowledge Graph Embeddings into Topic Modeling

Liang Yao, Yin Zhang, Baogang Wei, Zhe Jin, Rui Zhang, Yangyang Zhang and Qinfei Chen

337: Catch'Em All: Locating Multiple Diffusion Sources in Networks with Partial Observations

Kai Zhu, Zhen Chen and Lei Ying

353: POI2Vec: Geographical Latent Representation for Predicting Future Visitors

Shanshan Feng, Gao Cong, Bo An and Yeow Meng Chee

356: Learning Implicit Tasks for Patient-Specific Risk Modeling in ICU

Nozomi Nori, Hisashi Kashima, Kazuto Yamashita, Susumu Kunisawa and Yuichi Imanaka

359: Recurrent Neural Networks with Auxiliary Labels for Cross-domain Opinion Target Extraction

Ying Ding, Jianfei Yu and Jing Jiang

363: Centralized vs. Personalized Commitments and their influence on Cooperation in Group Interactions

The Anh Han, Luis Moniz Pereira, Luis A. Martinez-Vaquero and Tom Lenaerts

365: Querying partially labelled data to improve a K-nn classifier

Vu-Linh Nguyen, Sébastien Destercke and Marie-Helene Masson

376: Efficient Hyperparameter Optimization of Deep Learning Algorithms Using Deterministic RBF Surrogates

Ilija Ilievski, Jiashi Feng, Taimoor Akhtar and Christine Shoemaker

379: Transitive Hashing Network for Heterogeneous Multimedia Retrieval

Zhangjie Cao, Mingsheng Long, Jianmin Wang and Qiang Yang

381: Fredholm Multiple Kernel Learning for Semi-Supervised Domain Adaptation

Wei Wang, Hao Wang, Chen Zhang and Gao Yang

382: Translation Prediction with Source Dependency-Based Context Representation

Kehai Chen, Tiejun Zhao, Muyun Yang and Lemao Liu

389: Ordinal Constrained Binary Code Learning for Nearest Neighbor Search

Hong Liu, Rongrong Ji, Yongjian Wu and Feiyue Huang

393: ESPACE: Accelerating Convolutional Neural Networks via Eliminating Spatial & Channel Redundancy

Shaohui Lin, Rongrong Ji, Chao Chen and Feiyue Huang

399: Neural Bag-of-Ngrams

Bofang Li, Tao Liu and Zhe Zhao

402: Query Answering in DL-Lite with Datatypes: A Non-Uniform Approach

André Hernich, Julio Lemos and Frank Wolter

412: Unsupervised Learning with Truncated Gaussian Graphical Models

Qinliang Su, Xuejun Liao, Chunyuan Li, Zhe Gan and Lawrence Carin

413: Modeling the Intensity Function of Point Process via Recurrent Neural Networks

Shuai Xiao, Junchi Yan, Xiaokang Yang, Hongyuan Zha and Stephen Chu

415: Pairwise Relationship Guided Deep Hashing for Cross-Modal Retrieval
Erkun Yang, Cheng Deng, Wei Liu, Jie Li, Dacheng Tao and Xinbo Gao

426: Twin Learning for Similarity and Clustering: A Unified Kernel Approach
Zhao Kang, Chong Peng and Qiang Cheng

433: Structure Regularized Unsupervised Discriminant Feature Analysis
Mingyu Fan, Xiaojun Chang and Dacheng Tao

434: Progressive Prediction of Student Performance in College Programs
Jie Xu, Yuli Han, Daniel Marcu and Mihaela van der Schaar

435: Finding Critical Users for Social Network Engagement: The Collapsed k-Core Problem
Fan Zhang, Ying Zhang, Lu Qin, Wenjie Zhang and Xuemin Lin

453: Towards Richer and Scalable Understanding of facts in Images
Mohamed Elhoseiny, Scott Cohen, Walter Chang, Brian Price and Ahmed Elgammal

456: Reference Based LSTM for Image Captioning
Minghai Chen, Guiguang Ding, Sicheng Zhao, Hui Chen, Jungong Han and Qiang Liu

466: Semantic Proximity Search on Heterogeneous Graph by Proximity Embedding
Zemin Liu, Vincent W. Zheng, Zhou Zhao, Fanwei Zhu, Kevin Chen-Chuan Chang, Minghui Wu and Jing Ying

491: Transfer Reinforcement Learning with Shared Dynamics
Romain Laroche and Merwan Barlier

497: Cost-Sensitive Feature Selection via F-measure Optimization Reduction
Meng Liu, Chang Xu, Luo Yong, Dacheng Tao, Chao Xu and Yonggang Wen

498: Face Hallucination with Tiny Unaligned Images by Transformative Discriminative Neural Networks
Xin Yu and Fatih Porikli

500: Beyond RPCA: Flattening Complex Noise in the Frequency Domain
Yunhe Wang, Chang Xu, Dacheng Tao and Chao Xu

506: Accelerated Vector Pruning for Optimal POMDP Solution Methods
Erwin Walraven and Matthijs T. J. Spaan

509: Abstraction in Situation Calculus Action Theories
Bita Banihashemi, Giuseppe De Giacomo and Yves Lespérance

515: A SAT-based approach for solving the modal logic S5 satisfiability problem
Thomas Caridroit, Jean Marie Lagniez, Daniel Le Berre, Tiago de Lima and Valentin Montmirail

526: Multiple Source Detection without Knowing the Underlying Propagation Model
Zheng Wang, Chaokun Wang, Jisheng Pei and Xiaojun Ye

530: Fast Generalized Distillation for Semi-supervised Domain Adaptation
Shuang Ao and Xiang Li

531: Preference Elicitation For Participatory Budgeting
Gerdus Benade, Swaprava Nath, Ariel Procaccia and Nisarg Shah

532: Checking the Consistency of Combined Qualitative Constraint Networks
Quentin Cohen-Solal, Maroua Bouzid and Alexandre Niveau

535: Exploring Normalization in Deep Residual Networks
Wenling Shang, Justin Chiu and Kihyuk Sohn

536: Phase Transitions in Heuristic Search
Eldan Cohen and J. Christopher Beck

538: An Exact Penalty Method for Binary Optimization Based on MPEC Formulation
Ganzhao Yuan and Bernard Ghanem

542: Multidimensional Scaling on Multiple Input Distance Matrices
Song Bai, Xiang Bai, Longin Jan Latecki and Qi Tian

554: Multi-view Clustering via Deep Matrix Factorization
Handong Zhao, Zhengming Ding and Yun Fu

557: Feature Selection Guided Auto-Encoder
Shuyang Wang, Zhengming Ding and Yun Fu

558: Improving Word Embeddings with Convolutional Feature Learning and Subword Information
Shaosheng Cao and Wei Lu

560: Weakly-supervised Deep Nonnegative Low-rank Model for Social Image Tag Refinement and Assignment
Zechao Li and Jinhui Tang

563: Patch Reordering: a Novel Way to Achieve Rotation and Translation Invariance in Convolutional Neural Networks

Xu Shen, Xinmei Tian, Shaoyan Sun and Dacheng Tao

570: Recurrent Attentional Topic Model

Shuangyin Li, Yu Zhang, Rong Pan, Mingzhi Mao and Yang Yang

580: Parallel Asynchronous Stochastic Variance Reduction for Nonconvex Optimization

Cong Fang and Zhouchen Lin

582: ERMMA: Expected Risk Minimization for Matrix Approximation-based Recommender Systems

Dongsheng Li, Chao Chen, Qin Lv, Li Shang, Stephen Chu and Hongyuan Zha

589: What Happens Next? Future Subevent Prediction Using Contextual Hierarchical LSTM

Linmei Hu, Juanzi Li, Liqiang Nie, Xiao-Li Li and Chao Shao

591: The Dollar Auction with Spiteful Players

Marcin Waniek, Long Tran-Thanh, Tomasz Michalak and Nicholas Jennings

593: End-to-End Spatial-Temporal Convolutional Network for Video Super-Resolution

Jun Guo and Hongyang Chao

602: Text Boxes: A fast text detector with a single deep neural network

Minghui Liao, Baoguang Shi, Xiang Bai, Xinggong Wang and Wenyu Liu

603: Should Algorithms for Random SAT and MaxSAT be Different?

Sixue Liu and Gerard de Melo

605: Maximum Reconstruction Estimation for Generative Latent-Variable Models

Yong Cheng, Yang Liu and Wei Xu

609: Non-Rigid Point Set Registration with Robust Transformation Estimation Under Manifold Regularization

Jiayi Ma, Ji Zhao, Junjun Jiang and Huabing Zhou

611: Coupling Implicit and Explicit Knowledge for Customer Volume Prediction

Jingyuan Wang, Yating Lin, Junjie Wu, Zhong Wang and Zhang Xiong

616: Heuristic Search Value Iteration for One-Sided Partially Observable Stochastic Games

Karel Horak, Branislav Bosansky and Michal Pechoucek

622: Incremental Learning the Hierarchical Softmax Function for Neural Language Models

Hao Peng, Jianxin Li, Yangqiu Song and Yaopeng Liu

631: Unsupervised Feature Learning for 3D Scene Reconstruction with Occupancy Maps

Vitor Guizilini and Fabio Ramos

632: Probabilistic Non-negative Matrix Factorization and its Robust Extensions for Topic Modeling

Minnan Luo, Feiping Nie, Xiaojun Chang, Yi Yang, Alexander Hauptmann and Qinghua Zheng

641: Associate Latent Encodings in Learning from Demonstrations

Hang Yin, Francisco S. Melo, Aude Billard and Ana Paiva

644: One-step Spectral Clustering via Dynamically Learning Affinity Matrix and Subspace

Wei He, Yonggang Li, Xiaofeng Zhu and Shichao Zhang

647: Recognising Multidimensional Euclidean Preferences

Dominik Peters

648: Factorization Bandits for Interactive Recommendation

Huazheng Wang, Qingyun Wu and Hongning Wang

649: Bayesian Skip-Gram

Oren Barkan

654: Mechanism-Aware Neural Machine for Dialogue Response Generation

Ganbin Zhou, Ping Luo, Rongyu Cao, Fen Lin, Bo Chen and Qing He

658: Learning Deep Latent Spaces for Multi-Label Classification

Chih-Kuan Yeh, Wei-Chieh Wu and Yu-Chiang Frank Wang

660: Strategic Sequences of Arguments for Persuasion Using Decision Trees

Emmanuel Hadoux and Anthony Hunter

664: OFFER: Off-Environment Reinforcement Learning

Kamil Ciosek and Shimon Whiteson

673: ProjE: Embedding Projection for Knowledge Graph Completion

Baoxu Shi and Tim Weninger

680: Learning Visual Sentiment Distributions via Augmented Conditional Probability Neural Network

Jufeng Yang, Ming Sun and Xiaoxiao Sun

681: An Artificial Agent for Robust Image Registration

Rui Liao, Shun Miao, Pierre de Tournemire, Sasa Grbic, Ali Kamen, Tommaso Mansi and Dorin Comaniciu

685: DECK: Discovering Event Composition Knowledge from Web Images for Zero-shot Event Detection and Recounting in Videos

Chuang Gan, Chen Sun and Ram Nevatia

691: Representations of Context in Recognizing the Figurative and Literal Usages of Idioms

Changsheng Liu and Rebecca Hwa

696: Scalable Feature Selection via Distributed Diversity Maximization

Mehrdad Ghadiri, Sepehr Abbasi Zadeh, Morteza Zadimoghaddam and Vahab Mirrokni

697: Cascade Subspace Clustering

Xi Peng, Jiashi Feng, Jiwen Lu, Wei-Yun Yau and Zhang Yi

699: Random Features for Shift-Invariant Kernels with Moment Matching

Weiwei Shen, Zhihui Yang and Jun Wang

703: Binary Embedding with Additive Homogeneous Kernels

Saehoon Kim and Seungjin Choi

718: Privacy-Preserving Human Activity Recognition from Extreme Low Resolution

Michael S. Ryoo, Brandon Rothrock, Charles Fleming and Hyun Jong Yang

719: Efficient Online Model Adaptation by Incremental Simplex Tableau

Zhixian Lei, Xuehan Ye, Yongcai Wang, Deying Li and Jia Xu

720: Active Learning with Cross-class Similarity Transfer

Yuchen Guo, Guiguang Ding, Yue Gao and Jungong Han

731: Joint Identification of Network Communities and Semantics via Integrative Modeling of Network Topologies and Node Contents

Dongxiao He, Zhiyong Feng, Di Jin, Xiaobao Wang and Weixiong Zhang

734: Distributed Negative Sampling for Word Embeddings

Stergios Stergiou, Zygimantas Straznickas, Rolina Wu and Kostas Tsioutsoulis

737: Regret Ratio Minimization in Multi-objective Submodular Function Maximization

Tasuku Soma and Yuichi Yoshida

741: Non-monotone DR-Submodular Function Maximization

Tasuku Soma and Yuichi Yoshida

748: CBRAP: Contextual Bandits with RANdom Projection

Xiaotian Yu, Irwin King and Michael R. Lyu

752: Schematic Invariants by Reduction to Ground Invariants
Jussi Rintanen

755: SeqGAN: Sequence Generative Adversarial Nets with Policy Gradient
Lantao Yu, Weinan Zhang, Jun Wang and Yong Yu

757: An End-to-End Spatio-Temporal Attention Model for Human Action Recognition from Skeleton Data
Sijie Song, Cuiling Lan, Junliang Xing, Wenjun Zeng and Jiaying Liu

770: Computing Least Cores of Supermodular Cooperative Games
Daisuke Hatano and Yuichi Yoshida

771: Open-Universe Weighted Model Counting
Vaishak Belle

772: Image Caption with Global-Local Attention
Linghui Li, Sheng Tang, Lixi Deng, Yongdong Zhang and Qi Tian

775: Exclusion Method for Finding Nash Equilibrium in Multiplayer Games
Kimmo Berg and Tuomas Sandholm

777: Treatment Effect Estimation with Data-Driven Variable Decomposition
Kun Kuang, Peng Cui, Bo Li, Meng Jiang, Shiqiang Yang and Fei Wang

779: Deep Manifold Learning of Symmetric Positive Definite Matrices with Application to Face Recognition
Zhen Dong, Su Jia, Chi Zhang, Mingtao Pei and Yuwei Wu

786: Knowing What To Ask: a Bayesian Active Learning Approach To The Surveying Problem
Yoad Lewenberg, Yoram Bachrach, Ulrich Paquet and Jeffrey S. Rosenschein

788: On Human Intellect and Machine Failures: Troubleshooting Integrative Machine Learning Systems
Besmira Nushi, Ece Kamar, Eric Horvitz and Donald Kossmann

795: Correlated Cascades: Compete or Cooperate
Ali Zarezade, Ali Khodadadi, Mehrdad Farajtabar, Hamid R. Rabiee and Hongyuan Zha

797: Two-dimensional PCA with F-norm minimization
Quanxue Gao

799: The Simultaneous Maze Solving Problem
André Nusser, Stefan Funke and Sabine Storandt

802: Enumerate Lasso Solutions for Feature Selection

Satoshi Hara and Takanori Maehara

818: Soft and Cost MDD Constraints

Guillaume Perez and Jean-Charles Regin

828: Learning with Feature Network and Label Network Simultaneously

Yingming Li, Ming Yang, Zenglin Xu and Zhongfei Zhang

833: Spectral Clustering with Brainstorming Process for Multi-view Data

Jeong-Woo Son, Junekey Jeon, Alex Lee and Sun-Joong Kim

837: DeepFix: Fixing Common Programming Errors by Deep Learning

Rahul Gupta, Soham Pal, Aditya Kanade and Shirish Shevade

843: ICU Mortality Prediction: A Classification Algorithm for Imbalanced Datasets

Sakyajit Bhattacharya, Vaibhav Rajan and Harsh Shrivastava

853: Validating Domains and Plans for Temporal Planning via Encoding into Infinite-State Linear Temporal Logic

Alessandro Cimatti, Andrea Micheli and Marco Roveri

860: FeaBoost: Joint Feature and Label Refinement for Semantic Segmentation

Yulei Niu, Zhiwu Lu, Songfang Huang, Xin Gao, Ji-Rong Wen and An Zhao

862: Latent Dependency Forest Models

Shanbo Chu, Yong Jiang and Kewei Tu

863: Tractable Algorithms for Approximate Nash Equilibria in Generalized Graphical Games with Tree Structure

Luis Ortiz and Mohammad Irfan

865: Understanding the Semantic Structures of Tables with a Hybrid Deep Neural Network Architecture

Kyosuke Nishida, Kugatsu Sadamitsu, Ryuichiro Higashinaka and Yoshihiro Matsuo

867: Beyond Monte Carlo Style: Playing Go with Deep Alternative Neural Network and Long-Term Evaluation

Jinzhao Wang, Wenmin Wang, Ronggang Wang and Wen Gao

871: Sparse Subspace Clustering by Learning Approximation l_0 Codes

Jun Li, Yu Kong and Yun Fu

- 872: Semantic Parsing with Neural Hybrid Trees
Raymond Hendy Susanto and Wei Lu
- 873: Efficient Dependency-Guided Named Entity Recognition
Zhanming Jie, Aldrian Obaja Muis and Wei Lu
- 874: Structural Correspondence Learning Based on Distributed Representation of Words for Cross-lingual Sentiment Classification
Nana Li, Shuangfei Zhai, Zhongfei Zhang and Boying Liu
- 876: Fans economy and all-pay auctions with proportional allocations
Yulong Zeng, Pingzhong Tang and Song Zuo
- 878: Kont: Computing Tradeoffs in Normative Multiagent Systems
Ozgur Kafali, Nirav Ajmeri and Munindar P. Singh
- 879: Learning Sparse Task Relations in Multi-Task Learning
Yu Zhang and Qiang Yang
- 880: Distant Domain Transfer Learning
Ben Tan, Yu Zhang, Sinno Jialin Pan and Qiang Yang
- 887: Saliency Estimation via Variational Auto-Encoders for Multi-Document Summarization
Piji Li, Zihao Wang, Wai Lam, Zhaochun Ren and Lidong Bing
- 897: Non-Parametric Estimation of Multiple Embeddings for Link Prediction on Dynamic Knowledge Graphs
Yi Tay, Anh Tuan Luu and Siu Cheung Hui
- 904: Extensive-Form Perfect Equilibrium Computation in Two-Player Games
Gabriele Farina and Nicola Gatti
- 907: Disarmament Games
Yuan Deng and Vincent Conitzer
- 908: Sequential Peer Prediction: Learning to Elicit Effort using Posted Prices
Yang Liu and Yiling Chen
- 909: Example-Rules Guided Deep Neural Network for Makeup Recommendation
Taleb Alashkar, Songyao Jiang, Shuyang Wang and Yun Fu
- 911: Multiwinner Approval Rules as Apportionment Methods
Markus Brill, Jean-Francois Laslier and Piotr Skowron

913: Visual Sentiment Analysis by Attending on Local Image Regions
Quanzeng You, Hailin Jin and Jiebo Luo

917: The Complexity of Stable Matchings under Substitutable Preferences
Yuan Deng, Debmalya Panigrahi and Bo Waggoner

919: Phragmén's Voting Methods and Justified Representation
Markus Brill, Rupert Freeman, Svante Janson and Martin Lackner

929: The Positronic Economist: A Computational System for Analyzing Economic Mechanisms
David Thompson, Neil Newman and Kevin Leyton-Brown

932: A Simple Bet-and-run Strategy for Speeding Up Traveling Salesperson and Minimum Vertex Cover
Tobias Friedrich, Timo Kötzing and Markus Wagner

933: CLARE: A Joint Approach to Label Classification and Tag Recommendation
Yilin Wang, Suhang Wang, Jiliang Tang, Guojun Qi, Huan Liu and Baoxin Li

934: Asynchronous Mini-batch Gradient Descent with Variance Reduction for Non-Convex Optimization
Zhouyuan Huo and Heng Huang

936: Inception-v4, Inception-ResNet and the Impact of Residual Connections on Learning
Christian Szegedy, Sergey Ioffe, Vincent Vanhoucke and Alex Alemi

940: Modeling Skewed Class Distributions by Reshaping the Concept Space
Kyle Feuz and Diane Cook

942: Accelerated Gradient Temporal Difference Learning
Yangchen Pan, Adam White and Martha White

945: Fast SSP Solvers Using Short-Sighted Labeling
Luis Pineda, Kyle Wray and Shlomo Zilberstein

948: How to Train a Compact Binary Neural Network with High Accuracy?
Wei Tang, Gang Hua and Liang Wang

951: Faster and Simpler Algorithm for Optimal Strategies of Blotto Game
Soheil Behnezhad, Sina Dehghani, Mahsa Derakhshan, Mohammadtaghi Hajiaghayi and Saeed Seddighin

954: Polynomially Bounded Logic Programs with Function Symbols: A New Decidable Class
Vernon Asuncion, Yan Zhang and Heng Zhang

956: Unsupervised Sentiment Analysis with Signed Social Networks

Kewei Cheng, Jundong Li, Jiliang Tang and Huan Liu

958: An Integrated Model for Effective Saliency Prediction

Xiaoshuai Sun, Zi Huang, Hongzhi Yin and Heng Tao Shen

963: Web-based Semantic Fragment Discovery for On-line Lingual-Visual Similarity

Xiaoshuai Sun, Jiewei Cao, Chao Li, Lei Zhu and Heng Tao Shen

964: The Efficiency of the HyperPlay Technique Over Random Sampling

Michael Schofield and Michael Thielscher

967: Top-k Hierarchical Classification

Sechan Oh

972: Reactive Dialectic Search Portfolios for MaxSAT

Carlos Ansotegui-Gil, Josep Pon Farreny, Meinolf Sellmann and Kevin Tierney

980: Denoising Criterion for Variational Auto-encoding Framework

Jiwoong Im, Sungjin Ahn, Roland Memisevic and Yoshua Bengio

981: Neural Programming by Example

Chengxun Shu and Hongyu Zhang

988: S2JSD-LSH: A Locality-Sensitive Hashing Schema for Probability Distributions

Xian-Ling Mao, Bosi Feng, Yijing Hao, Liqiang Nie and Heyan Huang

994: Distant Supervision via Prototype-based Global Representation Learning

Xianpei Han and Le Sun

998: Neural Machine Translation with Reconstruction

Zhaopeng Tu, Yang Liu, Lifeng Shang, Xiaohua Liu and Hang Li

999: Learning Non-linear Dynamics of Decision Boundaries for Maintaining Classification Performance

Atsutoshi Kumagai and Tomoharu Iwata

1002: A General Efficient Hyperparameter-free Algorithm for Convolutional Sparse Learning

Zheng Xu and Junzhou Huang

1004: Learning Latent Sentiment Scopes for Entity-level Sentiment Analysis

Hao Li and Wei Lu

1011: Near-Optimal Active Learning of Halfspaces via Query Synthesis in the Noisy Setting
Lin Chen, Hamed Hassani and Amin Karbasi

1013: An Exact Algorithm for the Maximum Weight Clique Problem in Large Graphs
Hua Jiang, Chu-Min Li and Felip Manyà

1017: Identifying Unknown Unknowns in the Open World: Representations and Policies for Guided Exploration
Himabindu Lakkaraju, Ece Kamar, Rich Caruana and Eric Horvitz

1020: Unit Dependency Graph and its Application to Arithmetic Word Problem Solving
Subhro Roy and Dan Roth

1030: Online Active Linear Regression via Thresholding
Carlos Riquelme, Ramesh Johari and Baosen Zhang

1031: Anytime Anyspace AND/OR Search for Bounding the Partition Function
Qi Lou, Alexander Ihler and Rina Dechter

1037: Pairwise HITS: Quality Estimation from Pairwise Comparisons in Creator-Evaluator Crowdsourcing Process
Takeru Sunahase, Yukino Baba and Hisashi Kashima

1040: On the Transitivity of Hypernym-hyponym Relations in Data-Driven Lexical Taxonomies
Jiaqing Liang, Yi Zhang, Yanghua Xiao, Haixun Wang, Wei Wang and Pinpin Zhu

1041: Fast Compressive Phase Retrieval under Bounded Noise
Hongyang Zhang, Shan You, Zhouchen Lin and Chao Xu

1051: Transfer Learning for Deep Learning on Graph-Structured Data
Jaekoo Lee, Hyunjae Kim, Jongsun Lee and Sungroh Yoon

1053: Discrete Personalized Ranking for Fast Collaborative Filtering from Implicit Feedback
Yan Zhang, Defu Lian and Guowu Yang

1057: Team-maxmin equilibrium: efficiency bounds and algorithms
Nicola Basilico, Andrea Celli, Giuseppe De Nittis and Nicola Gatti

1061: MPGL: An Efficient Matching Pursuit Method for Generalized LASSO
Dong Gong, Mingkui Tan, Yanning Zhang, Anton van den Hengel and Qinfeng Shi

1063: Don't Forget the Quantifiable Relationship between Words: Using Recurrent Neural Network for Short Text Topic Discovery
Heng-Yang Lu, Lu-Yao Xie, Ning Kang, Chong-Jun Wang and Jun-Yuan Xie

- 1065: Read the Silence: Well-timed Recommendation via Admixture Marked Point Process
Hideaki Kim, Tomoharu Iwata, Yasuhiro Fujiwara and Naonori Ueda
- 1066: Leveraging Saccades to Learn Smooth Pursuit: A Self-Organizing Motion Tracking Model using Restricted Boltzmann Machines
Arjun Yogeswaran and Pierre Payeur
- 1069: Volumetric ConvNets with Mixed Residual Connections for Automated Prostate Segmentation from 3D MR Images
Lequan Yu, Yang Xin, Hao Chen, Jing Qin and Pheng-Ann Heng
- 1074: Efficiently Answering Technical Questions --- A Knowledge Graph Approach
Shuo Yang, Lei Zou, Zhongyuan Wang, Jun Yan and Jirong Wen
- 1085: Efficient Sparse Low-Rank Tensor Completion using Frank-Wolfe Algorithm
Xiawei Guo, Quanming Yao and James T. Kwok
- 1095: Collaborative Dynamic Sparse Topic Regression with User Profile Evolution for Item Recommendation
Li Gao, Jia Wu, Chuan Zhou and Yue Hu
- 1125: Efficient Parameter Importance Analysis via Ablation with Surrogates
Andre Biedenkapp, Marius Lindauer, Katharina Eggenberger, Chris Fawcett, Frank Hutter and Holger Hoos
- 1137: A Riemannian Network for SPD Matrix Learning
Zhiwu Huang and Luc Van Gool
- 1139: A General Framework for Sparsity Regularized Feature Selection via Iteratively Reweighted Least Square Minimization
Hanyang Peng and Yong Fan
- 1150: Parameterised Verification of Infinite State Multi-Agent Systems via Predicate Abstraction
Panagiotis Kouvaros and Alessio Lomuscio
- 1153: I See What You See: Inferring Sensor and Policy Models of Human Real-World Motor Behavior
Felix Schmitt, Hans-Joachim Bieg, Michael Herman and Constantin A. Rothkopf
- 1154: Embedded Bandits for Large-Scale Black-Box Optimization
Abdullah Al-Dujaili and Suresh Sundaram
- 1155: Between Subgraph Isomorphism and Maximum Common Subgraph

Ruth Hoffmann, Ciaran McCreesh and Craig Reilly

1162: Fast Online Incremental Learning on Mixture Streaming Data

Yi Wang, Xin Fan, Tianzhu Wang, Maomao Min and Jiebo Luo

1163: Robust MIL-based Feature Template Learning for Object Tracking

Xiangyuan Lan, Pong Chi Yuen and Rama Chellappa

1170: Radon – Rapid Discovery of Topological Relations

Mohamed Ahmed Sherif, Kevin Dreßler, Panayiotis Smeros and Axel-Cyrille Ngonga Ngomo

1181: GLOMA: Embedding Global Information in Local Matrix Approximation Models for Collaborative Filtering

Chao Chen, Dongsheng Li, Qin Lv, Junchi Yan, Li Shang and Stephen Chu

1187: A Framework for Minimal Clustering Modification via Constraint Programming

Chia-Tung Kuo, S. S. Ravi, Thi-Bich-Hanh Dao, Christel Vrain and Ian Davidson

1190: Scalable Graph Embedding For Asymmetric Proximity

Chang Zhou, Yuqiong Liu, Xiaofei Liu, Zhongyi Liu and Jun Gao

1201: Weakly Supervised Semantic Segmentation using Superpixel Pooling Network

Suha Kwak, Seunghoon Hong and Bohyung Han

1204: Narrowing the Gap Between Saturated and Optimal Cost Partitioning for Classical Planning

Jendrik Seipp, Thomas Keller and Malte Helmert

1209: Tunable Sensitivity to Large Errors in Neural Network Training

Gil Keren, Sivan Sabato and Björn Schuller

1210: Topic Aware Neural Response Generation

Chen Xing, Wei Wu, Yu Wu, Jie Liu, Yalou Huang, Ming Zhou and Wei-Ying Ma

1216: Bilateral k-means Algorithm for Fast Co-clustering

Kun Song, Junwei Han and Feiping Nie

1221: Approximation and Parameterized Complexity of Minimax Approval Voting

Marek Cygan, Łukasz Kowalik, Arkadiusz Socała and Krzysztof Sornat

1228: The Kernel Kalman Rule - Efficient Nonparametric Inference with Recursive Least Squares

Gregor H. W. Gebhardt, Andras Kupcsik and Gerhard Neumann

1229: A Unified Model for Cross-Domain and Semi-Supervised Named Entity Recognition in Chinese Social Media
Hangfeng He and Xu Sun

1251: Optimizing Quantiles in Preference-based Markov Decision Process
Hugo Gilbert, Paul Weng and Yan Xu

1252: Group Activity Selection on Social Networks
Ayumi Igarashi, Dominik Peters and Edith Elkind

1253: Psychologically based Virtual-Suspect for Interrogative Interview Training
Moshe Bitan, Galit Nahari, Zvi Nisin, Ariel Roth and Sarit Kraus

1259: Exploiting both Vertical and Horizontal Dimensions of Feature Hierarchy for Effective Recommendation
Zhu Sun, Jie Yang, Jie Zhang and Alessandro Bozzon

1262: A Diversified Generative Latent Variable Model for WiFi-SLAM
Hao Xiong and Dacheng Tao

1267: Social Choice Under Metric Preferences: Scoring Rules and STV
Piotr Skowron and Edith Elkind

1270: Robust Loss Functions under Label Noise for Deep Neural Networks
Aritra Ghosh, Himanshu Kumar and P.S. Sastry

1277: Automatic Emphatic Information Extraction from Aligned Acoustic Data and its Application on Sentence Compression
Yanju Chen and Rong Pan

1279: Matching Node Embeddings for Graph Similarity
Giannis Nikolentzos, Polykarpos Meladianos and Michalis Vazirgiannis

1280: Nonnegative Orthogonal Graph Matching
Bo Jiang, Jin Tang and Bin Luo

1282: A Unified Convex Surrogate for the Schatten- p Norm
Chen Xu, Zhouchen Lin and Zha Hongbin

1284: Continuous Conditional Dependent Network for Structured Regression
Chao Han, Mohamed Ghalwash and Zoran Obradovic

1285: Low-rank Linear Cold-Start Recommendation from Social Data
Suvash Sedhain, Aditya Krishna Menon, Scott Sanner, Lexing Xie and Darius Braziunas

1287: What Do Multiwinner Voting Rules Do? An Experiment Over the Two-Dimensional Euclidean Domain
Edith Elkind, Piotr Faliszewski, Jean-Francois Laslier, Piotr Skowron, Arkadii Slinko and Nimrod Talmon

1289: Deep Spatio-Temporal Residual Networks for Citywide Crowd Flows Prediction
Junbo Zhang, Yu Zheng and Dekang Qi

1291: Scalable Multitask Policy Gradient Reinforcement Learning
Salam El Bsati, Haitham Bou Ammar and Matthew Taylor

1292: Psychological Forest: Predicting Human Behavior
Ori Plonsky, Ido Erev, Tamir Hazan and Moshe Tennenholtz

1301: Decentralized Planning in Stochastic Environments with Submodular Rewards
Rajiv Ranjan Kumar, Pradeep Varakantham and Akshat Kumar

1304: Learning Residual Alternating Automata
Sebastian Berndt, Maciej Liskiewicz, Matthias Lutter and Ruediger Reischuk

1312: Multi-Path Feedback Recurrent Neural Network for Scene Parsing
Xiaojie Jin, Yunpeng Chen, Zequn Jie, Jiashi Feng and Shuicheng Yan

1313: Improving Multi-Document Summarization via Text Classification
Ziqiang Cao, Wenjie Li, Sujian Li and Furu Wei

1315: Algorithms for Deciding Counting Quantifiers over Unary Predicates
Marcelo Finger and Glauber De Bona

1319: Joint Copying and Restricted Generation for Paraphrase
Ziqiang Cao, Wenjie Li, Chuwei Luo and Sujian Li

1324: Latent Smooth Skeleton Embedding
Li Wang, Qi Mao and Ivor Tsang

1330: A Two-stage Approach for Learning a Sparse Model with Sharp Excess Risk Analysis
Zhe Li, Tianbao Yang, Lijun Zhang and Rong Jin

1333: Non-additive Security Games
Sinong Wang, Fang Liu and Ness Shroff

1337: Lock-Free Optimization for Non-Convex Problems
Shen-Yi Zhao, Gong-Duo Zhang and Wu-Jun Li

1339: Self-Correcting Models for Model-Based Reinforcement Learning
Erik Talvitie

1343: Large Graph Hashing with Spectral Rotation
Feiping Nie, Di Hu and Xuelong Li

1351: Efficient Stochastic Optimization for Low-Rank Distance Metric Learning
Jie Zhang and Lijun Zhang

1352: An Analysis of Monte Carlo Tree Search
Steven James, George Konidaris and Benjamin Rosman

1357: Efficient Non-oblivious Randomized Reduction for Risk Minimization with Improved Excess Risk Guarantee
Yi Xu, Haiqin Yang, Lijun Zhang and Tianbao Yang

1361: Discriminative Semi-Supervised Dictionary Learning with Entropy Regularization for Pattern Classification
Meng Yang and Lin Chen

1379: Taming the Matthew Effect in Online Markets with Social Influence
Franco Berbeglia and Pascal Van Hentenryck

1385: Generalized Ambiguity Decompositions for Classification with Applications in Active Learning and Unsupervised Ensemble Pruning
Zhengshen Jiang, Hongzhi Liu, Bin Fu and Zhonghai Wu

1391: A Multi-task Deep Network for Person Re-identification
Weihua Chen, Xiaotang Chen, Jianguo Zhang and Kaiqi Huang

1395: A Generalized Framework of Scalable Variational Bayesian Sparse Spectrum Gaussian Process Regression Models for Big Data
Quang Minh Hoang, Trong Nghia Hoang and Bryan Kian Hsiang Low

1396: Active Search for Sparse Signals with Region Sensing
Yifei Ma, Roman Garnett and Jeff Schneider

1408: Balanced Clustering with Least Square Regression
Hanyang Liu, Junwei Han and Feiping Nie

1423: Parameter Free Large Margin Nearest Neighbor for Distance Metric Learning
Kun Song, Feiping Nie and Junwei Han

1424: Bounded Rationality of Restricted Turing Machines

Lijie Chen, Pingzhong Tang and Ruosong Wang

1429: Sparse Boltzmann Machines with Structure Learning as Applied to Text Analysis

Zhourong Chen, Nevin Zhang, Dit-Yan Yeung and Peixian Chen

1431: Local Discriminant Hyperalignment for multi-subject fMRI data alignment

Muhammad Yousefnezhad and Daoqiang Zhang

1450: Multi-view Correlated Feature Learning by Uncovering Shared Component

Xiaowei Xue, Feiping Nie, Sen Wang, Xiaojun Chang, Bela Stanic and Min Yao

1452: Learning Unitary Operators with Help From $u(n)$

Stephanie Hyland and Gunnar Ratsch

1454: Leveraging Video Descriptions to Learn Video Question Answering

Kuo-Hao Zeng, Tseng-Hung Chen, Ching-Yao Chuang, Yuan-Hong Liao, Juan Carlos Niebles and Min Sun

1455: Image Cosegmentation via Saliency-Guided Constraint Clustering with Cosine Similarity

Zhiqiang Tao, Hongfu Liu, Huazhu Fu and Yun Fu

1461: Simultaneous Clustering and Ensemble

Zhiqiang Tao, Hongfu Liu and Yun Fu

1463: Poisson Sum-Product Networks: A Deep Architecture for Tractable Multivariate Poisson Distributions

Alejandro Molina, Sriraam Natarajan and Kristian Kersting

1465: Definition Modeling: Learning to define word embeddings in natural language

Thanapon Noraset, Chen Liang, Larry Birnbaum and Doug Downey

1471: Adverse Drug Reaction Prediction with Symbolic Latent Dirichlet Allocation

Cao Xiao, Ping Zhang, W.Art Chaowalitwongse, Jianying Hu and Fei Wang

1473: Addressing Imbalance in Multi-Label Classification Using Structured Hellinger Forests

Zachary Daniels and Dimitris Metaxas

1479: Phase Transitions for Scale-Free SAT Formulas

Tobias Friedrich, Anton Krohmer, Ralf Rothenberger and Andrew Sutton

1484: Higher-Dimensional Potential Heuristics for Optimal Classical Planning

Florian Pommerening, Malte Helmert and Blai Bonet

1493: Automated Data Extraction using Predictive Program Synthesis
Mohammad Raza and Sumit Gulwani

1494: Small Representations of Big Kidney Exchange Graphs
John P. Dickerson, Aleksandr M. Kazachkov, Ariel Procaccia and Tuomas Sandholm

1496: Classification with Minimax Distance Measures
Morteza Haghir Chehreghani

1499: Let Your Photos Talk: Generating Narrative Paragraph for Photo Stream via Bidirectional Attention Recurrent Neural Networks
Yu Liu, Jianlong Fu, Tao Mei and Chang Wen Chen

1502: Polynomial optimization methods for matrix factorization
Po-Wei Wang, Chun-Liang Li and J. Zico Kolter

1507: Proportional Justified Representation
Luis Sánchez Fernández, Norberto Fernández, Jesus Fisteus, Pablo Basanta Val, Edith Elkind, Martin Lackner and Piotr Skowron

1509: LP^{MLN}, Weak Constraints, and P-log
Joohyung Lee and Zhun Yang

1518: Learning Latent Sub-events in Activity Videos Using Temporal Attention Filters
Aj Piergiovanni, Chenyou Fan and Michael S. Ryoo

1520: Teams in Online Scheduling Polls: Game-Theoretic Aspects
Robert Brederick, Jiehua Chen, Rolf Niedermeier, Svetlana Obraztsova and Nimrod Talmon

1524: Condensed Memory Networks for Clinical Diagnostic Inferencing
Aaditya Prakash, Siyuan Zhao, Sadid A. Hasan, Vivek Datla, Kathy Lee, Ashequl Qadir, Joey Liu and Oladimeji Farri

1526: Online Uncertainty Estimation Against an Adversary
Volodymyr Kuleshov and Stefano Ermon

1529: Dynamic Thresholding and Pruning for Regret Minimization
Noam Brown, Christian Kroer and Tuomas Sandholm

1532: Resource Constrained Structured Prediction
Tolga Bolukbasi, Kai-Wei Chang, Joseph Wang and Venkatesh Saligrama

1533: Estimating the Maximum Expected Value in Continuous Reinforcement Learning Problems

Carlo D'Eramo, Alessandro Nuara, Matteo Pirodda and Marcello Restelli

1540: A Deep Hierarchical Approach to Lifelong Learning in Minecraft

Tom Zahavy, Daniel J. Mankowitz, Chen Tessler, Shahar Givony and Shie Mannor

1543: Active Search in Intensionally Specified Structured Spaces

Dino Oglic, Roman Garnett and Thomas Gaertner

1545: Automated Design of Robust Mechanisms

Michael Albert, Vincent Conitzer and Peter Stone

1549: Low-Rank Factorization of Determinantal Point Processes

Mike Gartrell, Ulrich Paquet and Noam Koenigstein

1550: Improving Efficiency of SVM k-fold Cross-validation by Alpha Seeding

Zeyi Wen, Rao Kotagiri, Bin Li, Jian Chen, Yawen Chen and Rui Zhang

1553: Query-Efficient Imitation Learning for End-to-End Simulated Driving

Jiakai Zhang and Kyunghyun Cho

1556: General Bounds on Satisfiability Thresholds for Random CSPs via Fourier Analysis

Colin Wei and Stefano Ermon

1566: Ontology Materialization by Abstraction Refinement in Horn SHOIF

Birte Glimm, Yevgeny Kazakov and Trung-Kien Tran

1567: Nurturing Group-Beneficial Information-Gathering Behaviors Through Above-Threshold Criteria Setting

Igor Rochlin, Ben Grynhaus, Maytal Bremer and David Sarne

1572: Gated Neural Networks for Option Pricing: Rationality by Design

Yongxin Yang, Yu Zheng and Timothy Hospedales

1575: Collaborative Planning with Encoding of Users' High-level Strategies

Joseph Kim, Christopher Banks and Julie Shah

1582: Sparse Deep Transfer Learning for Convolutional Neural Network

Jiaming Liu, Yali Wang and Yu Qiao

1583: A Hierarchical Latent Variable Encoder-Decoder Model for Generating Dialogues

Iulian Vlad Serban, Alessandro Sordani, Ryan Lowe, Laurent Charlin, Joelle Pineau, Aaron Courville and Yoshua Bengio

1585: Bilingual Lexicon Induction From Non-Parallel Data With Minimal Supervision

Meng Zhang, Haoruo Peng, Yang Liu, Huanbo Luan and Maosong Sun

1586: Cleaning the Null Space: A Privacy Mechanism for Predictors
Ke Xu, Tongyi Cao, Swair Shah, Crystal Maung and Haim Schweitzer

1594: Complexity of the Stable Invitations Problem
Hooyeon Lee and Virginia Vassilevska Williams

1596: Alternating Back-Propagation for Generator Network
Tian Han, Yang Lu, Song-Chun Zhu and Ying Nian Wu

1601: Distant Supervision for Relation Extraction with Sentence-level Attention and Entity Descriptions
Ji Guoliang, Kang Liu and Jun Zhao

1605: Tsallis Regularized Optimal Transport and Ecological Inference
Boris Muzellec, Richard Nock, Giorgio Patrini and Frank Nielsen

1608: Attributes for Improved Attributes: A Multi-Task Network Utilizing Implicit and Explicit Relationships for Facial Attribute Classification
Emily Hand and Rama Chellappa

1618: Bootstrapping Distantly Supervised IE using Joint Learning and Small Well-structured Corpora
Lidong Bing, Bhuwan Dhingra, Kathryn Mazaitis, Jong Hyuk Park and William W. Cohen

1622: Beyond iid: Learning to Combine Non-iid Metrics for Vision Tasks
Yinghuan Shi, Wenbin Li, Yang Gao, Longbing Cao and Dinggang Shen

1623: The Option-Critic Architecture
Pierre-Luc Bacon, Jean Harb and Doina Precup

1625: Active Discriminative Text Representation Learning
Ye Zhang, Matthew Lease and Byron Wallace

1630: Efficient Ordered Combinatorial Semi-Bandits for Whole-page Recommendation
Yingfei Wang, Hua Ouyang, Chu Wang, Jianhui Chen, Tsvetan Asamov and Yi Chang

1639: Portfolio Selection via Subset Resampling
Weiwei Shen and Jun Wang

1641: Multiresolution Recurrent Neural Networks: An Application to Dialogue Response Generation

Iulian Vlad Serban, Tim Klinger, Gerald Tesauro, Kartik Talamadupula, Bowen Zhou, Yoshua Bengio and Aaron Courville

1642: Automatic Logic-based Benders Decomposition with MiniZinc
Toby Davies, Graeme Gange and Peter J. Stuckey

1652: Word Embedding based Correlation Model for Question/Answer Matching
Shen Yikang, Wenge Rong, Nan Jiang, Baolin Peng, Jie Tang and Zhang Xiong

1653: Attention Correctness: Machine Perception vs Human Annotations in Neural Image Captioning
Chenxi Liu, Junhua Mao, Fei Sha and Alan Yuille

1660: A Hybrid Collaborative Filtering Model with Deep Structure for Recommender Systems
Xin Dong, Lei Yu, Zhonghuo Wu, Yuxia Sun, Lingfeng Yuan and Fangxi Zhang

1670: Robust Word Recognition via semi-Character Recurrent Neural Network
Keisuke Sakaguchi, Kevin Duh, Matt Post and Benjamin Van Durme

1682: Additional Multi-touch Attribution for Online Advertising
Wendy Ji and Xiaoling Wang

1690: Self-Paced Multi-Task Learning
Changsheng Li, Junchi Yan, Fan Wei, Weishan Dong, Qingshan Liu and Hongyuan Zha

1699: A Nearly-Black-Box Online Algorithm for Joint Parameter and State Estimation in Temporal Models
Yusuf Erol, Yi Wu, Lei Li and Stuart Russell

1703: Lattice-Based Recurrent Neural Network Encoders for Neural Machine Translation
Jinsong Su, Zhixing Tan, Deyi Xiong, Rongrong Ji, Xiaodong Shi and Yang Liu

1710: Distinguish polarity in bag-of-words model visualization with regularized concentration
Yusheng Xie, Zhengzhang Chen, Ankit Agrawal and Alok Choudhary

1716: Crowdsourced Outcome Determination in Prediction Markets
Rupert Freeman, Sebastien Lahaie and David Pennock

1733: SCOPE: Scalable Composite Optimization for Learning on Spark
Shen-Yi Zhao, Ru Xiang, Ying-Hao Shi, Peng Gao and Wu-Jun Li

1734: A declarative approach to data-driven fact checking
Julien Leblay

1735: Optimal Pricing for Submodular Valuations with Bounded Curvature
Takanori Maehara, Yasushi Kawase, Hanna Sumita, Katsuya Tono and Ken-Ichi Kawarabayashi

1736: An Ambiguity Aversion Model For Decision Making Under Ambiguity
Wenjun Ma, Xudong Luo and Yuncheng Jiang

1740: Where to Add Actions in Human-in-the-Loop Reinforcement Learning
Travis Mandel, Yun-En Liu, Emma Brunskill and Zoran Popović

1743: Text-guided Attention Model for Image Captioning
Jonghwan Mun, Minsu Cho and Bohyung Han

1745: Neural Machine Translation Advised by Statistical Machine Translation
Xing Wang, Zhengdong Lu, Zhaopeng Tu, Hang Li, Deyi Xiong and Min Zhang

1751: Predicting Demographics of High-Resolution Geographies with Geotagged Tweets
Omar Montasser and Daniel Kifer

1753: Random-Radius Ball Method for Estimating Closeness Centrality
Wataru Inariba, Takuya Akiba and Yuichi Yoshida

1764: Linear Discriminant Analysis with Representative Feature Discovery
Gang Chen

1766: Dancing with Decision Diagrams: A Hybrid Approach to Exact Cover
Masaaki Nishino, Norihito Yasuda, Shin-Ichi Minato and Masaaki Nagata

1770: Cross-domain Ranking via Latent Space Learning
Jie Tang

1773: Trust-Sensitive Evolution of DL-Lite Knowledge Bases
Dmitriy Zheleznyakov, Evgeny Kharlamov and Ian Horrocks

1775: Selfish Knapsack
Itai Feigenbaum and Matthew P. Johnson

1777: Sampling Beats Fixed Estimate Predictors for Cloning Stochastic Behavior in Multiagent Systems
Brian Hrotenok, Byron Boots and Tucker Balch

1784: Generalization Error Bounds for Optimization Algorithms via Stability
Qi Meng, Yue Wang, Wei Chen, Taifeng Wang, Zhi-Ming Ma and Tie-Yan Liu

1788: Improving Surveillance using Cooperative Target Observation

Rashi Aswani, Sai Krishna Munnangi and Praveen Paruchuri

1794: Supervising Neural Networks with Physics and other Domain Knowledge
Russell Stewart and Stefano Ermon

1796: Inductive Pairwise Ranking: Going Beyond the $n \log(n)$ Barrier
U N Niranjan and Arun Rajkumar

1806: Asynchronous Stochastic Proximal Optimization Algorithms with Variance Reduction
Qi Meng, Wei Chen, Jingcheng Yu, Taifeng Wang, Zhi-Ming Ma and Tie-Yan Liu

1809: Network, Popularity and Social Cohesion: A Game-Theoretic Approach
Jiamou Liu and Ziheng Wei

1814: Exploration and Exploitation in Classical Planning
Nir Lipovetzky and Hector Geffner

1815: Compiling Graph Substructures into Sentential Decision Diagrams
Masaaki Nishino, Norihito Yasuda, Shin-Ichi Minato and Masaaki Nagata

1817: Low-Rank Tensor Completion with Total Variation for Visual Data Inpainting
Xutao Li, Yunming Ye Ye and Xiaofei Xu

1825: Collective Multiagent Sequential Decision Making Under Uncertainty
Nguyen Duc Thien, Akshat Kumar and Hoong Chuin Lau

1826: Column Networks for Collective Classification
Trang Pham, Truyen Tran, Dinh Phung and Svetha Venkatesh

1836: Expectile Matrix Factorization for Extreme Data Analysis
Rui Zhu, Di Niu, Linglong Kong and Zongpeng Li

1843: A Sparse Dictionary Learning Framework to Discover Discriminative Source Activations in EEG Brain Mapping
Feng Liu, Shouyi Wang, Jay Rosenberger, Jianzhong Su and Hanli Liu

1844: The Bernstein Mechanism: Function Release under Differential Privacy
Francesco Aldà and Benjamin Rubinstein

1856: Scalable Optimization of Multivariate Performance Measures in Multi-instance Multi-label Learning
Apoorv Aggarwal, Sandip Ghoshal, Ankith M S, Suhit Sinha, Ganesh Ramakrishnan, Purushottam Kar and Prateek Jain

1857: Deep Learning for Fixed Model Reusing

Yang Yang, De-Chuan Zhan, Ying Fan, Yuan Jiang and Zhi-Hua Zhou

1859: Multitask Dyadic Prediction and Its Application in Prediction of Adverse Drug-Drug Interaction

Bo Jin, Haoyu Yang, Cao Xiao, Ping Zhang, Xiaopeng Wei and Fei Wang

1860: Envy-free Mechanisms with Minimum Cuts

Reza Alijani, Mohammad Ghodsi, Masoud Seddighin, Shahab Tajik and Majid Farhadi

1862: Coupled Memory Tensor Network for Co-extraction of Aspect and Opinion Terms

Wenya Wang, Sinno Jialin Pan, Daniel Dahlmeier and Xiaokui Xiao

1867: A Framework of Learning with Imbalanced Streaming Data

Yan Yan, Tianbao Yang, Yi Yang and Jianhui Chen

1871: Improving Event Causality Recognition with Multiple Background Knowledge Sources using Multi-Column Convolutional Neural Networks

Canasai Kruengkrai, Kentaro Torisawa, Chikara Hashimoto, Julien Kloetzer, Jong-Hoon Oh and Masahiro Tanaka

1876: Achieving Sustainable Cooperation in Generalized Prisoner's Dilemma with Observation Errors

Fuuki Shigenaka, Tadashi Sekiguchi, Atsushi Iwasaki and Makoto Yokoo

1884: Context-Enriched Neural Network method for Recognizing Lexical Entailment

Kun Zhang, Enhong Chen, Qi Liu, Chuanren Liu and Guangyi Lv

1886: TaGiTeD: Predictive Task Guided Tensor Decomposition for Representation Learning from Electronic Health Records

Kai Yang, Xiang Li, Haifeng Liu, Jing Mei, Guotong Xie, Junfeng Zhao, Bing Xie and Fei Wang

1888: Minimal Undefinedness for Fuzzy Answer Sets

Mario Alviano, Giovanni Amendola and Rafael Peñaloza

1890: Prerequisite Skills for Reading Comprehension: Multi-perspective Analysis of MCTest Datasets and Systems

Saku Sugawara, Hikaru Yokono and Akiko Aizawa

1902: A BTP-Based Family of Variable Elimination Rules for Binary CSPs

Achref El Mouelhi

1904: Question Difficulty Prediction for READING Problems in Standard Tests

Zhenya Huang, Qi Liu, Enhong Chen, Hongke Zhao, Mingyong Gao, Si Wei, Yu Su and Guoping Hu

1905: Scalable algorithm for higher-order co-clustering via random sampling
Daisuke Hatano, Takuro Fukunaga, Takanori Maehara and Ken-Ichi Kawarabayashi

1908: Compressed K-means for Large-scale Clustering
Xiaobo Shen, Weiwei Liu, Ivor Tsang, Fumin Shen and Quan-Sen Sun

1925: Attentive Interactive Neural Networks for Answer Selection in Community Question Answering
Xiaodong Zhang, Sujian Li, Lei Sha and Houfeng Wang

1933: Randomized Flipping Search for Word Deletion with Constraints
Jin-Ge Yao and Xiaojun Wan

1934: Efficient Mining High Quality Phrases from Texts
Bing Li, Xiaochun Yang, Bin Wang and Wei Cui

1948: StructInf: Mining Structural Influence from Social Streams
Jing Zhang, Jie Tang, Yuanyi Zhong, Yuchen Mo, Jimeng Sun and Juanzi Li

1958: The Unusual Suspects: Deep Learning Based Mining of Interesting Entity Trivia from Knowledge Graphs
Nausheen Fatma, Manoj Kumar Chinnakotla and Manish Shrivastava

1959: Learning Heterogeneous Dictionary Pair with Feature Projection Matrix for Pedestrian Video Retrieval via Single Query Image
Xiaoke Zhu, Xiao-Yuan Jing, Fei Wu, Yunhong Wang, Wangmeng Zuo and Wei-Shi Zheng

1967: Unsupervised learning of multi-level descriptors for person re-identification
Yang Yang, Stan Li, Longyin Wen and Siwei Lyu

1969: The Computational Complexity of Weighted Greedy Matching
Argyrios Deligkas, George Mertzios and Paul Spirakis

1971: Rank Ordering Constraints Elimination with Application for Kernel Learning
Chris Ding and Ying Xie

1972: Variable Kernel Density Estimation in High-dimensional Feature Spaces
Christiaan van der Walt and Etienne Barnard

1982: Knowledge Transfer for Deep Reinforcement Learning with Hierarchical Experience Replay

Haiyan Yin and Sinno Jialin Pan

1985: Latent Dirichlet Allocation for Unsupervised Activity Analysis on an Autonomous Mobile Robot

Paul Duckworth, Muhannad Alomari, James Charles, David Hogg and Anthony Cohn

1989: Achieving privacy in the adversarial multi-armed bandit

Aristide Tossou and Christos Dimitrakakis

2002: Discover Multiple Novel Labels in Multi-Instance Multi-Label Learning

Yue Zhu, Kai-Ming Ting and Zhi-Hua Zhou

2004: Thompson Sampling For Stochastic Bandits with Graph Feedback

Aristide Tossou, Christos Dimitrakakis and Devdatt Dubhashi

2025: Optimizing Expectation with Guarantees in POMDPs

Krishnendu Chatterjee, Petr Novotný, Guillermo A. Pérez, Jean-François Raskin and Djordje Zikelic

2029: On Covering Codes and Upper Bounds for the Dimension of Simple Games

Martin Olsen

2030: Causal Discovery Using Regression-based Conditional Independence Tests

Hao Zhang and Shuigeng Zhou

2034: Deep Correlated Metric Learning for Sketch-based 3D Shape Retrieval

Guoxian Dai, Jin Xie, Fan Zhu and Yi Fang

2035: Nonlinear Dynamic Boltzmann Machines for Time Series Prediction

Sakyasingha Dasgupta and Takayuki Osogami

2037: Planar Security Games

Jiarui Gan, Bo An, Yevgeniy Vorobeychik and Brian Gauch

2040: Community Preserving Network Embedding

Xiao Wang, Peng Cui, Jing Wang, Jian Pei, Wenwu Zhu and Shiqiang Yang

2041: Revenue Maximization for Finitely Repeated Ad Auctions

Jiang Rong, Tao Qin, Bo An and Tie-Yan Liu

2049: Strategic Signaling and Free Information Disclosure in Auctions

Shani Alkoby, David Sarne and Igal Milchtaich

2052: PAC Identification of a Bandit Arm Relative to a Reward Quantile

Arghya Roy Chaudhuri and Shivaram Kalyanakrishnan

2066: Anytime Best+Depth-First Search for Bounding Marginal MAP
Radu Marinescu, Junkyu Lee, Rina Dechter and Alexander Ihler

2073: The Benefit in Free Information Disclosure When Selling Information to People
Shani Alkoby and David Sarne

2074: Solving Advanced Argumentation Problems with Answer-Set Programming
Gerhard Brewka, Martin Diller, Georg Heissenberger, Thomas Linsbichler and Stefan Woltran

2082: Graph-based Wrong IsA Relation Detection in a Large-scale Lexical Taxonomy
Jiaqing Liang, Yanghua Xiao, Yi Zhang, Seung-Won Hwang and Haixun Wang

2095: Multi-objective Influence Diagrams with Possibly Optimal Policies
Radu Marinescu, Abdul Razak and Nic Wilson

2096: Multiset Feature Learning for Highly Imbalanced Data Classification
Fei Wu, Xiao-Yuan Jing, Shiguang Shan, Wangmeng Zuo and Jing-Yu Yang

2100: Computational Issues in Time-Inconsistent Planning
Pingzhong Tang, Yifeng Teng, Zihong Wang, Shenke Xiao and Yichong Xu

2102: Ontology-Based Data Access with a Horn Fragment of Metric Temporal Logic
Sebastian Brandt, Elem Güzel Kalaycı, Roman Kontchakov, Vladislav Ryzhikov, Guohui Xiao and Michael Zakharyashev

2107: Counting Transitive Roles in Description Logics with Nominals
Víctor Gutiérrez Basulto, Jean Christoph Jung and Yazmin Ibanez-Garcia

2121: Multivariate Hawkes Processes for Large-scale Inference
Rémi Lemonnier, Kevin Scaman and Argyris Kalogeratos

2136: BattRAE: Bidimensional Attention-Based Recursive Autoencoders for Learning Bilingual
Phrase Embeddings
Biao Zhang, Deyi Xiong and Jinsong Su

2146: Fully Convolutional Neural Networks with full-scale-features for Semantic Segmentation
Tianxiang Pan, Bin Wang, Guiguang Ding and Jun-Hai Yong

2149: Multi-kernel Low-rank Dictionary Pair Learning for Multiple Features based Image
Classification
Xiaoke Zhu, Xiao-Yuan Jing, Fei Wu, Di Wu, Li Cheng, Sen Li and Ruimin Hu

2158: Solving Seven Open Problems of Offline and Online Control in Borda Elections
Marc Neveling and Jörg Rothe

2162: Learning Patch-based Dynamic Graph for Visual Tracking
Chenglong Li, Liang Lin, Wangmeng Zuo and Jin Tang

2167: Streaming Classification with Emerging New Class by Class Matrix Sketching
Xin Mu, Feida Zhu, Juan Du, Ee-Peng Lim and Zhi-Hua Zhou

2172: Video Captioning with Listwise Supervision
Yuan Liu, Xue Li and Zhongchao Shi

2179: Phrase-Based Presentation Slides Generation for Academic Papers
Sida Wang, Xiaojun Wan and Shikang Du

2183: Bounding Resource Constraint Violation Probabilities in Multi-agent MDPs
Frits de Nijs, Erwin Walraven, Mathijs M. de Weerd and Matthijs T. J. Spaan

2194: Active Video Summarization to meet the User's Preferences
Ana Garcia Del Molino, Xavier Boix and Joo-Hwee Lim

2195: Source Information Disclosure in Ontology-Based Data Integration
Michael Benedikt, Bernardo Cuenca Grau and Egor V. Kostylev

2198: Semi-supervised Adaptive Label Distribution Learning for Facial Age Estimation
Peng Hou, Xin Geng, Zeng-Wei Huo and Jia-Qi Lv

2214: Marrying Uncertainty and Time in Knowledge Graphs
Melisachew Wudage Chekol, Giuseppe Pirrò, Jörg Schönfisch and Heiner Stuckenschmidt

2221: An Efficient Approach to Model-based Hierarchical Reinforcement Learning
Zhuoru Li, Akshay Narayan and Tze-Yun Leong

2225: Deterministic Attention for Sequence-to-Sequence Constituent Parsing
Chunpeng Ma, Lemao Liu, Akihiro Tamura, Tiejun Zhao and Eiichiro Sumita

2231: Differentiating between posed and spontaneous expressions with Latent Regression
Bayesian Network
Quan Gan, Siqi Nie, Shangfei Wang and Qiang Ji

2235: Construct Safe Prediction from Multiple Regressors
Yu-Feng Li, Han-Wen Zha and Zhi-Hua Zhou

2239: Constrained Nash Equilibria in Polymatrix Games

Sunil Easaw Simon and Dominik Wojtczak

2240: Classification-based Sequential Derivative-Free Optimization

Yi-Qi Hu, Hong Qian and Yang Yu

2242: New Lower Bound for the Minimum Sum Coloring Problem

Clément Lecat, Corinne Lucet and Chu-Min Li

2246: Reasoning about Cognitive Trust in Stochastic Multiagent Systems

Xiaowei Huang and Marta Kwiatkowska

2250: Proper Proxy Scoring Rules

Jens Witkowski, Pavel Atanasov, Lyle Ungar and Andreas Krause

2253: Lifted Inference for Convex Quadratic Programs

Martin Mladenon, Leonard Kleinhans and Kristian Kersting

2255: Winner Determination in Huge Elections with MapReduce

Theresa Csar, Martin Lackner, Reinhard Pichler and Emanuel Sallinger

2262: Extending Compact Table for positive and negative table constraints

Hélène Verhaeghe, Christophe Lecoutre and Pierre Schaus

2270: Coactive Critiquing: Elicitation of Preferences and Features

Stefano Teso, Paolo Dragone and Andrea Passerini

2275: The Symbolic Interior Point Method

Martin Mladenov, Vaishak Belle and Kristian Kersting

2285: Optimizing positional scoring rules for rank aggregation

Ioannis Caragiannis, Xenophon Chatzigeorgiou, George Krimpas and Alexandros Voudouris

2286: Systematic Exploration of Larger Local Search Neighborhoods for the Minimum Vertex Cover Problem

Maximilian Katzmann and Christian Komusiewicz

2304: Algorithms for Infinitely Many-Armed Bandits with Budget Constraints

Haifang Li and Yingce Xia

2329: Fine-grained Recurrent Neural Networks for Prostate Segmentation in Ultrasound

Xin Yang, Lequan Yu, Lingyun Wu, Yi Wang, Jing Qin, Dong Ni and Pheng-Ann Heng

2330: Dominated Action Sequence Pruning for Online Black-box Planning

Yuu Jinnai and Alex Fukunaga

2335: Fast Inverse Reinforcement Learning with Interval Consistent Graph for Driving Behavior Prediction

Masamichi Shimosaka, Junichi Sato, Kazuhito Takenaka and Kentaro Hitomi

2336: Weighted bandits or: How bandits learn distorted values that are not expected

Aditya Gopalan, Prashanth L.A., Michael Fu and Steve Marcus

2339: Plan Reordering and Parallel Execution – A Parameterized Complexity View

Meysam Aghighi and Christer Bäckström

2354: Cross Network Link Prediction Using Graph Regularized Matrix Factorization

Arun Reddy Nelakurthi and Jingrui He

2355: Query Complexity of Tournament Solutions

Palash Dey

2357: On the Disruptive Effectiveness of Automated Planning for LTLf-based Trace Alignment

Giuseppe De Giacomo, Fabrizio Maria Maggi, Andrea Marrella and Fabio Patrizi

2365: Obvious strategyproofness needs monitoring for good approximations

Diodato Ferraioli and Carmine Ventre

2379: Efficient Evaluation of Answer Set Programs with External Sources Based on External Source Inlining

Christoph Redl

2387: A Theoretical Analysis of First Heuristics of Crowdsourced Entity Resolution

Arya Mazumdar and Barna Saha

2395: Incorporating Domain-Independent Planning Heuristics in Hierarchical Planning

Vikas Shivashankar, Ron Alford and David Aha

2400: Neural Models for Sequence Chunking

Feifei Zhai, Saloni Potdar, Bing Xiang and Bowen Zhou

2407: Accelerated Variance Reduced Stochastic ADMM

Yuanyuan Liu, Fanhua Shang and James Cheng

2409: Deep Hashing: A Joint Approach for Image Signature Learning

Yadong Mu

2411: Unsupervised Domain Adaptation with a Relaxed Covariate Shift Assumption

Tameem Adel, Han Zhao and Alexander Wong

2429: On the Computation of Paracoherent Answer Sets
Giovanni Amendola, Carmine Dodaro, Wolfgang Faber, Nicola Leone and Francesco Ricca

2438: Vote Until Two of You Agree: Mechanisms with Small Distortion and Sample Complexity
Stephen Gross, Elliot Anshelevich and Lirong Xia

2439: Learning Bayesian Networks with Incomplete Data by Augmentation
Tameem Adel and Cassio de Campos

2443: SAT Encodings for Distance-Based Belief Merging Operators
Sébastien Konieczny, Jean-Marie Lagniez and Pierre Marquis

2447: Explicit Defense Actions Against Test-Set Attacks
Scott Alfeld, Xiaojin Zhu and Paul Barford

2456: Convex Co-Embedding for Matrix Completion with Predictive Side Information
Yuhong Guo

2458: Policy Search with High-Dimensional Context Variables
Voot Tangkaratt, Herke van Hoof, Simone Parisi, Gerhard Neumann, Jan Peters and Masashi Sugiyama

2459: Heavy-Tailed Analogues of the Covariance Matrix for ICA
Joseph Anderson, Navin Goyal, Anupama Nandi and Luis Rademacher

2470: Unimodal Thompson Sampling for Graph-Structured Arms
Francesco Trovo, Stefano Paladino, Marcello Restelli and Nicola Gatti

2475: Label Efficient Learning by Exploiting Multi-class Output Codes
Maria-Florina Balcan, Travis Dick and Yishay Mansour

2481: Diagnosability Planning for Controllable Discrete Event Systems
Hassan Ibrahim, Philippe Dague, Alban Grastien, Laurent Simon and Lina Ye

2483: Multi-Agent Path Finding with Delay Probabilities
Hang Ma, T. K. Satish Kumar and Sven Koenig

2484: Going Beyond Primal Treewidth for (M)ILP
Robert Ganian, Sebastian Ordyniak and Ramanujan M. S.

2496: Incentivising Monitoring in Open Normative Systems
Natasha Alechina, Joseph Halpern, Ian Kash and Brian Logan

2508: Confidence-Rated Discriminative Partial Label Learning
Cai-Zhi Tang and Min-Ling Zhang

2515: The Linearization of Belief Propagation on Pairwise Markov Random Fields
Wolfgang Gatterbauer

2519: When to Reset Your Keys: Optimal Timing of Security Updates via Learning
Zizhan Zheng, Ness Shroff and Prasant Mohapatra

2524: VINet: Visual-Inertial Odometry as a Sequence-to-sequence Learning Problem
Ronald Clark, Sen Wang, Hongkai Wen, Andrew Markham and Niki Trigoni

2530: Mechanism Design for Multi-Type Housing Markets
Sujoy Sikdar, Sibel Adali and Lirong Xia

2532: Solving High-Dimensional Multi-Objective Optimization Problems with Low Effective Dimensions
Hong Qian and Yang Yu

2542: Human-Aware Plan Recognition
Hankz Hankui Zhuo

2546: On Pareto Optimality in Social Distance Games
Alkida Balliu, Dennis Olivetti and Michele Flammini

2561: Contextual RNN-GANs for Abstract Reasoning Diagram Generation
Viveka Kulharia, Arnab Ghosh, Amitabha Mukerjee, Vinay Namboodiri and Mohit Bansal

2562: Mechanism Design in Social Networks
Bin Li, Dong Hao, Dengji Zhao and Tao Zhou

2583: Entropic Causal Inference
Murat Kocaoglu, Alex Dimakis, Sriram Vishwanath and Babak Hassibi

2586: Nash Stability in Social Distance Games
Alkida Balliu, Dennis Olivetti, Michele Flammini and Giovanna Melideo

2587: Misspecified Linear Bandits
Avishek Ghosh, Sayak Ray Chowdhury and Aditya Gopalan

2588: Semi-Supervised Classifications via Elastic and Robust Embedding
Feiping Nie and Heng Huang

2589: Resource Graph Games: A Compact Representation for Games with Structured Strategy Spaces

Albert Jiang, Hau Chan and Kevin Leyton-Brown

2594: Structured Inference Networks for Nonlinear State Space Models

Rahul Krishnan, Uri Shalit and David Sontag

2595: Profit-driven Team Grouping in Social Networks

Shaojie Tang

2615: On Markov Games Played by Bayesian and Boundedly-Rational Players

Muthukumaran Chandrasekaran, Yingke Chen and Prashant Doshi

2616: On Equivalence and Inconsistency of Answer Set Programs with External Sources

Christoph Redl

2624: Selecting Sequences of Items via Submodular Maximization

Sebastian Tschiatschek, Adish Singla and Andreas Krause

2629: Novel Geometric Approach for Global Alignment of PPI Networks

Yangwei Liu, Hu Ding, Danyang Chen and Jinhui Xu

2637: Value Compression of Pattern Databases

Nathan Sturtevant, Ariel Felner and Malte Helmert

2673: Robust Visual Tracking via Local-Global Correlation Filter

Heng Fan and Jinhai Xiang

2674: Optimal Neighborhood Kernel Clustering with Multiple Kernels

Xinwang Liu, Sihang Zhou, Yueqing Wang, Miaomiao Li, Yong Dou, En Zhu and Jianping Yin

2682: Open-Vocabulary Semantic Parsing with both Distributional Statistics and Formal Knowledge

Matt Gardner and Jayant Krishnamurthy

2689: Non-negative Inductive Latent Factor Models for Discrete Dyadic Data

Piyush Rai

2693: Importance Sampling with Unequal Support

Philip Thomas and Emma Brunskill

2696: Dynamically Constructed (PO)MDPs for Adaptive Robot Planning

Shiqi Zhang, Piyush Khandelwal and Peter Stone

2704: When and why are deep networks better than shallow ones?
Hrushikesh Mhaskar, Qianli Liao and Tomaso Poggio

2712: Robust Partially-Compressed Least-Squares
Stephen Becker, Ban Kawas and Marek Petrik

2732: Robust Execution of Probabilistic Temporal Plans
Kyle Lund, Sam Dietrich, Scott Chow and James Boerkoel

2736: Logical Filtering and Smoothing: State Estimation in Partially Observable Domains
Brent Mombourquette, Christian Muise and Sheila McIlraith

2740: Video Recovery via New Sectional Trace Norm with Variation and Consistency Constraints
Zhouyuan Huo and Heng Huang

2742: Parametric Dual Maximization for Non-Convex Learning Problems
Yuxun Zhou, Zhaoyi Kang and Costas Spanos

2765: Landmark-Based Heuristics for Goal Recognition
Ramon Fraga Pereira, Nir Oren and Felipe Meneguzzi

2767: Engineering Agreement: The Naming Game with Asymmetric and Heterogeneous Agents
Jie Gao, Bo Li, Grant Schoenebeck and Fang-Yi Yu

2772: SnapNETS: Automatic Segmentation of Network Sequences with Node Labels
Sorour Amiri, Liangzhe Chen and B. Aditya Prakash

2774: Cross-domain Kernel Induction for Transfer Learning
Wei-Cheng Chang, Hanxiao Liu, Yuexin Wu and Yiming Yang

2788: SummaRuNNer: An Interpretable Recurrent Neural Network Model for Extractive Summarization
Ramesh Nallapati, Feifei Zhai and Bowen Zhou

2794: Personalized Donor-Recipient Matching for Organ Transplantation
Jinsung Yoon, Ahmed Alaa, Martin Cadeiras and Mihaela van der Schaar

2806: Geometry of Compositionality
Hongyu Gong, Suma Bhat and Pramod Viswanath

2813: Probably Approximately Efficient Combinatorial Auctions via Machine Learning
Gianluca Brero, Benjamin Lubin and Sven Seuken

2815: Grounded Action Transformation for Robot Learning in Simulation

Josiah Hanna and Peter Stone

2841: Event Video Mashup: from Hundreds of Videos to Minutes of Skeleton
Lianli Gao, Peng Wang, Jingkuan Song, Zi Huang, Jie Shao and Heng Tao Shen

2875: Disambiguating Spatial Prepositions Using Deep Convolutional Networks
Kaveh Hassani and Won-Sook Lee

2878: Ontology Mediated Queries for Probabilistic Databases
Stefan Borgwardt, Ismail Ilkan Ceylan and Thomas Lukasiewicz

2893: An improved algorithm for learning to perform exception-tolerant abduction
Mengxue Zhang, Tushar Mathew and Brendan Juba

2900: Deep Learning Quadcopter Control via Risk-Aware Active Learning
Olov Andersson, Mariusz Wzorek and Patrick Doherty

2908: Dual-Clustering Maximum Entropy with Application to Classification and Word
Embedding
Xiaolong Wang, Jingjing Wang and Chengxiang Zhai

2909: Market Pricing for Data Streams
Melika Abolhassani, Hossein Esfandiari, Mohammadtaghi Hajiaghayi, Brendan Lucier and Hadi
Yami

2933: Automatic Curriculum Graph Generation for Reinforcement Learning Agents
Maxwell Svetlik, Matteo Leonetti, Jivko Sinapov, Rishi Shah, Nick Walker and Peter Stone

2938: Playing First-Person Shooter Games with Deep Reinforcement Learning
Guillaume Lample and Devendra Singh Chaplot

2954: Local Centroids Structured Non-negative Matrix Factorization
Hongchang Gao, Feiping Nie and Heng Huang

2958: A Dynamic Window Network for CCG Supertagging
Huijia Wu, Jiajun Zhang and Chengqing Zong

2960: Enabling Dark Energy Science with Deep Generative Models of Galaxy Images
Siamak Ravanbakhsh, Francois Lanusse, Rachel Mandelbaum, Jeff Schneider and Barnabas
Póczos

2970: Hindsight Optimization for Hybrid State and Action MDPs
Aswin Raghavan, Scott Sanner, Prasad Tadepalli, Roni Kharden and Alan Fern

2975: A study of compact reserve pricing languages
Hossein Esfandiari, Vahab Mirrokni, Mohammadhossein Bateni and Saeed Seddighin

2976: Practical TBox Abduction Based on Justification Patterns
Jianfeng Du, Hai Wan and Huaguan Ma

2991: Deep Collective Inference
John Moore and Jennifer Neville

2993: Coherent Dialogue with Attention-based Language Models
Hongyuan Mei, Mohit Bansal and Matthew Walter

3000: Bridging Video Content and Comments: Synchronized Video Description with Temporal Summarization of Crowdsourced Time-sync Comments
Linli Xu and Chao Zhang

3005: Solving Indefinite Kernel Support Vector Machine with Difference of Convex Functions Programming
Haiming Xu, Hui Xue, Xiaohong Chen and Yunyun Wang

3006: Multiclass Capped p-Norm SVM for Robust Classifications
Feiping Nie, Xiaoqian Wang and Heng Huang

3009: Predicting Latent Narrative Mood using Audio and Physiologic Data
Tuka Alhanai and Mohammad Ghassemi

3015: A Unified Algorithm for One-class Structured Matrix Factorization with Side Information
Hsiang-Fu Yu, Hsin-Yuan Huang, Inderjit Dhillon and Chih-Jen Lin

3024: Using Discourse Signals for Robust Instructor Intervention Prediction
Muthu Kumar Chandrasekaran, Carrie Demmans Epp, Min-Yen Kan and Diane J. Litman

3054: Associative Memory using Dictionary Learning and Expander Decoding
Arya Mazumdar and Ankit Singh Rawat

3060: Recovering true classifier performance in positive-unlabeled learning
Shantanu Jain, Predrag Radivojac and Martha White

3061: Maximum Model Counting
Daniel J. Fremont, Markus N. Rabe and Sanjit A. Seshia

3074: Semi-supervised Multi-view Correlation Feature Learning with Application to Webpage Classification
Xiao-Yuan Jing, Fei Wu, Xiwei Dong, Shiguang Shan and Songcan Chen

3076: Learning Attributes from the Crowdsourced Relative Labels
Tian Tian and Jun Zhu

3095: JAG: Joint Assessment and Grading
Igor Labutov and Christoph Studer

3127: Bilinear Probabilistic Canonical Correlation Analysis via Hybrid Concatenations
Yang Zhou, Haiping Lu and Yiu-Ming Cheung

3151: Soft Video Parsing by Label Distribution Learning
Xin Geng and Miaogen Ling

3158: Preferential Structures for Comparative Probabilistic Reasoning
Matthew Harrison-Trainor, Wesley Holliday and Thomas Icard

3160: A Dependency-Based Neural Reordering Model for Statistical Machine Translation
Christian Hadiwinoto and Hwee Tou Ng

3161: A General Clustering Agreement Index: for Comparing Disjoint and Overlapping Clusters
Reihaneh Rabbany and Osmar Zaiane

3165: Generalized Covariate Adjustment: Controlling for Confounding and Selection Biases
Juan D. Correa and Elias Bareinboim

3174: Non-Deterministic Planning with Temporally Extended Goals: LTL over finite and infinite traces
Alberto Camacho, Eleni Triantafillou, Christian Muise, Jorge Baier and Sheila McIlraith

3190: Collaborative Company Profiling: Insights from an Employee's Perspective
Hao Lin, Hengshu Zhu, Yuan Zuo, Chen Zhu, Junjie Wu and Hui Xiong

3194: Rigging Nearly Acyclic Tournaments is Fixed-Parameter Tractable
Ramanujan M. S. and Stefan Szeider

3195: Predicting Soccer Highlights from Spatio-temporal Match Event Streams
Tom Decroos, Vladimir Dzyuba, Jan Van Haaren and Jesse Davis

3205: A Fast Algorithm to Compute Maximum k -Plexes in Social Network Analysis
Weibo Lin, Mingyu Xiao, Yuanshun Dai and Yifeng Zeng

3217: Efficient Delivery Policy to Minimize User Traffic Consumption in Guaranteed Advertising
Jia Zhang, Zheng Wang, Qian Li, Qiang Li, Xiaoming Sun, Jialin Zhang and Yanyan Lan

3223: Dynamic Action Repetition For Deep Reinforcement Learning
Aravind Srinivas, Sahil Sharma and Balaraman Ravindran

3226: DeepMIML Network
Ji Feng and Zhi-Hua Zhou

3227: Learning Discriminative Activated Simplices for Action Recognition
Chenxu Wu, Chang Ma, Chunyu Wang and Yizhou Wang

3228: Randomized Mechanisms for Selling Reserved Instances in Cloud Computing
Jia Zhang, Weidong Ma, Tao Qin, Xiaoming Sun and Tie-Yan Liu

3234: Partitioned Sampling of Public Opinions Based on Their Social Dynamics
Weiran Huang, Liang Li and Wei Chen

3293: Communication Lower Bounds for Distributed Convex Optimization : Partition Data on Features
Zihao Chen, Luo Luo and Zhihua Zhang

3310: PIVE: Per-Iteration Visualization Environment for Real-time Interactive Visualizations using Computational Methods
Hannah Kim, Jaegul Choo, Changhyun Lee, Hanseung Lee, Chandan K. Reddy and Haesun Park

3335: A Leukocyte Detection technique in blood smear images using Plant Growth Simulation Algorithm
Deblina Bhattacharjee and Anand Paul

3353: TweetFit: Fusing Sensors and Multiple Social Media for Wellness Profile Learning
Aleksandr Farseev and Tat-Seng Chua

3357: Grid Pathfinding on the 2^k Neighborhoods
Nicolás Rivera, Carlos Hernández Ulloa and Jorge Baier

Special Track on Cognitive Systems

371: Identifying Useful Inference Paths in Large Commonsense Knowledge Bases by Retrograde Analysis
Abhishek Sharma and Keith Goolsbey

514: Reactive Versus Anticipative Decision Making in a Novel Gift-Giving Game
Elias Fernández Domingos, Juan C. Burguillo-Rial and Tom Lenaerts

937: Inductive Reasoning about Ontologies Using Conceptual Spaces

Zied Bouraoui, Shoaib Jameel and Steven Schockaert

982: When does bounded-optimal metareasoning favor few cognitive systems?

Smitha Milli, Falk Lieder and Thomas Griffiths

1033: Flexible Model Induction through Heuristic Process Discovery

Pat Langley and Adam Arvay

1356: Towards Continuous Scientific Data Analysis and Hypothesis Evolution

Daniel Garijo, Yolanda Gil, Varun Ratnakar, Rajiv Mayani, Ravali Adusumilli, Hunter Boyce, Parag Mallick and Arunima Srivastava

1411: Combining Logic Abduction and Statistical Induction: Discovering Written Primitives with Human Knowledge

Wang-Zhou Dai and Zhi-Hua Zhou

1510: Imagined Visual Representations as Multimodal Embeddings

Guillem Collell, Ted Zhang and Marie Francine Moens

2011: Semi-supervised Natural Language Acquisition and Grounding for Robotic Systems

Muhannad Alomari, Paul Duckworth, David Hogg and Anthony Cohn

2054: Towards A Brain Inspired Model of Self-Awareness for Sociable Agents

Budhitama Subagdja and Ah-Hwee Tan

2241: Integrating the Cognitive with the Physical: Musical Path Planning for an Improvising Robot

Mason Bretan and Gil Weinberg

2420: Semantic Proto-Role Labeling

Adam Teichert, Adam Poliak, Benjamin Van Durme and Matthew R. Gormley

2501: Goal Operations for Cognitive Systems

Michael Cox, Dustin Dannenhauer and Sravya Kondrakunta

2541: Scanpath Complexity: Modeling Reading Effort using Gaze Information

Abhijit Mishra, Diptesh Kanojia, Seema Nagar, Kuntal Dey and Pushpak Bhattacharyya

2571: Analogical Chaining with Natural Language Instruction for Commonsense Reasoning

Joseph Blass and Kenneth Forbus

2764: ConceptNet 5.5: An Open Multilingual Graph of General Knowledge

Robert Speer, Joshua Chin and Catherine Havasi

Special Track on Computational Sustainability

573: Regularization in Hierarchical Time Series Forecasting With Application to Electricity Smart Meter Data

Souhaib Ben Taieb, Jiafan Yu, Mateus Neves Barreto and Ram Rajagopal

629: Combining Satellite Imagery and Open Data to Map Road Safety

Alameen Najjar, Shun'Ichi Kaneko and Yoshikazu Miyanaga

790: Three New Algorithms To Solve N-POMDPs

Yann Dujardin, Tom Dietterich and Iadine Chadès

823: Robust Optimization for Tree-Structured Stochastic Network Design

Xiaojian Wu, Akshat Kumar, Daniel Sheldon and Shlomo Zilberstein

1475: Species Distribution Modeling of Citizen Science Data as a Classification Problem with Class-conditional Noise

Rebecca Hutchinson, Liqiang He and Sarah Emerson

1854: SAT-based connectivity reliability estimation for power transmission grids

Leonardo Duenas-Osorio, Kuldeep S. Meel, Roger Paredes and Moshe Y. Vardi

1922: Fine-grained Car Classification for Visual Census Estimation

Timnit Gebru, Jonathan Krause, Yilun Wang, Duyun Chen, Jia Deng and Li Fei-Fei

2042: Fast-tracking Stationary MOMDPs for Adaptive Management Problems

Martin Péron, Kai Helge Becker, Peter Bartlett and Iadine Chadès

2097: Maximizing the Probability of Arriving on Time: A Practical Q-Learning Method

Zhiguang Cao, Hongliang Guo, Jie Zhang, Frans Oliehoek and Ulrich Fastenrath

2181: Matrix Factorisation for Scalable Energy Breakdown

Nipun Batra, Hongning Wang, Amarjeet Singh and Kamin Whitehouse

2303: Spatial Projection of Multiple Climate Variables using Hierarchical Multitask Learning

Andre Ricardo Goncalves, Arindam Banerjee and Fernando J. Von Zuben

2412: Deep Gaussian Process for Crop Yield Prediction Based on Remote Sensing Data

Jiaxuan You, Xiaocheng Li, Melvin Low, David Lobell and Stefano Ermon

2845: Extracting Urban Microclimates from Electricity Bills

Thuy Vu and D. Stott Parker

3171: Dynamic Optimization of Landscape Connectivity Embedding Spatial-Capture-Recapture Information

Yexiang Xue, Xiaojian Wu, Dana Morin, Bistra Dilkina, Angela Fuller, Jeffrey Andy Royle and Carla Gomes

Special Track on Integrated Systems

64: Healthy Cognitive Aging: a hybrid random vector functional-link model for the analysis of Alzheimer's disease

Peng Dai, Femida Gwadry-Sridhar, Michael Bauer, Michael Borrie and Xue Teng

1485: State Projection via AI Planning

Shirin Sohrabi, Anton Riabov and Octavian Udrea

1569: Mixed Discrete-Continuous Planning with Convex Optimization

Enrique Fernandez Gonzalez, Erez Karpas and Brian Williams

1688: Integration of Planning with Recognition for Responsive Interaction Using Classical Planners

Richard Freedman and Shlomo Zilberstein

2028: Configuration Planning with Temporal Constraints

Uwe Köckemann and Lars Karlsson

2818: Leveraging Language to Improve Object Recognition

Sz-Rung Shiang, Stephanie Rosenthal, Anatole Gershman, Jaime Carbonell and Jean Oh

2835: Learning to Predict Intent from Gaze During Robotic Hand-Eye Coordination Tasks

Yosef Razin and Karen Feigh

3119: Building Task-Oriented Dialogue Systems for Online Shopping

Zhao Yan, Nan Duan, Peng Chen, Ming Zhou, Zhoujun Li and Jianshe Zhou

Technical Demonstration Papers

318: AniDraw: When Music and Dance Meet Harmoniously

Taoran Tang, Yaohua Bu, Jia Jia, Zhiyuan Ma, Songyao Wu and Yuming You

2126: From Semantic Models to Cognitive Buildings

Joern Ploennigs and Anika Schumann

2178: Sarcasm Suite: A browser-based engine for sarcasm detection and generation

Aditya Joshi, Diptesh Kanojia, Pushpak Bhattacharyya and Mark Carman

2902: Event Reconstruction Tool for Conflict Monitoring in Social Media

Junwei Liang, Desai Fan, Han Lu, Poyao Huang, Jia Chen, Lu Jiang and Alexander Hauptmann

2947: Webly-Supervised Learning of Multimodal Video Detector

Junwei Liang, Lu Jiang and Alexander Hauptmann

3115: An Autonomous Agent to play First-Person Shooter Games

Devendra Singh Chaplot and Guillaume Lample

3373: Efficient clinical concept extraction in electronic medical records

Tanveer Syeda-Mahmood, Deepika Kakrania, Tyler Baldwin and Yufan Guo

3375: Visual MemoryQA: your personal photo and video search agent

Lu Jiang, Liangliang Cao, Yannis Kalantidis, Sachin Sudhakar Farfade and Alex Hauptmann

3376: A Virtual Personal Fashion Consultant: Learning from The Personal Preference of Fashion

Jingtian Fu, Yejun Liu, Jia Jia, Yihui Ma, Fanhang Meng and Huan Huang

3377: Integrating Verbal/Nonverbal Input into a Dynamic Response Spoken Dialogue System

Ting-Yao Hu, Chirag Raman, Salvador Medina Maza, Liangke Gui, Tadas Baltrusaitis, Robert Frederking, Louis-Philippe Morency, Alan W Black and Maxine Eskenazi

3378: Towards Musical Dialogue

Mason Bretan, Sageev Oore, Jesse Engel, Doug Eck and Larry Heck

3381: SenseRun: Real-time Running Routes Recommendation Towards Providing Pleasant Running Experiences

Jiayu Long, Jia Jia and Han Xu

3389: Natural Language Dialogue for Building and Learning Models and Structures

Ian Perera, James Allen, Lucian Galescu, Choh Man Teng, Mark Burstein, David McDonald, Jeffrey Rye and Scott Friedman

Senior Member Track Papers

3394: Latent Tree Analysis

Nevin L. Zhang and Leonard K. M. Poon

3403: Explaining Ourselves: Human-Aware Constraint Reasoning

Eugene Freuder

Blue Sky

3415: Moral Decision Making Frameworks for Artificial Intelligence

Vincent Conitzer, Walter Sinnott-Armstrong, Jana Schaich Borg, Yuan Deng and Max Kramer

Blue Sky

3417: The AI Rebellion: Changing the Narrative

David Aha and Alexandra Coman

Blue Sky

3427: Why Teaching Ethics to AI Practitioners is Important

Judy Goldsmith and Emanuelle Burton

3430: Progress and Challenges in Research on Cognitive Architectures

Pat Langley

3432: Incidental Supervision: Moving beyond Supervised Learning

Dan Roth

3435: Multi-robot Allocation of Tasks with Temporal and Ordering Constraints

Maria Gini

3436: Machine Learning for Entity Coreference Resolution

Vincent Ng

Blue Sky

3437: Getting More Out of the Exposed Structure in Constraint Programming Models of Combinatorial Problems

Gilles Pesant

3441: Survey and Synthesis of AI Research for Computational Sustainability

Douglas Fisher

Blue Sky

3443: Strategic Social Network Analysis

Tomasz Michalak, Talal Rahwan and Michael Wooldridge

What's Hot Papers (partial)

3557: What's Hot in Constraint

Laurent Michel and Michel Rueher

Student Abstracts

188: A Systematic Practice of Judging the Success of a Robotic Grasp Using Convolutional Neural Network

Pengcheng Ai

3449: Community-based Question Answering via Contextual Ranking Metric Network Learning

Hanqing Lu and Ming Kong

3459: Rethink the Link Prediction Problem in Signed Social Networks

Xiaoming Li, Hui Fang and Jie Zhang

3464: Classifier Risk Estimation under Limited Labeling Resources

Anurag Kumar and Bhiksha Raj

3467: Fast Electrical Demand Optimization under Real-time Pricing

Shan He, Mark Wallace, Campbell Wilson and Ariel Liebman

3474: Attention-based LSTM for Target-dependent Sentiment Classification

Min Yang

3489: Coordinating Human and Agent Behavior in Collective-Risk Scenarios

Elias Fernández Domingos, Juan Carlos Burguillo, Ann Nowé and Tom Lenaerts

3491: Cross-Domain Sentiment Classification via Topic-Related TrAdaBoost

Xingchang Huang, Yanghui Rao, Haoran Xie, Tak-Lam Wong and Fu Lee Wang

3496: Towards User Personality Profiling from Multiple Social Media

Kseniya Buraya, Aleksandr Farseev, Andrey Filchenkov and Tat-Seng Chua

3502: Hybridizing Interval Temporal Logics: The First Step

Przemysław Andrzej Wałęga

3510: Improving Greedy Best-First Search by Removing Unintended Search Bias

Masataro Asai and Alex Fukunaga

3511: Predicting User Roles from Computer Logs using Recurrent Neural Networks

Aaron Tuor, Sam Kaplan, Brian Hutchinson, Nicole Nichols and Sean Robinson

3521: The Complexity of Succinct Elections

Zack Fitzsimmons and Edith Hemaspaandra

3523: Discovering Conversational Dependencies between Messages in Dialogs

Wenchao Du, Pascal Poupart and Wei Xu

3533: A Privacy Mechanism for Predictors

Ke Xu, Swair Shah, Tongyi Cao, Crystal Maung and Haim Schweitzer

3537: Robust and Efficient Transfer Learning with Hidden Parameter Markov Decision Processes

Taylor Killian, George Konidaris and Finale Doshi-Velez

3538: Natural Language Person Retrieval

Tao Zhou and Jie Yu

3540: Predicting ICU Mortality via Learning about Hazard

Dae Hyun Lee and Eric Horvitz

3547: PAG2ADMG: A Novel Methodology to Enumerate Causal Graph Structures

Nishant Subramani and Doug Downey

2300: A Computational Assessment Model for the Adaptive Level of Rehabilitation Exergames for the Elderly

Hao Zhang

3042: SReN: Shape Regression Network for Comic Storyboard Extraction

Zheqi He, Yafeng Zhou, Yongtao Wang and Zhi Tang

3295: Second Order Boosted Online Regression Algorithms

Dariusz Kari

3396: ATSUM: Extracting Attractive Summaries for News Propagation on Microblogs

Fang Liu

3409: Chaotic time series prediction using a photonic reservoir computer with output feedback

Piotr Antonik

3410: Improving performance of analogue readout layers for photonic reservoir computers with online learning

Piotr Antonik

3446: A Position-Biased PageRank Algorithm for Keyphrase Extraction

Corina Florescu

3450: Evolutionary Machine Learning for RTS Game StarCraft

Lianlong Wu

3451: Redesigning Stochastic Environments For Maximized Utility

Sarah Keren

3453: Neuron Learning Machine for Representation Learning
Jia Liu

3454: Semantic Connection based Topic Evolution
Jiamiao Wang

3456: An Advising Framework for Multiagent Reinforcement Learning Systems
Felipe Leno Da Silva, Ruben Glatt and Anna Helena Reali Costa

3457: High-Resolution Mobile Fingerprint Matching via Deep Joint KNN-Triplet Embedding
Fandong Zhang and Jufu Feng

3458: Semantic Interpretation of Social Network Communities
Aishwarya N Reganti

3460: Plan Recognition Design
Reuth Mirsky, Roni Stern, Kobi Gal and Meir Kalech

3462: Wikipot: Using Wikipedia Category Network to Generate Topic Trees
Saravana Kumar, Prasath Rengarajan and Arockia Xavier Annie

3465: Semantic Representation using Explicit Concept Space Models
Walid Shalaby and Wlodek Zadrozny

3469: Dominated Action Sequence Pruning for Online Black-box Planning
Yuu Jinnai and Alex Fukunaga

3470: User Modeling Using LSTM Networks
Konrad Żoźna and Bartłomiej Romański

3472: Audio feature learning with triplet-based embedding network
Xiaoyu Qi, Deshun Yang and Xiaoou Chen

3476: Authorship Attribution with Topic Drift Model
Min Yang

3477: Detecting Review Spammer Groups
Min Yang

3478: Keyphrase Extraction with Sequential Pattern Mining
Qingren Wang, Victor Sheng and Xindong Wu

3479: Extreme Gradient Boosting and Behavioral Biometrics
Benjamin Manning

3482: Semantic Inference of Bird Songs Using Dynamic Bayesian Networks
Keisuke Daimon, Richard Hedley and Charles Taylor

3484: Preference Elicitation in DCOPs for Scheduling Devices in Smart Buildings
Atena M Tabakhi

3487: Extracting Highly Effective Features for Supervised Learning via Simultaneous Tensor Factorization
Sunny Verma, Wei Liu, Chen Wang and Liming Zhu

3495: SEAPoT-RL: Selective Exploration Algorithm for Policy Transfer in RL
Akshay Narayan, Zhuoru Li and Tze-Yun Leong

3497: Multimodal fusion of EEG and musical features in music-emotion recognition
Nattapong Thammasan, Ken-Ichi Fukui and Masayuki Numao

3498: A Sampling based Approach for Proactive Project Scheduling with Time-dependent Duration Uncertainty
Wen Song, Donghun Kang, Jie Zhang and Hui Xi

3499: Automatic Extraction of Axioms for Planning
Shuwa Miura and Alex Fukunaga

3501: Frame-based ontology alignment
Luigi Asprino, Valentina Presutti, Aldo Gangemi and Paolo Ciancarini

3503: Auto-Annotation of 3D Objects via ImageNet
Luo Huan, Wang Cheng and Li Jonathan

3512: Policy Reuse in Deep Reinforcement Learning
Ruben Glatt and Anna Helena Reali Costa

3513: Learning Options in Multiobjective Reinforcement Learning
Rodrigo Cesar Bonini, Felipe Leno Silva and Anna Helena Reali Costa

3514: A Finite Memory Automaton for Two-Armed Bernoulli Bandit Problems
Ariel Rao

3515: Cycle-Based Singleton Local Consistencies
Robert Woodward, Berthe Y. Choueiry and Christian Bessiere

3517: Predicting Demographics of High-Resolution Geographies with Geotagged Tweets
Omar Montasser and Daniel Kifer

3518: Handwriting Profiling using Generative Adversarial Networks
Arna Ghosh, Biswarup Bhattacharya and Somnath Basu Roy Chowdhury

3522: Boosting for Real-time Multivariate Time Series Stream Classification
Haishuai Wang

3524: Bootstrapping with Models: Confidence Intervals for Off-Policy Evaluation
Josiah Hanna, Peter Stone and Scott Niekum

3525: Grounded Action Transformation for Robot Learning in Simulation
Josiah Hanna and Peter Stone

3528: Coalition Structure Generation Utilizing Graphical Representation of Partition Function Games
Kazuki Nomoto, Yuko Sakurai and Makoto Yokoo

3529: Participatory Art Museum: Collecting and Modeling Crowd Opinions
Xiaoyu Zeng and Ruohan Zhang

3531: Android Malware Detection with Weak Ground Truth Data
Jordan Deloach, Doina Caragea and Xinming Ou

3542: Kernelized Evolutionary Distance Metric Learning for Semi-supervised Clustering
Wasin Kalintha, Satoshi Ono, Masayuki Numao and Ken-Ichi Fukui

3546: Robust Stable Marriage
Begum Genc, Barry O'Sullivan, Mohamed Siala and Gilles Simonin

3551: A Deep Learning Approach for Arabic Caption Generation using Roots-Words
Vasu Jindal

Doctoral Consortium Abstracts

68: Modelling Familiarity for Intelligent Personalized Social Mobilization
Zhengxiang Pan

3395: Problems in Large-scale Image Classification
Yuchen Guo

3400: An Evolutionary Algorithm Based Framework for Task Allocation in Multi-Robot Teams
Muhammad Usman Arif

3401: Improving Deep Reinforcement Learning with knowledge transfer
Ruben Glatt

3402: Structured Prediction in Time Series Data
Jia Li

3404: Project Scheduling in Complex Business Environments
Wen Song

3408: Representations for Continuous Learning
David Isele

3412: Joint Learning of Structural and Textual Features for Web Scale Event Extraction
Julia Wiedmann

3414: Problem Formulation for Accommodation Support in Plan-based Interactive Narratives
Adam Amos-Binks

3418: V for Verification: Intelligent Algorithm of Checking Reliability of Smart Systems
Anna Lukina

3420: Accelerating Multiagent Reinforcement Learning through Transfer Learning
Felipe Leno Da Silva

3423: Explainable Image Understanding using Vision and Reasoning
Somak Aditya

3425: Human-like Spatial Reasoning Formalisms
Przemysław Andrzej Wałęga

3434: Transfer of Knowledge through Collective Learning
Mohammad Rostami

3438: A Sparse Dictionary Learning Framework to Discover Discriminative Source Activations in EEG Brain Mapping
Feng Liu

3445: Scalable Nonparametric Tensor Analysis
Shandian Zhe

Innovative Applications of Artificial Intelligence Papers

Challenge

37: Automated Data Cleansing through Meta Learning
Ian Gemp, Georgios Theodorou and Mohammad Ghavamzadeh

55: Explainable Agency for Intelligent Autonomous Systems
Ben Meadows, Pat Langley and Mike Barley

Deployed Papers

3: Large-scale Occupational Skills Normalization for Online Recruitment
Faizan Javed, Phuong Hoang, Thomas Mahoney and Matt McNair

32: Phase Mapper: An AI Platform to Accelerate High Throughput Materials Discovery
Yexiang Xue, Junwen Bai, Ronan Le Bras, Brendan Rappazzo, Richard Bernstein, Johan Bjorck, Liane Longpre, Santosh Suram, R Bruce van Dover, John Gregoire and Carla Gomes

Emerging Papers

1: Crowdsensing Air Quality with Camera-enabled Mobile Devices
Zhengxiang Pan and Han Yu

2: Burst Prediction in Water Networks Using Dynamic Metrics
Gollakota Kaushik, Abinaya Manimaran, Arunchandar Vasan, Venkatesh Sarangan and Anand Sivasubramaniam

4: Optimal sequential drilling for hydrocarbon field development planning
Ruben Rodriguez Torrado, Jesus Rios and Gerald Tesauro

10: Computing Safer Driving Routes
John Krumm and Eric Horvitz

11: Using Deep and Convolutional Neural Networks for Accurate Emotion Classification on DEAP dataset.
Samarth Tripathi, Ranti D. Sharma, Sudhanshu Mittal, Samit Bhattacharya and Shrinivas Acharya

14: Constraint-Based Verification of a Mobile App Game Designed for Nudging People to Attend Cancer Screening
Arnaud Gotlieb, Marine Louarn, Mari Nygard, Tomas Ruiz-López and Sagar Sen

20: Calories Prediction from Food Images
Manal Chokr and Shady Elbassuoni

22: Predictive Off-Policy Policy Evaluation for Nonstationary Decision Problems
Philip Thomas, Mohammad Ghavamzadeh, Georgios Theodorou and Ishan Durugkar

23: Predicting Fuel Consumption and Flight Delays for Low-cost Airlines
Yuji Horiguchi, Yukino Baba, Hisashi Kashima, Masahito Suzuki, Hiroki Kayahara and Jun Maeno

24: Real-time Indoor Localization in Smart Homes using Semi-Supervised Learning
Negar Ghourchian, Michel Allegue and Doina Precup

28: UbuntuWorld 1.0 LTS - A Platform for Automated Problem Solving & Troubleshooting in the Ubuntu OS
Tathagata Chakraborti, Kartik Talamadupula, Kshitij Fadnis, Murray Campbell and Subbarao Kambhampati

30: On Designing a Social Coach to Promote Regular Aerobic Exercise
Shiwali Mohan, Anusha Venkatakrishnan, Michael Silva and Peter Pirolli

35: Dynamic Tracking and Relative Ranking of Airport Threats from News and Social Media
Rupinder Paul Khandpur, Taoran Ji, Yue Ning, Liang Zhao, Chang-Tien Lu, Erik Smith, Christopher Adams and Naren Ramakrishnan

43: Designing Better Playlists with Monte Carlo Tree Search
Elad Liebman, Piyush Khandelwal, Maytal Saar-Tsechansky and Peter Stone

44: A Machine Learning Approach for Semantic Structuring of Scientific Charts in Scholarly Documents
Rabah Al-Zaidy and C. Lee Giles

50: A Logic Based Approach to Answering Questions about Alternatives in DIY Domains
Yi Wang, Joohyung Lee and Doo Soon Kim

60: ParkUs: A Novel Vehicle Parking Detection System
Pietro Carnelli, Joy Yeh, Mahesh Sooriyabandara and Aftab Khan

Educational Advances in Artificial Intelligence

Main Track

16: EAAI-Recovering Concept Prerequisite Relations from University Course Dependencies
Chen Liang, Jianbo Ye, Zhaohui Wu and C. Lee Giles

1: EAAI-AI Projects for Computer Science Capstone Classes (Extended Abstract)
Sakire Arslan Ay and Matthew E. Taylor

2: EAAI-Online SPARC for Drawing and Animation

Elias Marcopulos, Maede Rayatidamavandi, Crisel Suarez and Yuanlin Zhang

Model AI Assignments

3: An Introduction to Monte Carlo Techniques in AI - Part II

Todd Neller

5: Implementing a Hidden Markov Model Toolkit

Sravana Reddy

7: Visual Servoing

Ariel Anders and Sertac Sertac Karaman

8: Git Planner

Joshua Eckroth

9: Organic Pathfinding

Joshua Eckroth

11: An Introduction to Behavior-Based Robotics

Joshua Ziegler, Jason Bindewald and Gilbert Peterson

17: Machine Learning for Everyone: Introduction to Classification and Clustering

Thomas Way, Paula Matuszek, Lillian Cassel, Mary-Angela Papalaskari and Carol Weiss

19: Application for AI-OCR Module: Auto Detection of Emails/Letter Images

Sheila Tejada, Bingjie Zhou, Kelsey Fargas and Elizabeth Staruk

Special Paper Track: Providing Research Experiences for Undergraduate Students (REU)

15: A Summer Research Experience in Robotics

Cindy Grimm, Alicia Lyman-Holt and William Smart

Special Paper Track: AI for Education and Outreach

20: ARTY: Fueling Creativity through Art, Robotics and Technology for Youth

Debra Burhans and Karthik Dantu

21: Exploring Artificial Intelligence Through Image Recognition

Sheila Tejada, Kelsey Fargas, Bingjie Zhou and Elizabeth Staruk

EAAI-17 NSG Challenge: Widely-Accessible AI Robotics Tasks

6: Dude, Where's My Robot?

Paul Ruvolo

10: Open-Ended Robotics Exploration Projects for Budding Researchers
David Musicant, Tom Choi and Abha Laddha

12: Cornhole: A Widely-Accessible AI Robotics Task
Nate Derbinsky and Tyler Frasca

13: Creating Serious Robots That Improve Society
Susan Imberman, Jean McManus and Gina Otts

14: Monte Carlo Localization Assignment using ROS and Raspberry Pi
Zuozhi Yang and Todd Neller

22: An Image Wherever You Look! Making vision just another sensor for AI/Robotics projects
Andy Zhang, John Lee, Ciente Jones and Zachary Dodds