AAAI-19 Accepted Papers – Main Technical Track

(The following list includes all accepted papers for the main track of AAAI-19. The list is sorted according to submission number order. Titles and spelling may not be final. Final titles will be reflected in the final program and proceedings according to what is submitted by authors at the camera-ready copy deadline.)

9: CircConv: A Structured Convolution with Low Complexity
Siyu Liao ()*; Bo Yuan (Rutgers University)

40: Deep Single-View 3D Object Reconstruction with Visual Hull Embedding
Hanqing Wang (Beijing Institute of Technology)*; Jiaolong Yang (Microsoft Research Asia (MSRA)); Wei Liang (Beijing Institute of Technology); Xin Tong (Microsoft)

56: On the Optimal Efficiency of Cost-Algebraic A*
Robert Holte (University of Alberta)*; Sandra Zilles (Regina)

61: Spatial-Temporal Person Re-identification
Guangcong Wang (Sun Yat-Sen University); Jian-Huang Lai (Sun Yat-sen University)*; Peigen Huang (Sun Yat-sen University); Xiao-Hua Xie (Sun Yat-sen University)

65: Look Across Elapse: Disentangled Representation Learning and Photorealistic Cross-Age Face Synthesis for Age-Invariant Face Recognition
Jian Zhao (National University of Singapore)*; Yu Cheng (National University of Singapore); Yi Cheng (Panasonic); Yang Yang (National University of Singapore); Fang Zhao (Inception Institute of Artificial Intelligence); Jianshu Li (NUS); Hengzhu Liu (National University of Defense Technology); Yan Shuicheng (National University of Singapore); Jiashi Feng (NUS)

74: Transferable Curriculum for Weakly-Supervised Domain Adaptation
Yang Shu (Tsinghua University); Zhangjie Cao (Tsinghua University); Mingsheng Long (Tsinghua University)*; Jianmin Wang ("Tsinghua University, China")

76: Differential Networks for Visual Question Answering
Chenfei Wu (Beijing University of Posts and Telecommunications)*; Jinlai Liu (Beijing University of Posts and Telecommunications); Xiaojie Wang (Beijing University of Posts and Telecommunications); Ruifan Li (Beijing University of Posts and Telecommunications)

81: PhoneMD: Learning to Diagnose Parkinson's Disease from Smartphone Data
Patrick Schwab (ETH Zurich)*; Walter Karlen (ETH Zurich)

83: Fairly Allocating Many Goods with Few Queries
Hoon Oh (Carnegie Mellon University); Ariel D Procaccia (Carnegie Mellon University)*; Warut Suksompong (Stanford University)

115: Disjunctive Normal Form for Multi-Agent Modal Logics Based on Logically Separability

Liangda Fang (Jinan University)*; Kewen Wang (Griffith University, Australia); Zhe Wang (Griffith University); Ximing Wen (Guangdong Institute of Public Administration)

119: Weighted Channel Dropout for Regularization of Deep Convolutional Neural Network
Saihui Hou (University of Science and Technology of China); Zilei Wang (University of Science and Technology of China)*

134: Be Inaccurate but don't be Indecisive: How Error Distribution Can Affect User Experience
Rafael Padovani (Universidade Federal de Viçosa); Lucas Ferreira (University of California, Santa Cruz); Levi H. S. Lelis (Universidade Federal de Viçosa)*

135: Evolving Action Abstractionsfor Real-Time Planning in Extensive-Form Games
Julian Mariño (Universidade de São Paulo)*; Rubens Moraes (Universidade Federal de Viçosa); Claudio Toledo (University of São Paulo); Levi H. S. Lelis (Universidade Federal de Viçosa)

136: No-reference Image Quality Assessment with Reinforcement Recursive List-wise Ranking
Jie Gu (National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences)*; Gaofeng Meng (Chinese Academy of Sciences); Cheng Da (National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences); SHIMING XIANG (Chinese Academy of Sciences, China); Chunhong Pan (Institute of Automation, Chinese Academy of Sciences)

141: Zero-Shot Object Detection with Textual Descriptions
Zhihui Li (University of New South Wales)*; Lina Yao (UNSW); salil kanhere (UNSW Sydney); Xianzhi Wang (UNSW); Xiaoqin Zhang (-); Huaxiang Zhang (Shandong Normal University)

142: Leveraging Web Semantic Knowledge in Word Representation Learning
Haoyan Liu (Beihang University)*; Lei Fang (Microsoft); Jian-Guang Lou (Microsoft); Zhoujun Li (Beihang University)

143: Pareto Optimal Allocation under Compact Uncertain Preferences
Haris Aziz (UNSW Sydney)*; Peter Biro (Hungarian Academy of Sciences); Ronald de Haan (University of Amsterdam); Bahar Rastegari (Bristol University)

149: FANDA: A Novel Approach to Perform Follow-up Query Analysis
Qian Liu (Beihang University)*; Bei Chen (Microsoft Research); Jian-Guang Lou (Microsoft); Ge Jin (Peking University); Dongmei Zhang (Microsoft Research)

166: Mirroring Human Manipulation Actions to Robots with Functional Equivalence
Hangxin Liu (University of California, Los Angeles)*; Chi Zhang (University of California, Los Angeles); Yixin Zhu (UCLA); Chenfanfu Jiang (University of Pennsylvania); Song-Chun Zhu (UCLA)

176: Object Detection based on Region Decomposition and Assembly
Seung-Hwan Bae (Incheon National University)*

180: Talking Face Generation by Adversarially Disentangled Audio-Visual Representation
Hang Zhou (The Chinese University of Hong Kong)*; Yu Liu (The Chinese University of Hong Kong); Ziwei Liu (The Chinese University of Hong Kong); Ping Luo (The Chinese University of Hong Kong); Xiaogang Wang (Chinese University of Hong Kong, Hong Kong)

183: Weighted abstract dialectical frameworks through the lens of approximation fixpoint theory
Bart Bogaerts (KU Leuven)*

188: Low-Distortion Social Welfare Functions
Gerdus Benade (CMU); Ariel D Procaccia (Carnegie Mellon University)*; Mingda Qiao (Tsinghua University)

189: MetaStyle: Three-Way Trade-Off Among Speed, Flexibility and Quality in Neural Style Transfer
Chi Zhang (University of California, Los Angeles)*; Yixin Zhu (UCLA); Song-Chun Zhu (UCLA)

209: Word Embedding as Maximum A Posteriori Estimation
Shoaib Jameel (University of Kent)*; Zihao Fu (The Chinese University of Hong Kong); Bei Shi (Tencent AI Lab); Wai Lam (The Chinese University of Hong Kong); Steven Schockaert (Cardiff University)

231: Blameworthiness in Strategic Games
Pavel Naumov (Claremont McKenna College)*; Jia Tao (Lafayette College)

233: Disentangled Variational Representation for Heterogeneous Face Recognition
Xiang Wu (Institue of Automation, Chinese Academy of Science); Huaibo Huang (University of Chinese Academy of Sciences); Vishal Patel (Johns Hopkins University)*; Ran He (Institute of Automation, Chinese Academy of Sciences); Zhenan Sun (Chinese of Academy of Sciences)

234: Learning Resolution-Invariant Deep Representations for Person Re-Identification
Yun-Chun Chen (National Taiwan University); Yu-Jhe Li (National Taiwan University)*; Xiaofei Du (Umbo Computer Vision); Yu-Chiang Frank Wang (National Taiwan University)

235: Sharper Generalization Bound for the Divide-and-Conquer Ridge Regression
Shusen Wang (Stevens Institute of Technology)*

236: CAPNet: Continuous Approximation Projection for 3D Point Cloud Reconstruction Using 2D Supervision
Navaneet K L (Indian Institute of Science)*; Priyanka Mandikal (Indian Institute of Science); Mayank Agarwal (BITS Pilani); Venkatesh Babu RADHAKRISHNAN (Indian Institute of Science)

246: Single-Label Multi-Class Image Classification by Deep Logistic Regression

QI DONG (QMUL)*; Xiatian Zhu (Queen Mary University, London, UK); Shaogang Gong (Queen Mary University of London)

272: Disjoint Label Space Transfer Learning with Common Factorised Space
Xiaobin Chang (Queen Mary University London)*; Yongxin Yang (University of Edinburgh); Tao Xiang (Queen Mary, University of London, UK); Timothy Hospedales (Edinburgh University)

277: Revisiting Spatial-Temporal Similarity: A Deep Learning Framework for Traffic Prediction
Huaxiu Yao (Pennsylvania State University)*; Xianfeng Tang (The Pennsylvania State University); Hua Wei (Pennsylvania State University); Guanjie Zheng (Pennsylvania State University); Zhenhui (Jessie) Li (Penn State University)

289: Improving Hypernymy Prediction via Taxonomy Enhanced Adversarial Learning
Chengyu Wang (East China Normal University)*; Xiaofeng He (East China Normal University); Aoying Zhou (East China Normal University)

298: DeepChannel: Salience Estimation by Contrastive Learning for Extractive Document Summarization
Jiaxin Shi (Tsinghua University)*; Chen Liang (Tsinghua University); Lei Hou (Tsinghua University); Juanzi Li (Tsinghua University); Hanwang Zhang (Nanyang Technological University); Zhiyuan Liu (Tsinghua University)

305: Deep Recurrent Survival Analysis
Kan Ren (Shanghai Jiao Tong University)*; Jiarui Qin (Shanghai Jiao Tong University); Lei Zheng (Shanghai Jiao Tong University); Zhengyu Yang (Shanghai Jiao Tong University); Weinan Zhang (John Hopcroft Center, Shanghai Jiao Tong University); Lin Qiu (Shanghai Jiao Tong University); Yong Yu (Shanghai Jiao Tong University)

314: Safe Partial Diagnosis from Normal Observations
Roni Stern (BGU)*; Brendan Juba (WASHINGTON UNIVERSITY ST LOUIS)

317: Augmenting Markov Decision Processes with Advising
Loïs Vanhée (Université de Caen)*; Laurent Jeanpierre (Université de Caen); Abdel-Illah Mouaddib (University of Caen Normandy)

322: Attention-based Multi-Context Guiding for Few-Shot Semantic Segmentation
Tao Hu (University of Amsterdam); Pengwan Yang (Peking University); Chiliang Zhang (Tsinghua University); Gang Yu (Face++); Yadong Mu (Peking University)*; Cees Snoek (University of Amsterdam)

323: Deep Video Frame Interpolation using Cyclic Frame Generation
Yu-Lun Liu (National Taiwan University; Academia Sinica; MediaTek)*; Yi-Tung Liao (National Taiwan University; Academia Sinica); Yen-Yu Lin (Academia Sinica); Yung-Yu Chuang (National Taiwan University)

325: Multi-view Information-theoretic Co-clustering for Co-occurrence Data
Xu Peng (Jiangnan University)*; Zhaohong Deng (Jiangnan University, China); Kup-Sze Choi (The Hong Kong Polytechnic University); Longbing Cao (University of Technology Sydney); Wang Shitong (Jiangnan University)

328: How Does Knowledge of the AUC Constrain the Set of Possible Ground-truth Labelings?
Jacob Whitehill (Worcester Polytechnic Institute)*

330: Sensitivity Analysis of Deep Neural Networks
Hai Shu (The University of Texas MD Anderson Cancer Center); Hongtu Zhu (UNC Chapel Hill)*

332: Migration as Submodular Optimization
Paul Goelz (Carnegie Mellon University); Ariel D Procaccia (Carnegie Mellon University)*

333: Scalable Distributed DL Training: Batching Communication and Computation
Shaoqi Wang (University of Colorado, Colorado Springs)*; Aidi Pi (University of Colorado, Colorado Springs); Xiaobo Zhou (University of Colorado, Colorado Springs)

335: Non-Compensatory Psychological Models for Recommender Systems
Chen Lin (Xiamen University)*; Xiaolin Shen (Xiamen University); Si Chen (Xiamen University); Muhua Zhu (Alibaba Group); Yanghua Xiao (Fudan University)

353: Deep Interest Evolution Network for Click-Through Rate Prediction
Guorui Zhou (Alibaba Group)*; Na Mou (Alibaba Group); QI PI (Alibaba Group); Ying Fan (Alibaba Group); Weijie Bian (Alibaba Group); Chang Zhou (Alibaba Group); Xiaoqiang Zhu (Alibaba Group); Kun Gai (Alibaba Group)

362: MFBO-SSM: Multi-Fidelity Bayesian Optimization for Fast Inference in State-Space Models
Mahdi Imani (Texas A&M University)*; Seyede Fatemeh Ghoreishi (Texas A&M University); Douglas Allaire (Texas A&M University); Ulisses M. Braga-Neto (Texas A&M University)

372: FRAME Revisited: An Interpretation View Based on Particle Evolution
Xu Cai (Sun Yat-sen University)*; Yang Wu (Sun Yat-sen University); Guanbin Li (Sun Yat-sen University); Ziliang Chen (Sun Yat-sen University); Liang Lin (Sun Yat-sen University)

395: RR-GAN: Single Image Rain Removal Without Paired Information
Hongyuan Zhu (Institute for Infocomm, Research Agency for Science, Technology and Research (A*STAR) Singapore)*; Xi Peng (); Joey Tianyi Zhou (IHPC); Songfan Yang (100tal); Vijay Chandrasekhar (Institute for Infocomm Research); Liyuan Li (Institute for Infocomm Research); Joo-Hwee Lim (Institute for Infocomm Research)

403: Unsupervised Meta-learning of Figure-Ground Segmentation via Imitating Visual Effects

Ding-Jie Chen (Academia Sinica)*; Jui-Ting Chien (national tsing hua university); Hwann-Tzong Chen (National Tsing Hua University); Tyng-Luh Liu (Academia Sinica)

410: MEAL: Multi-Model Ensemble via Adversarial Learning
Zhiqiang Shen (UIUC)*; Zhankui He (Fudan University); Xiangyang Xue (Fudan University)

428: TrafficPredict: Trajectory Prediction for Heterogeneous Traffic-Agents
Yuexin Ma (The University of Hong Kong)*; Xinge Zhu (The Chinese University of Hong Kong); Sibo Zhang (Baidu); Yang Ruigang (Baidu); Wenping Wang (The University of Hong Kong); Dinesh Manocha (UMD)

436: Optimal Surveillance of Covert Networks by Minimizing Inverse Geodesic Length
Serge Gaspers (UNSW); Kamran Najeebullah (UNSW and Data61)*

444: Tracking Logical Difference in Large-Scale Ontologies: A Forgetting-Based Approach
Yizheng Zhao (The University of Manchester)*; Ghadah Alghamdi (The University of Manchester); Renate Schmidt (Manchester); Hao Feng (North China University of Science and Technology); Giorgos Stoilos (Babylon Health Ltd.); Damir Juric (Babylon Health); Mohammad Khodadadi (Babylon Health)

451: Solving Imperfect-Information Games with Discounted Counterfactual Regret Minimization
Noam Brown (Carnegie Mellon University)*; Tuomas Sandholm (Carnegie Mellon University)

464: ScalMC: Engineering an Efficient Approximate Model Counter
Mate Soos (National University of Singapore); Kuldeep S Meel (National University of Singapore)*

466: Learning Neural Bag-of-Matrix-Summarization with Riemannian Network
Hong Liu (Xiamen University)*; Jie Li (Xiamen University); Rongrong Ji (Xiamen University, China); Yongjian Wu (Tencent Technology (Shanghai) Co.,Ltd)

482: Learning Diffusions without Timestamps
Hao Huang (Wuhan University)*; Qian Yan (Wuhan University); Ting Gan (Wuhan University); Di Niu (University of Alberta); Wei Lu (Renmin university of china); Yunjun Gao (" Zhejiang University, China")

487: Adversarial Dropout for Recurrent Neural Networks
Sungrae Park (KAIST); Kyungwoo Song (KAIST); Mingi Ji (KAIST); Wonsung Lee (KAIST); Il-Chul Moon (KAIST)*

503: Convergence of Learning Dynamics in Information Retrieval Games
Omer Ben-Porat (Technion – Israel Institute of Technology); Itay Rosenberg (Technion)*; Moshe Tennenholtz (Technion – Israel Institute of Technology)

517: Polynomial-time probabilistic reasoning with partial observations via implicit learning in probability logics
Brendan Juba (WASHINGTON UNIVERSITY ST LOUIS)*

518: Adaptive Sparse Confidence-Weighted Learning for Online Feature Selection
Yanbin Liu (University of Technology Sydney); Yan Yan (University of Technology Sydney); Ling Chen (" University of Technology, Sydney, Australia"); Yahong Han (Tianjin University); Yi Yang (UTS)*

530: Automated Verification of Social Laws for Continuous Time Multi-Robot Systems
Ronen Levy Nir (Technion)*; Erez Karpas (Technion)

534: Read, Watch, and Move: Reinforcement Learning for Temporally Grounding Natural Language Descriptions in Videos
Dongliang He (Baidu)*; Xiang Zhao (Baidu); Jizhou Huang (Baidu); Fu Li (Baidu); Xiao Liu (Baidu Research); Shilei Wen (Baidu Research)

541: A Novel Framework for Robustness Analysis of Visual QA Models
Jiahong Huang (KAUST)*; Cuong D Dao (KAUST); Modar Alfadly (KAUST); C.-H. Huck Yang (Georgia Institute of Technology); Rise Ooi (Hokkaido University); Yi-Chieh Liu (National Taiwan University); Bernard Ghanem (KAUST)

568: Adversarial Learning for Weakly-Supervised Social Network Alignment
Chaozhuo Li (Beihang University)*; Yukun Wang (National University of Singapore); Senzhang Wang (Nanjing University of Aeronautics and Astronautics); Yun Liu (Beihang University); P Yu (Tsinghua Universtiy); Zhoujun Li (Beihang University); Yanbo Liang (Hortonworks)

591: Rotational Diversity in Multi-Cycle Assignment Problems
Helge Spieker (Simula Research Laboratory)*; Arnaud Gotlieb (Simula Research Laboratory); Morten Mossige (University of Stavanger)

595: TallyQA: Answering Complex Counting Questions
Manoj Acharya (Rochester Institute of Technology)*; Kushal Kafle (Rochester Institute of Technology); Christopher Kanan (Rochester Institute of Technology)

602: Distributionally Adversarial Attack
Tianhang Zheng (University at Buffalo, State University of New York)*; Changyou Chen (University at Buffalo); Kui Ren (University at Buffalo, State University of New York)

606: ScisummNet: A Large Annotated Corpus and Content-Impact Models for Scientific Paper Summarization with Citation Networks
Michihiro Yasunaga (Yale University)*; Jungo Kasai (University of Washington); Rui Zhang (Yale University); Alexander R Fabbri (Yale University); Irene Li (Yale University); Dan Friedman (Yale University); Dragomir Radev (Yale University)

607: Object Reachability via Swaps along a Line
Sen Huang (University of Electronic Science and Technology of China); Mingyu Xiao (UESTC)*

610: Recognizing Unseen Attribute-Object Pair with Generative Model
zhixiong nan (Xi'an Jiaotong University)*; Yang Liu (UCLA); Nanning Zheng (Xi'an Jiaotong University); Song-Chun Zhu (UCLA)

620: Deep Bayesian Trust : A Dominant and Fair Incentive Mechanism for Crowd
Naman Goel (EPFL)*; Boi Faltings (EPFL)

629: Knowledge-Driven Encode, Retrieve, Paraphrase for Medical Image Report Generation
Yuan Li (Duke University)*; Xiaodan Liang (Carnegie Mellon University); zhiting hu (CMU); Eric Xing (Petuum Inc. and CMU)

644: Video Imprint Segmentation for Temporal Action Detection in Untrimmed Videos
Zhanning Gao (Xi'an Jiaotong University); Le Wang (Xi'an Jiaotong University)*; Qilin Zhang (HERE Technologies); zhenxing niu (Alibaba Group-Machine Intelligence Technology); Nanning Zheng (Xi'an Jiaotong University); Gang Hua (Microsoft Cloud and AI)

648: Learning to Steer by Mimicking Features from Heterogeneous Auxiliary Networks
Yuenan HOU (The Chinese University of Hong Kong)*; Zheng Ma (SenseTime Research); Chunxiao Liu (SenseTime Research); Chen Change Loy (Chinese University of Hong Kong)

652: On Testing of Samplers
Sourav Chakraborty (Indian Statistical Institute); Kuldeep S Meel (National University of Singapore)*

669: A^2-Net: Molecular Structure Estimation for Cryo-EM Density Volumes
Kui Xu (Tsinghua University)*; Zhe Wang (Sensetime Group Limited); Jianping Shi (Sensetime Group Limited); Hongsheng Li (Chinese University of Hong Kong); Qiangfeng Cliff Zhang (Tsinghua University)

672: Template-Based Math Word Problem Solvers with Recursive Neural Networks
Lei Wang (University of Electronic and Science Technology of China); Dongxiang Zhang (University of Electronic Science and Technology of China)*; zhang jipeng (University of Electronic Science and Technology of China); Xing Xu (University of Electronic Science and Technology of China); Lianli Gao (The University of Electronic Science and Technology of China); Bing Tian Dai (Singapore Management University); Heng Tao Shen (University of Electronic Science and Technology of China (UESTC))

674: Learning to Embed Sentences Using Attentive Recursive Trees
Jiaxin Shi (Tsinghua University)*; Lei Hou (Tsinghua University); Juanzi Li (Tsinghua University); Zhiyuan Liu (Tsinghua University); Hanwang Zhang (Nanyang Technological University)

679: On the Hardness of Probabilistic Inference Relaxations
Supratik Chakraborty (IIT Bombay); Kuldeep S Meel (National University of Singapore)*; Moshe Vardi (Rice University)

697: Consensus Adversarial Domain Adaptation
Han Zou (UC Berkeley)*; Yuxun Zhou (UC Berkeley); JIANFEI YANG (Nanyang Technological University); Huihan Liu (UC Berkeley); Hari Prasanna Das (UC Berkeley); Costas Spanos (UC Berkeley)

700: Towards Optimal Discrete Online Hashing with Balanced Similarity
Mingbao Lin (Xiamen University, China)*; Rongrong Ji (Xiamen University, China); Hong Liu (Xiamen University); Xiaoshuai Sun (Harbin Institute of Technology); Yongjian Wu (Tencent Technology (Shanghai) Co.,Ltd); Yunsheng Wu (Tencent YouTu)

702: Determinantal reinforcement learning
Takayuki Osogami (IBM Research - Tokyo)*; Raymond Rudy (IBM Research Tokyo)

717: Scene Text Recognition from Two-Dimensional Perspective
Minghui Liao (Huazhong University of Science and Technology)*; Jian Zhang (Megvii); Zhaoyi Wan (Megvii); Fengming Xie (Megvii); Jiajun Liang (Megvii); Pengyuan Lyu (Huazhong University of Science and Technology); Cong Yao (Megvii); Xiang Bai (Huazhong University of Science and Technology)

721: 3D Face Synthesis Driven by Personality Impression
yining lang (Beijing Institute of Technology)*; Wei Liang (Beijing Institute of Technology); Yujia Wang (Beijing Institute of Technology); Lap-Fai Yu (University of Massachusetts Boston)

723: Perceptual-Sensitive GAN for Generating Adversarial Patches
Aishan Liu (BUAA); Jiaxin Fan (BUAA); Yuqing Ma (BUAA); Anlan Zhang (BUAA); Huiyuan Xie (University of Cambridge); Xianglong Liu (Beihang University)*; Dacheng Tao (University of Sydney)

736: DDFlow: Learning Optical Flow with Unlabeled Data Distillation
Pengpeng Liu (The Chinese University of Hong Kong)*; Irwin King (The Chinese University of Hong Kong); Michael Lyu (The Chinese University of Hong Kong); Jia Xu (Tencent AI Lab)

750: Incorporating Behavioral Constraints in Online AI Systems
Avinash Balakrishnan (IBM); Djallel Bouneffouf (IBM); Nicholas Mattei (IBM Research)*; Francesca Rossi (IBM)

753: A Deep Reinforcement Learning Framework for Rebalancing Dockless Bike Sharing Systems

Ling Pan (IIIS, Tsinghua University)*; Qingpeng Cai (IIIS, Tsinghua University); Zhixuan Fang (The Department of Information Engineering, The Chinese University of Hong Kong); Pingzhong Tang (Tsinghua University); Longbo Huang (IIIS, Tsinghua Univeristy)

754: Data-to-Text Generation with Content Selection and Planning
Ratish Puduppully (University of Edinburgh)*; Li Dong (University of Edinburgh); Mirella Lapata (University of Edinburgh)

770: How many preference pairs suffice to rank a graph consistently?
Aadirupa Saha (Indian Institute of Science)*; Rakesh Shivanna (Google Inc.); Chiranjib Bhattacharyya (Indian Institute of Science)

777: Allocating Search Effort When Actions Expire
Shahaf Shperberg (Ben-Gurion University); Andrew Coles (King's College London); Bence Cserna (University of New Hampshire); Erez Karpas (Technion); Wheeler Ruml (University of New Hampshire); Eyal S Shimony (BGU)*

778: Sentence-wise Smooth Regularization for Sequence to Sequence Learning
Chengyue Gong (Peking Univeristy)*; Xu Tan (); Di He (Peking University); Tao Qin (Microsoft Research Asia)

779: Sublinear Time Numerical Linear Algebra for Structured Matrices
Xiaofei Shi (CMU)*; David Woodruff (Carnegie Mellon University)

782: HSME: Hypersphere Manifold Embedding for Visible Thermal Person Re-identification
Yi Hao (Xidian University)*; Nannan Wang (Xidian University); Li Jie (Xidian University); Xinbo Gao (Xidian University)

786: Energy Confused Adversarial Metric Learning for Zero-Shot Image Retrieval and Clustering
Binghui Chen (BUPT)*; Weihong Deng (Beijing University of Posts and Telecommunications)

787: Spectral Clustering in Heterogeneous Information Networks
Xiang Li (JD.com)*; Ben Kao (University of Hong Kong); Zhaochun Ren (JD.com); Dawei Yin (JD.com)

793: Interaction-aware Factorization Machines
Fuxing Hong (Tencent)*; Dongbo Huang (Tencent); Ge Chen (Tencent)

817: Residual Attribute Attention Network for Face Image Super-Resolution
Jingwei Xin (Xidian University); Nannan Wang (Xidian University)*; Li Jie (Xidian University); Xinbo Gao (Xidian University)

844: Certifying the True Error: Machine Learning in Coq with Verified Generalization Guarantees
Alexander Bagnall (Ohio University); Gordon Stewart (Ohio University)*

846: Differentially Private Empirical Risk Minimization with Smooth Non-convex Loss Functions: A Non-stationary View
Di Wang (SUNY at Buffalo)*; Jinhui Xu (SUNY Buffalo)

851: Embedding Uncertain Knowledge Graphs
Xuelu Chen (UCLA)*; Muhao Chen (UCLA); Weijia Shi (UCLA); Yizhou Sun (UCLA); Carlo Zaniolo (UCLA, USA)

867: Self-Paced Active Learning: Query the Right Thing at the Right Time
Ying-Peng Tang (Nanjing University of Aeronautics and Astronautics); Sheng-Jun Huang (Nanjing University of Aeronautics and Astronautics)*

880: Learning a Deep Convolutional Network for Colorization in Monochrome-Color Dual-Lens System
Xuan Dong (Beijing University of Posts and Telecommunications); Weixin Li (Beihang University)*; Xiaojie Wang (Beijing University of Posts and Telecommunications); Yunhong Wang (State Key Laboratory of Virtual Reality Technology and System, Beihang University, Beijing 100191, China)

881: Fully Convolutional Network with Multi-Step Reinforcement Learning for Image Processing
Ryosuke Furuta (The University of Tokyo)*; Naoto Inoue (The University of Tokyo); Toshihiko Yamasaki (The University of Tokyo)

887: G2C: A Generator-to-Classifier Framework Integrating Multi-Stained Visual Cues for Pathological Glomerulus Classification
Bingzhe Wu (Peking University)*; Xiaolu Zhang (Ant Financial Services Group); Shiwan Zhao (IBM Research); Lingxi Xie (Johns Hopkins University); Caihong Zeng (National Clinical Research Center of Kidney Diseases, Jinling Hospital, Nanjing University School of Medicine); Zhihong Liu (National Clinical Research Center of Kidney Diseases, Jinling Hospital, Nanjing University School of Medicine); Guangyu Sun (Peking University)

895: Towards Optimal Fine Grained Retrieval via Decorrelated Centralized Loss with Normalize-Scale layer
Xiawu Zheng (Xiamen University)*; Rongrong Ji (Xiamen University, China); Xiaoshuai Sun (Harbin Institute of Technology); Baochang Zhang (Beihang University); Yongjian Wu (Tencent Technology (Shanghai) Co.,Ltd); Yunsheng Wu (Tencent YouTu)

913: Robustness Can Be Cheap: A Highly Efficient Approach to Discover Outliers under High Outlier Ratios
Siqi Wang (National University of Defense Technology)*; En Zhu (National University of Defense Technology); Xiping Hu (Shenzhen Institute of Advanced Technology, Chinese Academy of Science); Xinwang Liu (National University of Defense Technology); Qiang Liu (National

University of Defense Technology); Jianping Yin (National University of Defense Technology); Fei Wang (Cornell University)

915: Hybrid Attention-based Prototypical Networks for Noisy Few-Shot Relation Classification
Tianyu Gao (Tsinghua University)*; Xu Han (Tsinghua University); Zhiyuan Liu (Tsinghua University); Maosong Sun (Tsinghua University)

930: TransGate: Knowledge Graph Embedding with Shared Gate Structure
Jun Yuan (Institute of Information Engineering, Chinese Academy of Sciences)*; Neng Gao (Institute of Information Engineering, Chinese Academy of Sciences); Ji Xiang (Institute of Information Engineering, Chinese Academy of Sciences)

939: Performance Guarantees for Homomorphisms beyond Markov Decision Processes
Sultan Javed Majeed (Australian National University)*; Marcus Hutter (Australian National University)

941: Cross-view Local Structure Preserved Diversity and Consensus Learning for Multi-view Unsupervised Feature Selection
Chang Tang (China University of Geosciences); Xinwang Liu (National University of Defense Technology); Xinzhong Zhu (Zhejiang Normal University)*; Lizhe Wang (China University of Geosciences)

947: Enriching Non-parametric Bidirectional Search Algorithms
Shahaf Shperberg (Ben-Gurion University); Ariel Felner (BGU)*; Avi Hayoun (Ben-Gurion University); Eyal S Shimony (BGU); Nathan R Sturtevant (University of Alberta)

956: Cost-Sensitive Learning to Rank
Ryan McBride (Simon Fraser University)*; Ke Wang (SFU); Zhouyang Ren (Chongqing University); Wenyuan Li (Chongqing University)

957: Primarily About Primaries
Allan Borodin (University of Toronto); Omer Lev (Ben Gurion University); Nisarg Shah (U. Toronto)*; Tyrone Strangway (University of Toronto)

971: Optimal Projection Guided Transfer Hashing for Image Retrieval
Ji Liu (Chongqing University); Lei Zhang (Chongqing University)*

972: Safeguarded Dynamic Label Regression for Noisy Supervision
Jiangchao Yao (Cooperative Medianet Innovation Center, Shang hai Jiao Tong University)*; Hao Wu (Cooperative Medianet Innovation Center, Shanghai Jiao Tong University); Ya Zhang (Cooperative Medianet Innovation Center, Shang hai Jiao Tong University); Ivor Tsang (University of Technology Sydney); Jun Sun (SJTU)

974: Neural Attentive Model for Explainable Recommendation by Learning User Dynamic Preference
Xu Chen (Tsinghua University)*; Yongfeng Zhang (Rutgers University); Zheng Qin (Tsinghua University)

985: Learning Basis Representation to Refine 3D Human Pose Estimations
Chunyu Wang (Microsoft Research asia)*; Haibo Qiu (University of Science and Technology of China); Alan Yuille (Johns Hopkins University); Wenjun Zeng (Microsoft Research)

994: Efficient and Effective Incomplete Multi-view Clustering
Xinwang Liu (National University of Defense Technology); Xinzhong Zhu (Zhejiang Normal University); Miaomiao Li (Changsha University); Chang Tang (China University of Geosciences)*; En Zhu (National University of Defense Technology); Jianping Yin (Dongguan University of Technology); Wen Gao (PKU)

1004: Multi-Dimensional Classification via kNN Feature Augmentation
Bin-Bin Jia (School of Computer Science and Engineering, Southeast University); Min-Ling Zhang (School of Computer Science and Engineering, Southeast University)*

1006: Regular Boardgames
Jakub Kowalski (University of Wrocław)*; Maksymilian Mika (University of Wrocław); Jakub Sutowicz (University of Wrocław); Marek Szykuła (University of Wrocław)

1010: Learning to Localize Objects with Noisy Labeled Instances
Xiaopeng Zhang (National University of Singapore)*; Yang Yang (University of Electronic Science and Technology of China); Jiashi Feng (NUS)

1020: To Find Where You Talk: Temporal Sentence Localization in Video with Attention Based Location Regression
Yitian Yuan (Tsinghua-Berkeley Shenzhen Institute, Tsinghua University)*; Tao Mei (JD.com); Wenwu Zhu (Tsinghua University)

1030: One-network Adversarial Fairness
Tameem Adel (University of Cambridge)*; Isabel Valera (MPI-IS); Zoubin Ghahramani (University of Cambridge); Adrian Weller (Cambridge University)

1031: Spatiotemporal Multi-Graph Convolution Network for Ride-hailing Demand Forecasting
Xu Geng (HKUST)*; Yaguang Li (University of Southern California); Leye Wang (HKUST); Lingyu Zhang (didichuxing Inc.); Jieping Ye (Didichuxing Inc.); Yan Liu (USC); Qiang Yang (Hong Kong UST)

1036: Traffic Updates: Saying a Lot While Revealing a Little
John Krumm (Microsoft Research)*; Eric Horvitz (MSR)

1051: Revenue Enhancement Via Asymmetric Signaling in Interdependent-Value Auctions
Zhuoshu Li (Washington University in St. Louis)*; Sanmay Das (Washington University in St. Louis)

1057: Safe Reinforcement Learning through Barrier Functions for Safety-Critical Continuous Control Tasks
Richard Cheng (Caltech)*; Gabor Orosz (University of Michigan); Richard M Murray (California Institute of Technology); Joel Burdick (Caltech)

1068: Horizontal Pyramid Matching for Person Re-identification
Yang Fu (UIUC)*; Yunchao Wei (UIUC); Yuqian Zhou (UIUC); Honghui Shi (UIUC); Gao Huang (Cornell); Xinchao Wang (Stevens Institute of Technology); Zhiqiang Yao (Cloudwalk); Thomas Huang (UIUC)

1070: STA: Spatial-Temporal Attention for Large-Scale Video-based Person Re-Identification
Yang Fu (UIUC)*; Xiaoyang Wang (Nokia Bell Labs); Yunchao Wei (UIUC); Thomas Huang (UIUC)

1076: Multi-scale 3D Convolution Network for Video Based Person Re-Identification
Jianing Li (Peking University); Shiliang Zhang (Beijing University)*; Tiejun Huang (Peking University)

1077: Weakly-Supervised Simultaneous Evidence Identification and Segmentation for Automated Glaucoma Diagnosis
Rongchang Zhao (Central South University)*; Wangmin Liao (Central South University); Beiji Zou (Central South University); Zailiang Chen (Central South University); Shuo Li (the University of Western Ontario)

1086: Pathological Evidence Exploration in Deep Retinal Image Diagnosis
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1097: Cubic LSTMs for Video Prediction
Hehe Fan (UTS)*; Linchao Zhu (University of Technology, Sydney); Yi Yang (UTS)

1105: A Deep Cascade Model for Multi-Document Reading Comprehension
Ming Yan (Alibaba Group); Jiangnan Xia (Alibaba Group); Chen Wu (Alibaba Group)*; Bin Bi (Alibaba Group); Zhongzhou Zhao (Alibaba Group); Ji Zhang (Alibaba Inc.); Luo Si (Alibaba Group); Rui Wang (Alibaba Group); Haiqing Chen (Alibaba Inc.); Wei Wang (Alibaba Group)

1108: Amalgamating Knowledge towards Comprehensive Classification

Chengchao Shen (Zhejiang University)*; Xinchao Wang (Stevens Institute of Technology); Jie Song (College of Computer Science and Technology, Zhejiang University); Li Sun (Zhejiang University); Mingli Song (Zhejiang University)

1109: Bounded Suboptimal Search with Learned Heuristics for Multi-Agent Systems
Markus Spies (Bosch Center for Artificial Intelligence)*; Marco Todescato (Bosch Center for Artificial Intelligence); Meng Guo (Bosch Center for Artificial Intelligence); Patrick Kesper (Bosch Center for Artificial Intelligence); Hannes Becker (Bosch Center for Artificial Intelligence); Nicolai Waniek (Bosch Center for Artificial Intelligence)

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1117: Cross-domain Visual Representations via Unsupervised Graph Alignment
Baoyao Yang (Department of Computer Science, Hong Kong Baptist University)*; PongChi Yuen (Department of Computer Science, Hong Kong Baptist University)

1121: A Bottom-Up Clustering Approach to Unsupervised Person Re-identification
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1147: Complexity of Abstract Argumentation Under a Claim-centric View
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1150: Unified Embedding Alignment with Missing Views Inferring for Incomplete Multi-View Clustering

Jie Wen (Harbin Institute of Technology, Shenzhen)*; Zheng Zhang (The University of Queensland); Yong Xu (Harbin Institute of Technology Shenzhen Graduate School); Bob Zhang (University of Macau); Lunke Fei (Guangdong University of Technology); Hong Liu (Peking University Shenzhen Graduate School)

1157: A Hierarchical Framework for Relation Extraction with Reinforcement Learning
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1158: Modular Materialisation of Datalog Programs
Pan Hu (University of Oxford)*; Boris Motik (University of Oxford); Ian Horrocks (University of Athens)

1169: TransNFCM: Translation-Based Neural Fashion Compatibility Modeling
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1176: Unsupervised Fake News Detection on Social Media: A Generative Approach
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1177: Deep Bayesian Optimization on Attributed Graphs
Jiaxu Cui (Jilin University); Bo Yang (Jilin University)*; Xia Hu (Texas A&M University)

1181: Deep Latent Generative Models For Energy Disaggregation
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1183: Selective Refinement Network for High Performance Face Detection
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1194: GAMENet: Graph Augmented MEmory Networks for Recommending Medication Combination
Junyuan Shang (Peking University); Cao Xiao (IBM Research)*; Tengfei Ma (IBM Research); Hongyan Li (Peking University); Jimeng Sun (CS)

1199: The Kelly Growth Optimal Portfolio with Ensemble Learning

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1200: Zero-Shot Adaptive Transfer for Conversational Language Understanding
Sungjin Lee (Microsoft Research)*; Rahul Jha (Microsoft)

1207: ABox Abduction via Forgetting in ALC
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1226: Task Transfer by Preference-Based Cost Learning
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1233: Free VQA Models from Knowledge Inertia by Pairwise Inconformity Learning
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1239: Mono3D++: Monocular 3D Vehicle Detection with Two-Scale 3D Hypotheses and Task Priors
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1245: End-to-End Knowledge-Routed Relational Dialogue System for Automatic Diagnosis
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1248: Pareto-Optimal Allocation of Indivisible Goods with Connectivity Constraints
Ayumi Igarashi (Kyushu University)*; Dominik Peters (University of Oxford)

1250: Joint Semi-supervised Feature Selection and Classification Through Bayesian Approach
Bingbing Jiang (School of Computer Science and Technology, University of Science and Technology of China); Xingyu Wu (University of Science and Technology of China); Kui Yu (School of Computer and Information, Hefei University of Technology); Huanhuan Chen (School of Computer Science and Technology, University of Science and Technology of China)*

1284: RGBD Based Gaze Estimation via Multi-task CNN

Dongze Lian (Shanghaitech University)*; Ziheng Zhang (Shanghaitech University); Weixin Luo (Shanghaitech University); lina hu (Shanghaitech University); Minye Wu (Shanghaitech University); Zechao Li (Nanjing University of Science and Technology); Jingyi Yu (Shanghai Tech University); Shenghua Gao (Shanghaitech University)

1292: GeniePath: Graph Neural Networks with Adaptive Receptive Paths
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1296: Balanced Linear Contextual Bandits
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1303: TopicEq: A Joint Topic and Mathematical Equation Model for Scientific Texts
Michihiro Yasunaga (Yale University)*; John D Lafferty (Yale University)

1304: Induction of Non-Monotonic Logic Programs to Explain Boosted Tree Models Using LIME
Farhad Shakerin (University of Texas at Dallas)*; Gopal Gupta (University of Texas at Dallas)

1312: Balancing Relevance and Diversity in Online Bipartite Matching via Submodularity
John P Dickerson (University of Maryland); Karthik Abinav Sankararaman (University of Maryland College Park)*; Aravind Srinivasan (University of Maryland College Park); Pan Xu (University of Maryland)

1317: Weakly Supervised Scene Parsing with Point-based Distance Metric Learning
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1319: Combining Axiom Injection and Knowledge Base Completion for Efficient Natural Language Inference
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1321: Spell Once, Summon Anywhere: A Two-Level Open-Vocabulary Language Model
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Colleen Alkalay-Houlihan (University of Toronto)*; Nisarg Shah (U. Toronto)

1335: Deep Reinforcement Learning for Syntactic Error Repair in Student Programs
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1336: Switch-based Active Deep Dyna-Q: Efficient Adaptive Planning for Task-Completion Dialogue Policy Learning
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1346: Recurrent Attention Model for Pedestrian Attribute Recognition
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1354: Scaling-up Split-Merge MCMC with Locality Sensitive Sampling (LSS)
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1362: Efficient Region Embedding with Multi-view Spatial Networks: A Perspective of Locality-Constrained Spatial Autocorrelations
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1365: Combo-Action: Training Agent For FPS Game with Auxiliary Tasks
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1370: Functional Connectivity Network Analysis with Discriminative Hub Detection for Brain Disease Identification
Mingliang Wang (Nanjing University of Aeronautics and Astronautics)*; Jiashuang Huang (Nanjing University of Aeronautics and Astronautics); Mingxia Liu (Nanjing University of Aeronautics and Astronautics); Daoqiang Zhang (Nanjing University of Aeronautics and Astronautics, China)

1384: Exploiting Coarse-to-Fine Task Transfer for Aspect-level Sentiment Classification
Zheng Li (Hong Kong University of Science and Technology)*; Ying Wei (Tencent AI Lab); Yu Zhang (HKUST); Xiang Zhang (Hong Kong University of Science and Technology); Xin Li (The Chinese University of Hong Kong)

1386: Feature Sampling based Unsupervised Semantic Clustering for Real Web Multi-view Content
Xiaolong Gong (Shanghai Jiao Tong University)*; Linpeng Huang (Shanghai Jiao Tong University); Fuwei Wang (Shanghai Jiao Tong University)

1395: Virtual-Taobao: Virtualizing Real-world Online Retail Environment for Reinforcement Learning
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1396: Cycle-SUM: Cycle-consistent Adversarial LSTM Networks for Unsupervised Video Summarization
Li Yuan (National University of Singapore)*; Ping Li (Hangzhou Dianzi University); Jiashi Feng (NUS); Li Zhou (National University of Singapore); Francis EH Tay (National University of Singapore)

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1405: An Axiomatic Approach to Rationality for Reinforcement Learning Agents
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1407: Heterogeneous Transfer Learning via Deep Matrix Completion with Adversarial Kernel Embedding
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1410: Hierarchical Attention Network for Image Captioning
Weixuan Wang (School of Electronic and Information Engineering, Sun Yat-sen University); Zhihong Chen (School of Electronic and Information Engineering, Sun Yat-sen University); Haifeng Hu (School of Electronic and Information Engineering, Sun Yat-sen University)*

1411: Bootstrap Estimated Uncertainty of the Environment Model for Model-based Reinforcement Learning
Wenzhen Huang (Institute of Automation，Chinese Academy of Sciences)*; 张 俊格 (中科院自动化所); KAIQI HUANG (Chinese Academy of Sciences, China)

1437: Real-time Planning as Decision-making Under Uncertainty
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1460: Diverse Exploration via Conjugate Policies for Policy Gradient Methods
Andrew Cohen (Binghamton University)*; Xingye Qiao (Binghamton University); Lei Yu (Binghamton University); Elliot E Way (Binghamton University); Xiangrong Tong (Yantai University)

1468: The Goldilocks zone: Towards better understanding of neural network loss landscapes
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Xin Wang (University of California, Santa Barbara)*; Jiawei Wu (University of California, Santa Barbara); Da Zhang (UC Santa Barbara); Yu Su (OSU); William Wang (UC Santa Barbara)

1480: Bayesian posterior approximation via greedy particle optimization
Futoshi Futami (UTokyo / RIKEN)*; Zhenghang Cui (The University of Tokyo / RIKEN); Issei Sato (The university of Tokyo/RIKEN); Masashi Sugiyama (RIKEN/The University of Tokyo)

1483: ActivityNet-QA: A Dataset for Understanding Complex Web Videos via Question Answering
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1484: Gaussian Transformer: a Lightweight Approach for Natural Language Inference

Maosheng Guo (Harbin Institute of Technology)*; Yu Zhang (Harbin Institute of Technology); Ting Liu (哈尔滨工业大学)

1496: Knowledge Distillation with Adversarial Samples Supporting Decision Boundary
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1497: Less but Better: Generalization Enhancement of Ordinal Embedding via Distributional Margin
Ke Ma (Institute of Information Engineering,　Chinese Academy of Sciences); Qianqian Xu (Key Laboratory of Intelligent Information Processing, Institute of Computing Technology, Chinese Academy of Sciences); Zhiyong Yang (SKLOIS, Institute of Information Engineering, Chinese Academy of Sciences; SCS, University of Chinese Academy of Sciences); Xiaochun Cao (Chinese Academy of Sciences)*

1498: TET-GAN: Text Effects Transfer via Stylization and Destylization
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Yiling Chen (Harvard University); Yang Liu (UC Santa Cruz/Harvard University)*; Juntao Wang (Harvard University)

1506: Hypergraph Neural Networks
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1512: Knowledge Transfer via Distillation of Activation Boundaries Formed by Hidden Neurons
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1534: Cognitive Deficit of Deep Learning in Numerosity
Xiaolin Wu (McMaster Univ; Shanghai Jiao Tong Univ.)*; Xi Zhang (Shanghai Jiao Tong University); Xiao Shu (McMaster University; Shanghai Jiao Tong University)

1538: Online Pandora's Boxes and Bandits
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1553: Fast Incremental SVDD Learning Algorithm with the Gaussian Kernel
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1557: Projection Convolutional Neural Networks
Jiaxin Gu (Beihang University); Ce Li (China University of Mining and Technology, Beijing); Baochang Zhang (Beihang University)*; Jianzhuang Liu (Noah's Ark Lab, Huawei Technologies Company, Ltd., China); David Doermann (University at Buffalo); Xianbin Cao (Beihang University, China); Jungong Han (Lancaster University)

1562: StNet: Local and Global Spatial-Temporal Modeling for Action Recognition
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1575: Capacity Control of ReLU Neural Networks by Basis-path Norm
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1576: 3D Volumetric Modeling with Introspective Neural Networks
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1578: Point Cloud Processing via Recurrent Set Encoding
Pengxiang Wu (Computer Science, Rutgers)*; Chao Chen (Stony Brook University); Jingru Yi (Computer Science, Rutgers); Dimitris Metaxas (Rutgers)

1604: When Do Envy-Free Allocations Exist?
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1609: Stochastic Submodular Maximization with Performance-Dependent Item Costs
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1610: Learning Personalized End-to-End Goal-Oriented Dialog
Liangchen Luo (Peking University)*; Wenhao Huang (Shanghai Discovering Investment); Qi Zeng (Peking University); Xu Sun (Peking University); Zaiqing Nie (Alibaba)

1614: Adaptive Region Embedding for Text Classification
Liuyu Xiang (Tsinghua University)*; Xiaoming Jin (Tsinghua University); Lan Yi (Cisco); guiguang ding (Tsinghua University, China)

1620: Soft Facial Landmark Detection by Label Distribution Learning

Kai Su (Southeast University)*; Xin Geng (Southeast University)

1627: Constrained Generation via Metropolis-Hastings Sampling
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1636: LiveBot: Generating Live Video Comments Based on Visual and Textual Contexts
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1646: Simulation-Based Approach to Efficient Commonsense Reasoning in Very Large Knowledge Bases
Abhishek Sharma (Cycorp, Inc.)*; Keith Goolsbey (Cycorp, Inc.)

1652: On Fair Cost Sharing Games in Machine Learning
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1679: DAN : Deep Attention Neural Network for News Recommendation
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1680: Kernelized Hashcode Representations for Biomedical Relation Extraction
Sahil Garg (USC)*; Aram Galstyan (USC Information Sciences Institute); Greg Ver Steeg (USC Information Sciences Institute); Irina Rish (IBM Research); Guillermo Cecchi (IBM); Shuyang Gao (ISI USC)

1681: TAPAS: Train-less Accuracy Predictor forArchitecture Search
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1707: Densely Supervised Grasp Detector (DSGD)
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1715: Outlier Aware Network Embedding for Attributed Networks
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1717: Human Action Transfer Based on 3D Model Reconstruction

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1722: Classification with Costly Features using Deep Reinforcement Learning
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1723: Scene Text Detection with Supervised Pyramid Context Network
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1732: TDSNN:From Deep Neural Networks to Deep Spike Neural Networks with Temporal-coding
Lei Zhang (Institute of Computing Technology of the Chinese Academy of Sciences;University of Chinese Academy of Sciences; Cambricon Tech. Ltd)*; Shengyuan Zhou (Institute of Computing Technology of the Chinese Academy of Sciences;University of Chinese Academy of Sciences; Cambricon Tech. Ltd); Tian Zhi (Institute of Computing Technology of the Chinese Academy of Sciences); Du Zidong (institute of Computing Technology of the Chinese Academy of Sciences); Yunji Chen (Institute of Computing Technology, Chinese Academy of Sciences)

1734: Verifying Robustness of Gradient Boosting Models
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1744: On Structural Causal Bandit with Non-manipulable Variables
Sanghack Lee (Purdue University)*; Elias Bareinboim (Purdue University)

1747: BLOCK: Bilinear Superdiagonal Fusion for Visual Question Answering and Visual Relationship Detection
Hedi Ben-younes (Sorbonne université)*; Remi Cadene (LIP6); Matthieu Cord (Sorbonne University); Nicolas Thome (CNAM, Paris)

1748: Gradient Harmonized Single-stage Detector
Buyu LI (The Chinese University of Hong Kong)*; Yu Liu (The Chinese University of Hong Kong); Xiaogang Wang (Chinese University of Hong Kong, Hong Kong)

1750: Non-Local Context Encoder: Robust Biomedical Image Segmentation against Adversarial Attacks
Xiang He (Sun Yat-sen University); Sibei Yang (The University of Hong Kong); Guanbin Li (Sun Yat-sen University)*; Haofeng Li (The University of Hong Kong); Huiyou Chang (Sun Yat-sen University); Yizhou Yu (Deepwise AI Lab & HKU)

1754: A Two-Stream Mutual Attention Network for Semi-supervised Biomedical Segmentation with Noisy Labels
Shaobo Min (University of Science and Technology of China); Xuejin Chen (University of Science and Technology of China)*; Zheng-Jun Zha (University of Science and Technology of China); Feng Wu (University of Science and Technology of China); Yongdong Zhang (University of Science and Technology of China)

1760: Block Belief Propagation for Parameter Learning in Markov Random Fields
You Lu (Computer Science Department, Virginia Tech)*; Zhiyuan Liu (University of Colorado Boulder); Bert Huang (Virginia Tech)

1769: Structured and Sparse Annotations for Image Emotion Distribution Learning
Haitao Xiong (Beijing Technology and Business University)*; Hongfu Liu (Northeastern University, USA); Bineng Zhong (Huaqiao University); YUN FU (Northeastern University)

1790: Deep Reinforcement Learning for Green Security Games with Real-Time Information
Yufei Wang (Peking University)*; Zheyuan Ryan Shi (Carnegie Mellon University); Lantao Yu (Stanford University); Yi Wu (UC Berkeley); Rohit Singh (World Wide Fund for Nature); Lucas Joppa (Microsoft Research); Fei Fang (Carnegie Mellon)

1799: Variance Reduction in Monte Carlo Regret Minimization for Extensive Games using Baselines
Martin Schmid (DeepMind)*; Matej Moravcik (DeepMInd); Neil Burch (DeepMind); Marc Lanctot (Deepmind); Rudolf Kadlec (Google DeepMind); Michael Bowling (DeepMind)

1802: Model-Free IRL using Maximum Likelihood Estimation
Vinamra Jain (The University of Georgia); Prashant Doshi (University of Georgia); Bikramjit Banerjee (University of Southern Mississippi)*

1806: Self-Supervised Video Representation Learning with Space-Time Cubic Puzzles
Dahun Kim (KAIST)*; Donghyeon Cho (KAIST); In So Kweon (KAIST)

1830: Partial Awareness
Evan Piermont (Royal Holloway, University of London)*; Joe Halpern ()

1834: Memory Bounded Open-Loop Planning in Large POMDPs using Thompson Sampling
Thomy Phan (LMU Munich)*; Lenz Belzner (MaibornWolff); Marie Kiermeier (LMU Munich); Markus Friedrich (LMU Munich); Kyrill Schmid (LMU Munich); Claudia Linnhoff-Popien (Virality GmbH)

1838: Finding All Bayesian Network Structures within a Factor of Optimal
Zhenyu A. Liao (University of Waterloo); Charupriya Sharma (University of Waterloo); James Cussens (University of York); Peter van Beek (University of Waterloo)*

1852: Verification of RNN-Based Neural Agent-Environment Systems
Michael Akintunde (Imperial College London); Andreea Kevorchian (Imperial College London); Alessio Lomuscio (Imperial College London)*; Edoardo Pirovano (Imperial College London)

1853: ColNet: Embedding the Semantics of Web Tables for Column Type Prediction
Jiaoyan Chen (University of Oxford)*; Ernesto Jimenez-Ruiz (Alan Turing Institute); Ian Horrocks (University of Athens); Charles Sutton (University of Edinburgh)

1855: Estimating the Causal Effect from Partially Observed Time Series
Akane Iseki (the University of Tokyo)*; Yusuke Mukuta (The University of Tokyo); Tatsuya Harada (The University of Tokyo); Yoshitaka Ushiku (The University of Tokyo)

1858: Understanding Learned Models by Identifying Important Features at the Right Resolution
Akshay Sood (University of Wisconsin-Madison); Mark Craven (University of Wisconsin-Madison); Kyubin Lee (University of Wisconsin-Madison)*

1863: Graph Convolutional Networks for Text Classification
Liang Yao (NORTHWESTERN UNIVERSITY)*; Chengsheng Mao (Northwestern University); Yuan Luo ("Northwestern University, IL")

1871: Distribution Consistency based Covariance Metric Networks for Few Shot Learning
Wenbin Li (Nanjing University)*; Jinglin Xu (Northwestern Polytechnical University); Jing Huo (Nanjing University); Lei Wang ("University of Wollongong, Australia"); Yang Gao (Nanjing University); Jiebo Luo (U. Rochester)

1874: Group Decision Diagram (GDD): A Compact Representation for Permutations
Takanori Maehara (RIKEN AIP)*; Yuma Inoue (Google)

1882: DoPAMINE: Double-sided Masked CNN for Pixel Adaptive Multiplicative Noise Despeckling
Sunghwan Joo (Sungkyunkwan University); Sungmin Cha (Sungkyunkwan University); Taesup Moon (Sungkyunkwan University)*

1897: Modeling Coherence for Discourse Neural Machine Translation
Hao Xiong (Baidu)*; Zhongjun He (Baidu); Hua Wu (Baidu, Inc.); Haifeng Wang (Baidu)

1902: MR-NET: Exploiting Mutual Relation for Visual Relationship Detection
Yi Bin (University of Electronic Science and Technology of China)*; Chaofan Tao (Center for Future Media, University of Electronic Science and Technology of China); Yang Yang (University of Electronic Science and Technology of China); Zi Huang (University of Queensland); Jingjing Li (University of Electronic Science and Technology of China); Heng Tao Shen (University of Electronic Science and Technology of China (UESTC))

1915: Deeply Fusing Reviews and Contents for Cold Start Users in Cross-Domain Recommendation System
Wenjing Fu (Shandong University)*; Zhaohui Peng (Shandong University); Senzhang Wang (Nanjing University of Aeronautics and Astronautics); yang xu (Shandong University); Jin Li (ljin@mail.sdu.edu.cn)

1916: Transferable Attention for Domain Adaptation
Ximei Wang (Tsinghua University); Liang Li (School of Software, Tsinghua University); Weirui Ye (Tsinghua University); Mingsheng Long (Tsinghua University)*; Jianmin Wang ("Tsinghua University, China")

1919: Selecting Compliant Agents for Opt-in Micro-Tolling
Josiah Hanna (UT Austin)*; Guni Sharon (Texas A&M University); Peter Stone ((organization)); Stephan Boyles (UT Austin)

1924: Non-Autoregressive Neural Machine Translation with Enhanced Decoder Input
Junliang Guo (USTC)*; Xu Tan (Microsoft Research); Di He (Peking University); Tao Qin (Microsoft Research Asia); Linli Xu (University of Science and Technology China); Tieyan Liu ()

1925: Towards Sentence-Level Brain Decoding with Distributed Representations
Jingyuan Sun (Institute of Automation, Chinese Academy of Sciences)*; Shaonan Wang (CASIA); Jiajun Zhang (Institute of Automation Chinese Academy of Sciences); Chengqing Zong ("Institute of Automation, Chinese Academy of Sciences")

1933: A Human-like Semantic Cognition Network for Aspect-level Sentiment Classification
Zeyang Lei (Tsinghua university)*; Yujiu Yang (Tsinghua Univ.); Min Yang (The University of Hong Kong); Wei Zhao (Tecent); Jun Guo (Tsinghua University); Yi Liu (Peking University Shenzhen Institute)

1935: Synergistic Image and Feature Adaptation: Towards Cross-Modality Domain Adaptation for Medical Image Segmentation
Cheng Chen (The Chinese University of Hong Kong)*; Qi Dou (The Chinese University of Hong Kong); Hao Chen (The Chinese University of Hong Kong); Jing Qin (The Hong Kong Polytechnic University); Pheng-Ann Heng (The Chinese Univsersity of Hong Kong)

1939: A Unified Approach to Online Matching with Conflict-Aware Constraints
Pan Xu (University of Maryland)*; Yexuan Shi (Beihang University); Hao Cheng (Beihang University); John P Dickerson (University of Maryland); Karthik Abinav Sankararaman (University of Maryland College Park); Aravind Srinivasan (University of Maryland College Park); Yongxin Tong (Beihang University); Leonidas Tsepenekas (University of Maryland)

1946: A Generic Approach for Accelerating Belief Propagation based DCOP Algorithms via A Branch-and-Bound Technique

Ziyu Chen (Chongqing University)*; Xingqiong Jiang (Chongqing University); Yanchen Deng (Chongqing University); Dingding Chen (Chongqing University); Zhongshi He (Chongqing University)

1951: Non-ergodic Convergence Analysis of Heavy-Ball Algorithms
Tao Sun (National U. of Defense Tech.)*; Penghang Yin (UCLA); Dongsheng Li (School of Computer Science, National University of Defense Technology); Chun Huang (NUDT); Lei Guan (National U. of Defense Tech.); Hao Jiang (National University of Defense Technology)

1955: Joint Dynamic Pose Image and Space Time Reversal for Human Action Recognition from Videos
Mengyuan Liu (Nanyang Technological University)*; Fanyang Meng (key Laboratory of Machine Perception, Peking University, Shenzhen Graduate School); Chen Chen (University of North Carolina at Charlotte); Songtao Wu (College of Computer Science and Software Engineering, Shenzhen University)

1960: Training Deep Neural Networks in Generations: A More Tolerant Teacher Educates Better Students
Chenglin Yang (Johns Hopkins University); Lingxi Xie (Johns Hopkins University)*; Siyuan Qiao (Johns Hopkins University); Alan Yuille (Johns Hopkins University)

1979: Read + Verify: Machine Reading Comprehension with Unanswerable Questions
Minghao Hu (National University of Defense Technology)*; Furu Wei (Microsoft Research Asia); Yuxing Peng (National University of Defense Technology); Zhen Huang (National Laboratory for Parallel and Distributed Processing, National University of Defense Technology,Changsha,Hunan); Nan Yang (Microsoft Research Asia); Dongsheng Li (School of Computer Science, National University of Defense Technology)

1984: Forming Probably Stable Communities with Limited Interactions
Ayumi Igarashi (Kyushu University)*; Jakub Sliwinski (ETH Zurich); Yair Zick (National University of Singapore)

1990: From Zero-Shot Learning to Cold-Start Recommendation
Jingjing Li (University of Electronic Science and Technology of China)*; Mengmeng Jing (University of Electronic Science and Technology of China); Ke Lu (University of Electronic Science and Technology of China); Lei Zhu (Shandong Normal Unversity); Yang Yang (University of Electronic Science and Technology of China); Zi Huang (University of Queensland)

1991: Detect or Track: Towards Cost-Effective Video Object Detection/Tracking
Hao Luo (Huazhong Univ. of Science and Technology); Wenxuan Xie (Microsoft Research Asia)*; Xinggang Wang (Huazhong Univ. of Science and Technology); Wenjun Zeng (Microsoft Research)

1993: Segregated Temporal Assembly Recurrent Networks for Weakly Supervised Multiple Action Detection
Yunlu Xu (Hikvision Research Institute)*; Chengwei Zhang (Shanghai Jiaotong University); Zhanzhan Cheng (Hikvision Research Institute); Jianwen Xie (Hikvision); Yi Niu (Hikvision Research Institute); Shiliang Pu (Hikvision Research Institute); Fei Wu (Zhejiang University)

2007: Response Generation by Context-aware Prototype Editing
Yu Wu (Beihang)*; Furu Wei (Microsoft Research Asia); Shaohan Huang (Microsoft Research Asia); Yunli Wang (Beihang University); Ming Zhou (Microsoft Research); Zhoujun Li (Beihang University)

2012: Explicit Interaction Model towards Text Classification
Cunxiao Du (Shandong University); Fuli Feng (National University of Singapore); Zhaozheng Chen (Shandong University); Lei Zhu (Shandong Normal Unversity); Tian Gan (Shandong University)*; Liqiang Nie (Shandong University)

2013: A Theoretically Guaranteed Deep Optimization Framework for Robust Compressive Sensing MRI
Risheng Liu (Dalian University of Technology)*; Yuxi Zhang (Dalian University of Technology); Shichao Cheng (Dalian University of Technology); Xin Fan (Dalian University of Technology); Zhongxuan Luo (DALIAN UNIVERSITY OF TECHNOLOGY)

2022: Dictionary-Guided Editing Networks for Paraphrase Generation
Shaohan Huang (Microsoft Research Asia)*; Yu Wu (Beihang); Furu Wei (Microsoft Research Asia); Zhongzhi Luan (Beihang University)

2024: Unsupervised Transfer Learning for Spoken Language Understanding in Intelligent Agents
Aditya Siddhant (Carnegie Mellon University)*; Anuj Kumar Goyal (Amazon); Angeliki Metallinou (Amazon)

2025: M2Det: A Single-Shot Object detector based on Multi-Level Feature Pyramid Network
Qijie Zhao (Peking University); Tao Sheng (Peking University); Yongtao Wang (Peking University)*; Zhi Tang (Peking University); Ling Cai (Alibaba AI Lab); Ying Chen (Alibaba AI Lab); Haibin Ling (Temple University)

2036: Leveraging observations in bandits: Between risks and benefits
Andrei Lupu (McGill University)*; Audrey Durand (McGill University); Doina Precup (McGill University)

2061: Two-Stage Label Embedding via Neural Factorization Machine for MultiLabel Classification
Chen Chen (Zhejiang University)*; Haobo Wang (Zhejiang University); Weiwei Liu (University of New South Wales); Xingyuan Zhao (Zhejiang University); Tianlei Hu (Zhejiang University); Gang Chen (Zhejiang University)

2065: Towards Highly Accurate and Stable Face Alignment for High-Resolution Videos
Ying Tai (Tencent)*; Yicong Liang (Tencent); Xiaoming Liu (Michigan State University); Lei Duan (Fudan University); Jilin Li (Tencent); Chengjie Wang (Tencent); Feiyue Huang (Tencent); Yu Chen (Nanjing University of Science and Technology)

2070: Backbone Can Not be Trained at Once: Rolling Back to Pre-trained Network for Person Re-Identification
Youngmin Ro (Seoul National University)*; Jongwon Choi (Samsung SDS); Dae Ung Jo (Seoul National University); Byeongho Heo (Seoul National University); Jongin Lim (Seoul National University); Jin Young Choi (Seoul National University)

2071: Super Sparse Convolutional Neural Networks
Yao Lu (Harbin Institute of Technology (Shenzhen), Shenzhen); Guangming Lu (Harbin Institute of Technology (Shenzhen), Shenzhen)*; Bob Zhang (University of Macau); Yuanrong Xu (Harbin Institute of Technology (Shenzhen), Shenzhen); Jinxing Li (Hong Kong Polytechnic University)

2080: Discriminative Feature Learning for Unsupervised Video Summarization
Yunjae Jung (KAIST)*; Donghyeon Cho (KAIST); Dahun Kim (KAIST); Sanghyun Woo (KAIST); In So Kweon (KAIST, Korea)

2081: SVM-based Deep Stacking Networks
Jingyuan Wang (Beihang University)*; Kai Feng (Beihang Unversity); Junjie Wu (Beihang University)

2087: View Inter-Prediction GAN: Unsupervised Representation Learning for 3D Shapes by Learning Global Shape Memories to Support Local View Predictions
Zhizhong Han (University of Maryland, College Park); Mingyang Shang (Tsinghua University); Yu-Shen Liu (Tsinghua University)*; Matthias Zwicker (University of Maryland)

2101: MeshNet: Mesh Neural Network for 3D Shape Representation
Yutong Feng (Tsinghua University)*; Yifan Feng (Xiamen University); Haoxuan You (Tsinghua University); Xibin Zhao (Tsinghua University); Yue Gao (Tsinghua University)

2109: Clipped Matrix Completion: a Remedy for Ceiling Effects
Takeshi Teshima (The University of Tokyo)*; Miao Xu (RIKEN); Issei Sato (The university of Tokyo/RIKEN); Masashi Sugiyama (RIKEN/The University of Tokyo)

2135: Cousin Network Guided Sketch Recognition via Latent Attribute Warehouse
Kaihao Zhang (Australian National University)*; Wenhan Luo (Tencent AI Lab); Lin Ma (Tencent AI Lab); HONGDONG LI (Australian National University, Australia)

2144: The Complexity of Computing Fair Knapsack

Till Fluschnik (TU Berlin)*; Skowron Piotr (University of Warsaw); Mervin Triphaus (TU Berlin); Kai Wilker (TU Berlin)

2145: Balanced Sparsity for Efficient DNN Inference on GPU
Zhuliang Yao (Tsinghua University)*; Shijie Cao (Harbin Institute of Technology); Wencong Xiao (Beihang University); Lanshun Nie (Harbin Institute of Technology); Chen Zhang (Microsoft Research)

2158: A Two-Individual Based Evolutionary Algorithm for the Flexible Job Shop Scheduling Problem
Junwen Ding (Huazhong University of Science and Technology)*; Zhipeng Lü (School of Computer Science and Technology, Huazhong University of Science and Technology); Chumin Li (Université de Picardie Jules Verne); Liji Shen (WHU - Otto Beisheim School of Management); Liping Xu (School of Computer Science and Technology, Huazhong University of Science and Technology); Fred Glover (University of Colorado)

2159: Re2EMA: Regularized and Reinitialized Exponential Moving Average for Target Model Update in Object Tracking
Jianglei Huang (University of Science and Technology of China)*; Wengang Zhou (University of Science and Technology of China)

2170: On Rational Delegations in Liquid Democracy
Daan Bloembergen (Centrum Wiskunde & Informatica)*; Grossi Davide (Universiteit van Groningen); Lackner Martin (Technische Universität Wien)

2186: Probabilistic Model Checking of Robots Deployed in Extreme Environments
Xingyu Zhao (Heriot-Watt University)*; Valentin Robu (Heriot-Watt University); David Flynn (Heriot-Watt University); Fateme Dinmohammadi (Heriot-Watt University); Michael Fisher (University of Liverpool); Matt Webster (University of Liverpool)

2189: Joint Representation Learning for Multi-Modal Transportation Recommendation
Hao LIU (Business Intelligence Lab, Baidu Research)*; Ting Li (School of Computer Science, National University of Defense Technology, Changsha, China); Renjun Hu (Beihang University); Yanjie Fu (Missouri University of Science and Technology); Hui Xiong (Rutgers University); Jingjing Gu (Nanjing University of Aeronautics and Astronautics)

2190: Active Preference Elicitation based on Generalized Gini Functions: Application to the Multiagent Knapsack Problem
Nadjet Bourdache (LIP6); Patrice Perny (Sorbonne University)*

2192: Recurrent Stacking of Layers for Compact Neural Machine Translation Models
Raj Dabre (NICT)*; Atsushi Fujita (NICT, Japan)

2198: Dynamic Compositionality in Recursive Neural Networks with Structure-aware Tag Representations
Taeuk Kim (Seoul National University)*; Jihun Choi (Seoul National University); Dainel Edmiston (University of Chicago); Sanghwan Bae (Seoul National University); Sang-goo Lee (Seoul National University)

2201: Memory-Augmented Temporal Dynamic Learning for Action Recognition
Yuan Yuan (Northwestern Polytechnical University); Dong Wang (Northwestern Polytechnical University); Qi Wang (Northwestern Polytechnical University)*

2210: Calibrated Stochastic Gradient Descent for Convolutional Neural Networks
Li'an Zhuo (Beihang University); Baochang Zhang (Beihang University); Chen Chen (University of North Carolina at Charlotte)*; David Doermann (University at Buffalo); Jianzhuang Liu (Noah's Ark Lab, Huawei Technologies Company, Ltd., China); Qixiang Ye (University of Chinese Academy of Sciences, China)

2230: Video Object Detection with Locally-Weighted Deformable Neighbors
Zhengkai Jiang (Institute of Automation,   Chinese Academy of Sciences)*; gao peng (Chinese university of hong kong); Chaoxu Guo (Institute of Automation, Chinese Academy of Sciences); Qian Zhang (Horizon Robotics); SHIMING XIANG (Chinese Academy of Sciences, China); Chunhong Pan (Institute of Automation, Chinese Academy of Sciences)

2254: Fair Division with a Secretive Agent
Eshwar Ram Arunachaleswaran (Indian Institute of Science); Siddharth Barman (Indian Institute of Science); Nidhi Rathi (Indian Institute of Science)*

2259: Play As You Like: Timbre-Enhanced Multi-modal Music Style Transfer
Chien-Yu Lu (National Tsing Hua University); Min-Xin Xue (National Tsing Hua University); Chia-Che Chang (National Tsing Hua University); Che-Rung Lee (National Tsing Hua University); Li Su (Academia Sinica)*

2277: Temporal Deformable Convolutional Encoder-Decoder Networks for Video Captioning
Jingwen Chen (Sun Yat-set University); Yingwei Pan (JD AI Research)*; Yehao Li (Sun Yat-Sen University); Ting Yao (JD AI Research); Hongyang Chao (Sun Yat-sen University); Tao Mei (AI Research of JD.com)

2278: Visual-semantic Graph Reasoning for Pedestrian Attribute Recognition
Qiaozhe Li (Chinese Academy of Sciences)*; Xin Zhao (Institute of Automation, Chinese Academy of Sciences); Ran He (Institute of Automation, Chinese Academy of Sciences); KAIQI HUANG (Chinese Academy of Sciences, China)

2291: Semantic Relationships Guided Representation Learning for Facial Action Unit Recognition

Guanbin Li (Sun Yat-sen University)*; Xin Zhu (Sun Yat-sen University); Yirui Zeng (Sun Yat-sen University); Qing Wang (Sun Yat-sen University); Liang Lin (Sun Yat-sen University)

2297: Connecting the Digital and Physical World: Improving the Robustness of Adversarial Attacks
Steve T K Jan (Virginia Tech); Joseph Messou (Virginia Tech); Yen-Chen Lin (National Tsing Hua University); Jia-Bin Huang (Virginia Tech); Gang Wang (Virginia Tech)*

2298: Abstracting Causal Models
Sander Beckers (Utrecht University)*; Joe Halpern ()

2303: Trainable Undersampling for Class-Imbalance Learning
Minlong Peng (Fudan University)*; Qi Zhang (Fudan University); Xiaoyu Xing (Fudan University); Tao Gui (Fudan University); Xuanjing Huang (" Fudan University, China"); Yu-Gang Jiang (Fudan University); Keyu Ding (iFLYTEK CO., LTD); Zhigang Chen (iFLYTEK CO., LTD)

2311: On Limited Conjunctions and Partial Features\\ in Parameter-tractable Feature Logics
Grant Weddell (Waterloo)*; David Toman (University of Waterloo); Alex Borgida (Rutgers University); Stephanie McIntyre (University of Waterloo)

2326: Scalable and Efficient   Pairwise Learning to Achieve Statistical Accuracy
Bin Gu (Pittsburgh University)*; Zhouyuan Huo (University of Pittsburgh); Heng Huang (University of Pittsburgh)

2327: Large-scale Interactive Recommendation with Tree-structured Policy Gradient
Haokun Chen (Shanghai Jiao Tong University)*; Xinyi Dai (Shanghai Jiao Tong University); Weinan Zhang (Apex Data & Knowledge Management Lab, Shanghai Jiao Tong University); Han Cai (Shanghai Jiao Tong University); Xuejian Wang (Shanghai Jiao Tong University); Ruiming Tang (Noah's Ark Research Lab, Huawei); Yuzhou Zhang (Noah's Ark Research Lab, Huawei); Yong Yu (Shanghai Jiao Tong University)

2329: Adversarial Learning of Semantic Relevance in Text to Image Synthesis
Miriam Cha (Harvard University)*; Youngjune Gwon (Harvard University); H.T. Kung (Harvard University)

2331: Unsupervised Cross-spectral Stereo Matching by Learning to Synthesize
Mingyang Liang (Beihang University); Xiaoyang Guo (The Chinese University of Hong Kong)*; You Song (Beihang University); Hongsheng Li (Chinese University of Hong Kong); Xiaogang Wang (Chinese University of Hong Kong, Hong Kong)

2333: Goal-oriented Dialogue Policy Learning from Failures
Keting Lu (School of Computer Science, University of Science and Technology of China)*; Shiqi Zhang (SUNY Binghampton); Xiaoping Chen (University of Science and Technology of China)

2340: Incorporating Commonsense Knowledge for Story Completion
Jiaao Chen (Zhejiang University)*; Jianshu Chen (Tencent); Zhou Yu (UC Davis)

2344: The SpectACl of Nonconvex Clustering: A Spectral Approach to Density-Based Clustering
Sibylle Hess (TU Dortmund)*; Wouter Duivesteijn (TU Eindhoven); Philipp Honysz (TU Dortmund); Katharina Morik (TU Dortmund)

2345: CNN-Cert: An Efficient Framework for Certifying Robustness of Convolutional Neural Networks
Akhilan Boopathy (MIT); Lily Weng (MIT)*; Pin-Yu Chen (IBM Research); Sijia Liu (IBM); Luca Daniel (MIT)

2351: Anytime Recursive Best-First Search for Bounding Marginal MAP
Radu Marinescu (IBM)*; Rina Dechter (UC Irvine); Alexander Ihler (UC Irvine); Akihiro Kishimoto (IBM Research, Ireland); Adi Botea (IBM Research)

2359: Policy Optimization with Model-based Explorations
Feiyang Pan (Institute of Computing Technology, Chinese Academy of Sciences)*; Qingpeng Cai (IIIS, Tsinghua University); An-Xiang Zeng (Alibaba); Chun-Xiang Pan (Alibaba company); Qing Da (Alibaba Group); Hualin He (Alibaba Group); Qing He (Institute of Computing Technology, Chinese Academy of Sciences); Pingzhong Tang (Tsinghua University)

2360: AutoZOOM: Autoencoder-based Zeroth Order Optimization Method for Attacking Black-box Neural Networks
Chun-Chen Tu (University of Michigan); Pai-Shun Ting (UMICH); Pin-Yu Chen (IBM Research)*; Sijia Liu (IBM); Huan Zhang (UCLA); Jinfeng Yi (JD AI Research); Cho-Jui Hsieh (UCLA, Google Research); Shin-Ming Cheng (National Taiwan University of Science and Technology)

2371: Unsupervised learning with contrastive latent variable models
Kristen Severson (IBM Research)*; Soumya Ghosh (IBM Research); Kenney Ng (IBM Research)

2372: Semi-Parametric Sampling for Stochasitc Bandits with Many Arms
Mingdong Ou (Alibaba)*; Nan Li (Alibaba); Cheng Yang (Alibaba Group); Shenghuo Zhu (Alibaba Group); rong jin (alibaba group)

2374: Predicting Urban Dispersal Events: A Two-Stage Framework through Deep Survival Analysis on Mobility Data
Amin Vahedian Khezerlou (The University of Iowa)*; Xun Zhou (University of Iowa); Ling Tong (The University of Iowa); W. Nick Street (The University of Iowa); Yanhua Li ("Worcester Polytechnic Institute, USA")

2375: Combining Deep Learning and Qualitative Spatial Reasoning to Learn Complex Structures from Sparse Examples with Noise

Nikhil Krishnaswamy (Brandeis University)*; Scott Friedman (SIFT); James Pustejovsky (Brandeis University)

2389: Fully Convolutional Video Captioning with Coarse-to-Fine and Inherited Attention
Kuncheng Fang (Fudan University)*; Lian Zhou (Fudan University); Cheng Jin (Fudan University); Yuejie Zhang (Fudan University); Kangnian Weng (Shanghai University of Finance and Economics); Tao Zhang (Shanghai University of Finance and Economics); Weiguo Fan (University of Iowa)

2391: Optimal approximation of discrete random variables for estimation of probabilities for missing deadlines
Liat Cohen (Ben-Gurion University of the Negev)*; Gera Weiss (Ben-Gurion University of the Negev)

2399: CAFE: Adaptive VDI Workload Prediction with Multi-Grained Features
Yao Zhang (VMWare); Wenping Fan (VMWare Inc.); Xuan Wu (Southeast University); Hua Chen (VMWare Inc.); Binyang Li (VMWare Inc.); Min-Ling Zhang (School of Computer Science and Engineering, Southeast University)*

2402: A Better Algorithm for Societal Tradeoffs
Hanrui Zhang (Duke University)*; Yu Cheng (Duke University); Vincent Conitzer (Duke)

2403: Optimization of Hierarchical Regression Model With Application to Optimizing Multi-Response Regression Trees
Pooya Tavallali (UC Merced); Peyman Tavallali (Caltech); Mukesh Singhal (UC Merced)*

2405: Very Hard Electoral Control Problems
Zack Fitzsimmons (College of the Holy Cross)*; Edith Hemaspaandra (Rochester Institute of Technology); Alexander Hoover (University of Chicago); David Narvaez (Rochester Institute of Technology)

2407: How to Combine Tree-Search Methods in Reinforcement Learning
Yonathan Efroni (Technion)*; Gal Dalal (); Bruno Scherrer (Inria); Shie Mannor (Technion)

2409: What Should I Learn First: Introducing LectureBank for NLP Education and Prerequisite Chain Learning
Irene Li (Yale University)*; Alexander R Fabbri (Yale University); Robert R Tung (Yale University); Dragomir Radev (Yale University)

2416: A Unified Framework for Planning in Adversarial and Cooperative Environments
Anagha Kulkarni (Arizona State University)*; Siddharth Srivastava (Arizona State University); Subbarao Kambhampati (Arizona State University)

2433: State-Augmentation Transformations for Risk-Sensitive Reinforcement Learning

Shuai Ma (Concordia University)*; Jia Yuan Yu (Concordia University)

2458: Eliminating Latent Discrimination: Train Then Mask
Soheil Ghili (Yale); Ehsan Kazemi (Yale Institute for Network Science, Yale)*; Amin Karbasi (Yale)

2477: Number Sequence Prediction Problems for Evaluating Computational Powers of Neural Networks
Hyoungwook Nam (Seoul National University)*; segwang Kim (Seoul National University); Kyomin Jung (Seoul National University, Samsung R&D Institute India)

2483: Scalable Robust Kidney Exchange
Duncan C McElfresh (University of Maryland)*; John P Dickerson (University of Maryland); Hoda Bidkhori (University of Pittsburgh)

2485: SepNE: Bringing Separability to Network Embedding
Ziyao Li (Peking University)*; Liang Zhang (Peking University); guojie song (PKU, China)

2498: Improving Natural Language Inference Using External Knowledge in the Science Questions Domain
Xiaoyan Wang (University of Illinois, Urbana-Champaign); Pavan Kapanipathi (IBM Research)*; Ryan Musa (IBM Research); Mo Yu (IBM T. J. Watson); Kartik Talamadupula (IBM); Ibrahim Abdelaziz (IBM Research); Maria Chang (IBM Research); Achille Fokoue (IBM Research); Bassem Makni (IBM Research); Nicholas Mattei (IBM Research); Michael J Witbrock (IBM Research)

2508: Learning Anytime Predictions in Neural Networks via Adaptive Loss Balancing
Hanzhang Hu (Carnegie Mellon University)*; Debadeepta Dey (Microsoft); Martial Hebert (Carnegie Mellon School of Computer Science); J. Andrew Bagnell (Carnegie Mellon University, USA)

2511: Evolution of collective fairness in hybrid populations of humans and agents
Fernando P. Santos (INESC-ID & Instituto Superior Tecnico, University of Lisbon)*; Jorge Pacheco (CBMA & University of Minho); Ana Paiva (INESC-ID U of Lisbon); Francisco Santos (INESC-ID & Instituto Superior Tecnico, University of Lisbon)

2522: Knowledge Refinement via Rule Selection
Phokion Kolaitis (UCSC & IBM Research - Almaden); Lucian Popa (IBM Almaden Research Center); Kun Qian (IBM Research - Almaden)*

2527: Defending Elections Against Malicious Spread of Misinformation
Bryan Wilder (University of Southern California)*; Yevgeniy Vorobeychik (Washington University in Saint Louis)

2545: Learning to Teach in Cooperative Multiagent Reinforcement Learning

Shayegan Omidshafiei (MIT)*; Dong Ki Kim (MIT); Miao Liu (IBM); Gerald Tesauro (IBM Research); Matthew D Riemer (IBM Research); Chris Amato (Northeastern University); Murray Campbell (IBM Research); Jonathan How (MIT)

2553: Image Block Augmentation for One-Shot Learning
Zitian Chen (Fudan University); Yanwei Fu (Fudan Univertiy; Altrics Inc.)*; Kaiyu Chen (Fudan University); Yu-Gang Jiang (Fudan University)

2571: Online Embedding Compression for Text Classification using Low Rank Matrix Factorization
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3315: EnsNet: Ensconce Text in the Wild
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3316: A Framework for Approval-based Budgeting Methods
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3325: Data-Adaptive Metric Learning with Scale Alignment
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3343: Iterative Classroom Teaching
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3347: ReAl-LiFE: Accelerating the discovery of individualized brain connectomes on GPUs
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3350: A Powerful Global Test Statistic for Functional Statistical Inference
Jingwen Zhang (University of North Carolina at Chapel Hill); Joseph Ibrahim (University of North Carolina at Chapel Hill); Tengfei Li (MD Anderson Cancer Center); Hongtu Zhu (UNC Chapel Hill)*

3351: Approximation and Hardness of Shift-Bribery
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3362: Learning Attribute-Specific Representations for Visual Tracking
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3367: Multi-Interactive Memory Network for Aspect Based Multimodal Sentiment Analysis
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3375: Learning Non-Uniform Hypergraph for Multi-Object Tracking

Longyin Wen (JD Finance)*; Dawei Du (University at Albany, SUNY); Shengkun Li (SUNY Albany); Xiao Bian (GE Global Research); Siwei Lyu (SUNY Albany)

3384: A Multi-Agent Communication Framework for Question-Worthy Phrase Extraction and Question Generation
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3393: Dependency Grammar Induction with a Neural Variational Transition-Based Parser
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3395: How Similar Are Two Elections?
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3401: Exploiting Sentence Embedding for Medical Question Answering
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3404: Temporal Bilinear Networks for Video Action Recognition
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3408: Exploring Lexical Knowledge in an Interpretable Composed Approach for Text Entailment
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3417: Learning the Optimal Strategy to Commit to
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3427: INTERPRETATION OF NEURAL NETWORKS IS FRAGILE
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3441: Meta-descent for online, continual prediction
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3453: Hotels-50K: A Global Hotel Recognition Dataset
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3455: Submodular Optimization Over Streams with Inhomogeneous Decays
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3463: Weisfeiler and Leman Go Neural: Higher-order Graph Neural Networks
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3467: Bayesian Deep Collaborative Matrix Factorization
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3468: Learning Object Context for Dense Captioning
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3483: Preference-Aware Task Assignment in On-demand Taxi Dispatching: An Online Stable Matching Approach
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3489: Deep Cascade Multi-task Learning for Slot Filling in Online Shopping Assistant
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3490: A Grammar-Based Structural CNN Decoder for Code Generation
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3497: Building Causal Graphs from Medical Literature and Electronic Medical Records
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3507: Generating Live Soccer-Match Commentary from Play Data
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3515: Communication Efficient Stochastic Gradient MCMC for Neural Networks
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3526: Multi-order Attentive Ranking Model for Sequential Recommendation
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3529: Training Complex Models with Multi-Task Weak Supervision
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3538: Learning a Visual Tracker from a Single Movie without Annotation
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3574: Image Saliency Prediction in Transformed Domain: A Deep Complex Neural Network Method
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3583: Multi-Matching Network for Multiple Choice Reading Comprehension
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3586: Blameworthiness in Multi-Agent Settings
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3606: A Comparative Analysis of Expected and Distributional Reinforcement Learning
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3610: Dynamic Capsule Attention for Visual Question Answering
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3612: State Abstraction as Compression in Apprenticeship Learning
David Abel (Brown University)*; Dilip Arumugam (Stanford University); Kavosh Asadi (Brown University); Yuu Jinnai (Brown University); Michael L. Littman (Brown University); Lawson Wong (Northeastern University)

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3619: Depth prediction without the sensors: Leveraging structure for unsupervised learning from monocular videos
Vincent Casser (Harvard University); Soeren Pirk (Google); Reza Majhourian (UT Austin); Anelia Angelova (Google)*

3622: Deep Convolutional Sum-Product Networks
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3625: Deep Metric Learning by Online Soft Mining and Class-Aware Attention
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3627: Adversarial Unsupervised Representation Learning for Activity Time-Series
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3633: Generalized Batch Normalization
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3659: Interactive Semantic Parsing for If-Then Recipes via Hierarchical Reinforcement Learning
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3669: CycleEmotionGAN: Emotional Semantic Consistency Preserved CycleGAN for Adapting Image Emotions
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3724: Interpreting Deep Models for Text Analysis via Optimization and Regularization Methods
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3752: Explicitly Imposing Constraints in Deep Networks Via Conditional Gradients Gives Improved Generalization and Faster Convergence
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3753: On-line Adaptative Curriculum Learning for GANs
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3773: Multistream Classification with Relative Density Ratio Estimation
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3782: Bayesian functional optimisation with shape prior
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3783: From Recommendation Systems to Facility Location Games
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3795: Violence Rating Prediction from Movie Scripts
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3797: Task Embedded Coordinate Update: A Realizable Framework for Multivariate Non-convex Optimization

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3805: "Reverse Gerrymandering": Manipulation in Multi-Group Decision Making
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3868: Dynamic Layer Aggregation for Neural Machine Translation
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3873: Natural Option Critic

Saket Tiwari (University of Massachusetts, Amherst)*; Philip Thomas (University of Massachusetts Amherst)

3875: Random Feature Maps for Itemset Kernel
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3877: Symmetry Breaking Constraints for Grid-based Multi-Agent Path Finding
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3886: Fair and Efficient Memory Sharing: Confronting Free Riders
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3904: Dynamic Spatial-Temporal Graph Convolutional Neural Networks for Traffic Forecasting
zu long diao (The State university of New York)*; xin wang (Department of Electrical and Computer Engineering, Stony Brook University); Dafang Zhang (hunan university); Yingru Liu (Stony Brook University); kun xie (Hunan University); shaoyao he (Hunan University)

3912: Deep Robust Unsupervised Multi-Modal Network
Yang Yang (Nanjing University); Yi-Feng Wu (Nanjing University); De-Chuan Zhan (Nanjing University)*; Zhi-Bin Liu (Tecent WXG); Yuan Jiang (Nanjing University)

3914: Interleave Variational Optimization with Monte Carlo Sampling: A Tale of Two Approximate Inference Paradigms
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3916: Declarative Question Answering over Knowledge Bases containing Natural Language Text with Answer Set Programming
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3922: Probabilistic Logic Programming with Beta-Distributed Random Variables
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3927: Embedding-based Complex Feature Value Coupling Learning for Detecting Outliers in Non-IID Categorical Data

Hongzuo Xu (College of Computer, National University of Defense Technology)*; Yongjun Wang (College of Computer, National University of Defense Technology); Zhiyue Wu (College of Computer, National University of Defense Technology); Yijie Wang (" National University of Defense Technology, China")

3929: LabelForest: Non-Parametric Semi-Supervised Learning for Activity Recognition
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3931: Learning Dynamic Generator Model by Alternating Back-Propagation
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3934: Connecting Language to Images: A Progressive Attention-Guided Network for Simultaneous Image Captioning and Language Grounding
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3940: Multi-Level Deep Cascade Trees for Conversion Rate Prediction in Recommendation System
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3958: Congestion Graphs for Automated Time Predictions
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3970: A Topic-Aware Reinforced Model for Weakly Supervised Stance Detection
Penghui Wei (Institute of Automation, Chinese Academy of Sciences)*; Wenji Mao (Institute of Automation, Chinese Academic of Sciences); Guandan Chen (Institute of Automation, Chinese Academic of Sciences)

3975: Heuristic Search Algorithm for Dimensionality Reduction Optimally Combining Feature Selection and Feature Extraction
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3978: DeepCF: A Unified Framework of Representation Learning and Matching Function Learning in Recommender System
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3999: Random Dictators with a Random Referee: Constant Sample Complexity Mechanisms for Social Choice
Brandon T Fain (Duke University)*; Ashish Goel (Stanford University); Kamesh Munagala (Duke University); Nina Prabhu (North Carolina School of Science and Mathematics)

4013: Answer Identification from Product Reviews for User Questions by Multi-task Attentive Networks
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4020: Exploiting Local Feature Patterns for Unsupervised Domain Adaptation
Jun Wen (Zhejiang University)*; Nenggan Zheng (Zhejiang University); Risheng Liu (Dalian University of Technology); Qian Dr. Zheng (Zhejiang University, China); Zhefeng Gong (Zhejiang University); Junsong Yuan ("State University of New York at Buffalo, USA")

4024: Weakly-Supervised Hierarchical Text Classification
Yu Meng (University of Illinois at Urbana-Champaign)*; Jiaming Shen (University of Illinois at Urbana-Champaign); Chao Zhang (University of Illinois, Urbana Champaign); Jiawei Han (UIUC)

4025: Convex Formulations for Fair Principal Component Analysis
Mahbod Olfat (UC Berkeley)*; Anil Aswani (UC Berkeley)

4026: Acting and Planning Using Operational Models
Sunandita Patra (University of Maryland, College Park)*; Malik Ghallab (LAAS-CNRS); Dana Nau (University of Maryland); Paolo Traverso (Fondazione Bruno Kessler (FBK))

4029: Learning Transferable Self-attentive Representations for Action Recognition in Untrimmed Videos with Weak Supervision
Xiao-Yu Zhang (Institute of Information Engineering, Chinese Academy of Sciences); Haichao Shi (Institute of Information Engineering, Chinese Academy of Sciences)*; Changsheng Li (University of Electronic Science and Technology of China); Xiaobin Zhu (Beijing Technology and Business University); Lixin Duan (University of Electronic Science and Technology of China); Kai Zheng (University of Electronic Science and Technology of China)

4035: Compiling Bayesian Network Classifiers into Decision Graphs
Andy Shih (UCLA)*; Arthur Choi (UCLA); Adnan Darwiche (UCLA)

4039: ACE: An Actor Ensemble Algorithm for Continuous Control with Tree Search
Shangtong Zhang (University of Alberta)*; Hengshuai Yao (Huawei Technologies)

4041: Partial Label Learning via Label Enhancement
Ning Xu ()*; Jiaqi Lv (Southeast University); Xin Geng (Southeast University)

4044: DialogueRNN: An Attentive RNN for Emotion Detection in Conversations
Navonil Majumder (IPN, Mexico); Soujanya Poria (Nanyang Technological University)*; Devamanyu Hazarika (NUS, Singapore); Rada Mihalcea (University of Michigan); Erik Cambria (Nanyang Technological University, Singapore); Alexander Gelbukh (Instituto Politécnico Nacional)

4047: Learning Fully Dense Neural Networks for Image Semantic Segmentation
Mingmin Zhen (Hong Kong University of Science and Technology)*; Jinglu Wang (HKUST); Lei Zhou (HKUST); Tian Fang (HKUST); Long Quan (Hong Kong University of Science and Technology)

4048: Robust Deep Co-Saliency Detection with Group Semantic
Chong Wang (Institute of Intelligent Machines, Chinese Academy of Sciences); Zheng-Jun Zha (University of Science and Technology of China)*; Dong Liu (University of Science and Technology of China); Hongtao Xie (University of Science and Technology of China)

4049: QUOTA: The Quantile Option Architecture for Reinforcement Learning
Shangtong Zhang (University of Alberta)*; Hengshuai Yao (Huawei Technologies)

4052: ParaBank: Monolingual Bitext Generation and Sentential Paraphrasing via Lexically-constrained Neural Machine Translation
J. Edward Hu (Johns Hopkins University)*; Rachel Rudinger (Johns Hopkins University); Matt Post (Johns Hopkins University); Benjamin Van Durme (Johns Hopkins University)

4053: Smooth Deep Image Generator from Noises
Tianyu Guo (Peking University)*; Chang Xu (University of Sydney); Boxin Shi (Peking University); Chao Xu (Peking University); Dacheng Tao (University of Sydney)

4059: Attentive Tensor Product Learning
Qiuyuan Huang (Microsoft Research AI)*; Li Deng (Citadel); Dapeng Wu (University of Florida); Chang Liu (UC Berkeley); Xiaodong He (JD AI Research)

4066: Complex Moment-Based Supervised Eigenmap for Dimensionality Reduction
Akira Imakura (University of Tsukuba)*; Momo Matsuda (University of Tsukuba); Xiucai Ye (University of Tsukuba); Tetsuya Sakurai (University of Tsukuba)

4068: Task-Driven Common Representation Learning via Bridge Neural Network
Xueshuang Xiang (Qian Xuesen Laboratory of Space Technology)*; Yao Xu (Qian Xuesen Laboratory of Space Technology); Meiyu Huang (Qian Xuesen Laboratory of Space Technology, China Academy of Space Technology, Beijing, China)

4074: HAS-QA: Hierarchical Answer Spans Model for Open-domain Question Answering

liang pang (ICT)*; Yanyan Lan (Institute of Computing Technology); Jiafeng Guo (Institute of Computing Technology, Chinese Academy of Sciences); Jun Xu (Renmin University of China); Lixin Su (ICT); Xueqi Cheng (Institute of Computing Technology, CAS, China)

4077: Efficient Data Point Pruning for One-Class SVM
Yasuhiro Fujiwara (NTT Software Innovation Center)*; Sekitoshi Kanai (NTT Software Innovation Center); Junya Arai (NTT); Yasutoshi Ida (NTT); Naonori Ueda (NTT)

4078: R$\(\textrm{S}^3\)$CIS: Robust Single-Step Spectral Clustering with Intrinsic Subspace
Yun Xiao (NorthWest University); Pengzhen Ren (NorthWest University)*; Zhihui Li (University of New South Wales); Xiaojiang Chen (NorthWest University); Xin Wang (NorthWest University); Dingyi Fang (NorthWest University)

4082: Hierarchically Structured Reinforcement Learning for Topically Coherent Visual Story Generation
Qiuyuan Huang (Microsoft Research AI)*; Zhe Gan (Microsoft); Asli Celikyilmaz (Microsoft Research); Dapeng Wu (University of Florida); Jianfeng Wang (Microsoft Research); Xiaodong He (JD AI Research)

4096: Online Convex Optimization for Sequential Decision Processes and Extensive-Form Games
Gabriele Farina (Carnegie Mellon University)*; Christian Kroer (Carnegie Mellon University); Tuomas Sandholm (Carnegie Mellon University)

4105: Dual-view Ranking with Hardness Assessment for Zero-shot Learning
Yuchen Guo (Tsinghua University)*; guiguang ding (Tsinghua University, China); Jungong Han (Lancaster University); Xiaohan Ding (Tsinghua University); Sicheng Zhao (University of California Berkeley); Zheng Wang (University of Science and Technology Beijing); Chenggang Yan (Hangzhou Dianzi University); Qionghai Dai (Tsinghua University)

4114: Generating Character Descriptions for Automatic Summarization of Fiction
Weiwei Zhang (McGill University)*; Jackie Chi Kit Cheung (); Joel Oren (Yahoo! Research)

4115: Image Aesthetic Assessment Assisted by Attributes through Adversarial Learning
Bowen Pan (University of Science and Technology of China); Shangfei Wang (University of Science and Technology of China)*; jiang qi sheng (University of Science and Technology of China)

4120: Hashtag Recommendation for Photo Sharing Services
Suwei Zhang (Nanjing University)*; Yuan Yao (Nanjing University); Feng Xu (Nanjing University); Hanghang Tong (Arizona State University); Xiaohui Yan (Huawei Technologies); Jian Lv (Nanjing University)

4121: Spatial and Temporal Mutual Promotion for Video-based Person Re-identification

Yiheng Liu (University of Science and Technology of China)*; Zhenxun Yuan (Purdue University); Wengang Zhou (University of Science and Technology of China); Houqiang Li (University of Science and Technology of China)

4124: Joint Extraction of Entities and Overlapping Relations using Position-Attentive Sequence Labeling
Dai Dai (Baidu Inc.)*; Xinyan Xiao (Baidu); Yajuan Lyu (Baidu Inc.); Qiaoqiao She (Baidu Inc.); Shan Dou (Tsinghua University); Haifeng Wang (Baidu)

4137: Generating Multiple Diverse Responses for Short-Text Conversation
Jun Gao (Soochow University); Wei Bi (TBD)*; Xiaojiang Liu (Tencent AI Lab); Junhui Li (Soochow University); Shuming Shi (Tencent AI Lab)

4162: Asynchronous Proximal Stochastic Gradient Algorithm for Composition Optimization Problems
Pengfei Wang (Zhejiang University)*; Nenggan Zheng (Zhejiang University); Risheng Liu (Dalian University of Technology); Zhefeng Gong (Zhejiang University)

4175: What If We Simply Swap the Two Text Fragments? A Straightforward yet Effective Way to Test the Robustness of Methods to Confounding Signals in Nature Language Inference Tasks
Haohan Wang (Carnegie Mellon University)*; Da Sun (Southeast University); Eric Xing (Petuum Inc. and CMU)

4176: f-Similarity Preservation Loss for Soft Labels: A Demonstration on Cross-Corpus Speech Emotion Recognition
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4180: A Domain Generalization Perspective on Listwise Context Modeling
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Igor Molybog (UC Berkeley)*; Javad Lavaei (UC Berkeley)

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4206: Neural Collective Graphical Models for Estimating Spatio-temporal Population Flow from Aggregated Data
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4208: Automatic Construction of Parallel Portfolios via Explicit Instance Grouping

Shengcai Liu (University of Science and Technology of China)*; Ke Tang (Southern University of Science and Technology); Xin Yao (Southern University of Science and Technology)

4211: Understanding VAEs in Fisher-Shannon Plane
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4235: Latent Dirichlet Allocation for Internet Price War
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4239: Multiple Saliency and Channel Sensitivity Network for Aggregated Convolutional Feature
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4240: Precision-Recall versus Accuracy and the Role of Large Data Sets
Hai S Le (WASHINGTON UNIVERSITY ST LOUIS)*; Brendan Juba (WASHINGTON UNIVERSITY ST LOUIS)

4246: Exploiting the Ground-Truth: An Adversarial Imitation Based Knowledge Distillation Approach for Event Detection
Jian Liu (IACAS)*; Yubo Chen (Institute of Automation, Chinese Academy of Sciences); Kang Liu (Institute of Automation, Chinese Academy of Sciences)

4250: DeepETA: A Spatial-temporal Sequential Neural Network Model for Estimating Time of Arrival in Package Delivery System
fan wu (Cainiao Ltd.)*; lixia wu (Cainiao Ltd.)

4251: Deep Short Text Classification with Knowledge Powered Attention
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4252: LENA: Locality-Expanded Neural Embedding for Knowledge Base Completion
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4257: Optimizing Discount & Reputation Trade-offs in E-commerce Systems: Characterization and Online Learning

Hong Xie (The Chinese University of Hong Kong)*; Yongkun Li (University of Science and Technology of China); John C. S. Lui (The Chinese University of Hong Kong)

4267: DeepDPM: Dynamic Population Mapping via Deep Neural Network
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4268: Community Focusing: Yet Another Query-Dependent Community Detection
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4277: Weighted Oblique Decision Trees
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4293: Counterfactual Randomization: Rescuing Experimental Studies from Obscured Confounding
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4296: A Layer Decomposition-Recomposition Framework for Neuron Pruning towards Accurate Lightweight Networks
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4297: FLEX: Faithful Linguistic Explanations for Neural Net based Model Decisions
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4306: Markov Random Field meets Graph Convolutional Network: End-to-End Learning for Semi-Supervised Community Detection
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4307: Antonym-Synonym Classification based on New Sub-space Embeddings
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4315: Large-Scale Heterogeneous Feature Embedding
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4320: Curse of Concentration in Robust Learning: Evasion and Poisoning Attacks from Concentration of Measure
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4329: Incorporating Semantic Similarity with Geographic Correlation for Query-POI Relevance Learning
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4335: Multi-CGN: Graph Convolutional Networks for Multi-View Networks, with Applications to Global Poverty
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Zhenhua Lin (UC Davis)*; Hongtu Zhu (UNC Chapel Hill)

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Kai Liu (Colorado School of Mines); Hua Wang (Colorado School of Mines)*; Fei Han (Colorado School of Mines); Hao Zhang (Colorado School of Mines)

4365: Data-Distortion Guided Self-Distillation for Deep Neural Networks
Ting-Bing Xu (Institute of Automation of Chinese Academy of Sciences)*; Cheng-lin liu (Institute of Automation of Chinese Academy of Sciences)

4374: Covariate Shift Adaptation on Learning from Positive and Unlabeled Data
Tomoya Sakai (NEC Corporation)*; Nobuyuki Shimizu (Yahoo Japan Corporation)

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Chen Zhang (Tsinghua University)*; Steven Hoi (SMU)

4379: Understanding Persuasion Cascades in Online Product Rating Systems
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4385: Distributed Representation of Words in Cause and Effect Spaces
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4402: Domain Agnostic Real-Valued Specificity Prediction
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4410: BiHMP-GAN: Bidirectional 3D Human Motion Prediction GAN
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4416: Robust Multi-Agent Reinforcement Learning via Minimax Deep Deterministic Policy Gradient
Shihui Li (Carnegie Mellon); Yi Wu (UC Berkeley)*; Xinyue Cui (Tsinghua University); Honghua Dong (Tsinghua University); Fei Fang (Carnegie Mellon); Stuart Russell (UC Berkeley)

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Juntao Li (Peking University); Lisong Qiu (Peking University); Bo Tang (Southern University of Science and Technology); min D Chen (pku.edu.cn); Dongyan Zhao (Peking University); Rui Yan (Peking University)*

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4435: Learning to Write Creative Stories with Thematic Consistency
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Yan Huang (Institute of Automation, Chinese Academy of Sciences)*; Yang Long (Newcastle University); Liang Wang (NLPR, China)

4454: Pareto Optimization for Subset Selection with Dynamic Cost Constraints
Vahid Roostapour (The University of Adelaide)*; Aneta Neumann (The University of Adelaide, School of Computer Science, Faculty of Engineering, Computer and Mathematical Science); Frank Neumann (The University of Adelaide, School of Computer Science, Faculty of Engineering, Computer and Mathematical Science); Tobias Friedrich (Hasso Plattner Institute)

4455: Modelling of Bi-directional Spatio-Temporal Dependence and Users' Dynamic Preferences for Missing POI Check-in Identification
Dongbo Xi (Institute of Computing Technology, Chinese Academy of Sciences)*; Fuzhen Zhuang (Institute of Computing Technology, Chinese Academy of Sciences); Yanchi Liu (Rutgers University); Jingjing Gu (Nanjing University of Aeronautics and Astronautics); Hui Xiong (the State University of New Jersey); Qing He (Institute of Computing Technology, Chinese Academy of Sciences)

4461: Implicit Argument Prediction as Reading Comprehension
Pengxiang Cheng (The University of Texas at Austin)*; Katrin Erk (University of Texas)

4465: Searching with Consistent Prioritization for Multi-Agent Path Finding
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4477: Self-Ensembling Attention Networks: Addressing Domain Shift for Semantic Segmentation

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4478: Recursively Learning Causal Structures Using Regression-based Conditional Independence Test
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4483: Approximate Kernel Selection with Strong Approximate Consistency
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4495: RecurJac : An Efficient Recursive Algorithm for Bounding Jacobian Matrix of General Neural Networks and Its Applications
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4499: Improving Optimization Bounds using Machine Learning: Decision Diagrams meet Deep Reinforcement Learning
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4500: Crawling the Community Structure of Multiplex Networks
Ricky Laishram (Syracuse University)*; Jeremy D Wendt (Sandia National Laboratories); Sucheta Soundarajan (Syracuse University)

4503: Spatiality Preservable Factored Poisson Regression for Large Scale Fine Grained GPS-based Population Analysis
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4517: Robust Ordinal Embedding from Contaminated Relative Comparisons
Ke Ma (Institute of Information Engineering, Chinese Academy of Sciences); Qianqian Xu (Key Laboratory of Intelligent Information Processing, Institute of Computing Technology, Chinese Academy of Sciences); Xiaochun Cao (Chinese Academy of Sciences)*

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4533: Unsupervised Controllable Text Formalization
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4542: Model-based Diagnosis of Hybrid Systems using Satisfiability Modulo Theory
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4550: Supervised User Ranking in Signed Social Networks
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4554: Complexity of Inconsistency-Tolerant Query Answering in Datalog+/- under Cardinality-Based Repairs
Thomas Lukasiewicz (University of Oxford)*; Enrico Malizia (University of Exeter); Andrius Vaicenavicius (University of Oxford)

4557: Devil in the Details: Towards Accurate Single and Multiple Human Parsing
Tao Ruan (Beijjing Jiaotong University)*; Ting Liu (Beijing Jiaotong University); Zilong Huang (Huazhong Univ. of Science and Technology); Yunchao Wei (UIUC); Shikui Wei (Beijing Jiaotong University); Yao Zhao (Beijing Jiaotong University)

4561: What and Where the Themes Dominate in Image
Xinyu Xiao (National Laboratory of Pattern recognition (NLPR), Institute of Automation of Chinese Academy of Sciences (CASIA))*; Lingfeng Wang (Institute of Automation, Chinese Academy of Sciences); SHIMING XIANG (Chinese Academy of Sciences, China); Chunhong Pan (Institute of Automation, Chinese Academy of Sciences)

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4563: Linear Kernel Tests via Empirical Likelihood for High Dimensional Data
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for Space Utilization, Chinese Academy of Sciences); Ling Shao (Inception Institute of Artificial Intelligence); Xin Gao (Kaust)

4569: Exploring Answer Stance Detection with Recurrent Conditional Attention
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4575: Refining Coarse-grained Spatial Data using Auxiliary Spatial Data Sets with Various Granularities
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4578: Separator-based Pruned Dynamic Programming for Steiner Tree
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4583: Dynamic Learning of Sequential Choice Bandit Problem under Marketing Fatigue
Junyu Cao (University of California, Berkeley)*; Wei Sun (IBM Research)

4589: Context-Aware Self-Attention Networks
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4591: MRes-RGNN: A Novel Deep Learning based Framework for Traffic Prediction
Cen Chen (Hunan University); Kenli Li (Hunan University); Singee Teo (I2R); Xiaofeng Zou (Hunan University); Kang Wang (Hunan University); Jie Wang (I2R); Zeng Zeng (I2R)*

4595: Querying Attributed DL-Lite Ontologies using Provenance Semirings
Camille Bourgaux (Télécom ParisTech); Ana Ozaki (Free University of Bozen-Bolzano)*

4601: Belief Change and Non-monotonic Reasoning sans Compactness
Jandson S Ribeiro (Macquarie University)*; Abhaya Nayak (Macquarie University); Renata Wasserman (Universidade de São Paulo)

4605: Translating with Bilingual Topic Knowledge for Neural Machine Translation
Xiangpeng Wei (Institute of Information Engineering,Chinese Academy of Sciences)*; Yue Hu (Institute of Information Engineering,Chinese Academy of Sciences); Luxi Xing (Institute of Information Engineering, Chinese Academy of Sciences); Yipeng Wang (Institute of Information Engineering,Chinese Academy of Sciences); Li Gao (Online Media Group, Tencent, Beijing)

4607: DeepCCFV: Camera Constraint-Free Multi-View Convolutional Neural Network for 3D Object Retrieval

Zhengyue Huang (Tsinghua University)*; Zhehui Zhao (Tsinghua University); Hengguang Zhou (University of Toronto); Xibin Zhao (Tsinghua University); Yue Gao (Tsinghua University)

4622: Counting and Sampling from Markov Equivalent DAGs Using Clique Trees
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4631: DTMT: A Novel Deep Transition Architecture for Neural Machine Translation
Fandong Meng (Tencent WeChat AI - Pattern Recognition Center Tencent Inc.)*; Jinchao Zhang (Tencent)

4632: Stepping Stones to Inductive Synthesis of Low-Level Looping Programs
Christopher D. Rosin (Parity Computing)*

4653: Deep Hierarchical Graph Convolution for Election Prediction from Geospatial Census Data
Mike Li (University of Sydney); Elija Perrier (University of Technology, Sydney)*; Chang Xu (University of Sydney)

4661: Multi-Task Learning with Multi-View Attention for Answer Selection and Knowledge Base Question Answering
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4677: Validation of Growing Knowledge Graphs by Abductive Text Evidences
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4737: Personalized Question Routing via Heterogeneous Network Embedding
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4743: Better Fine-tuning via Instance Weighting for Text Classification
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4773: Surveys without Questions: A Reinforcement Learning Approach
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4808: Efficient Image Retrieval via Decoupling Diffusion into Online and Offline Processing
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5491: Efficient Counterfactual Learning from Bandit Feedback
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5492: Hyperbolic Heterogeneous Information Network Embedding
Xiao Wang (); Yiding Zhang (Beijing University of Posts and Telecommunications)*; Chuan Shi (Beijing University of Posts and Telecommunications)

5530: RLTM: An Efficient Neural IR Framework for Long Documents
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5556: Online Multi-Agent Pathfinding
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5560: Bayesian Fairness
Christos Dimitrakakis (Chalmers university of technology); Yang Liu (UC Santa Cruz/Harvard University); David Parkes (Harvard University); Goran Radanovic (Harvard University)*

5570: Transductive Bounds for the Multi-class Majority Vote Classifier
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5576: Gated Interleaved Multi-Task Composite State Sequencing: Learning to Daisy-Chain the Best Experts with GIRNet
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5579: Efficient and Scalable Multi-task Regression on Massive Number of Tasks
Xiao He (NEC Laboratories Europe)*; Francesco Alesiani (NEC Laboratories Europe); Ammar Shaker (NEC Laboratories Europe)

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Kai Zhang (University of Science and Technology of China); Hefu Zhang (University of Science and Technology of China); Qi Liu (" University of Science and Technology of China, China")*; Hongke Zhao (University of Science and Technology of China); Hengshu Zhu (Baidu Inc.); Enhong Chen (University of Science and Technology of China)

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5596: Improving One-Class Collaborative Filtering via Ranking-based Implicit Regularizer

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5611: Coverage Centrality Maximization in Undirected Networks
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5625: Lipper: Synthesizing Thy Speech using Multi-View Lipreading
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5628: Approximate Stream Reasoning with Metric Temporal Logic under Uncertainty
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