**PaperID:**797  
**Title:**Semantics for Active Integrity Constraints Using Approximation Fixpoint Theory  
**Track:**Main track  
**Authors:**Bart Bogaerts, Luis Cruz-Filipe

**PaperID:**832  
**Title:**Fast Feature Matching by Preserving Local Neighborhood Structure  
**Track:**Main track  
**Authors:**Jiayi Ma, Ji Zhao, Hanqi Guo, Junjun Jiang, Huabing Zhou, Yuan Gao

**PaperID:**846  
**Title:**Safe Inductions: An Algebraic Study  
**Track:**Main track  
**Authors:**Bart Bogaerts, Joost Vennekens, Marc Denecker

**PaperID:**873  
**Title:**Exploiting Music Play Sequence for Music Recommendation  
**Track:**Main track  
**Authors:**Zhiyong Cheng, Jialie Shen, Lei Zhu, Mohan Kankanhalli, Liqiang Nie

**PaperID:**888  
**Title:**Dynamic Multi-View Hashing for Online Image Retrieval  
**Track:**Main track  
**Authors:**Liang Xie, Jialie Shen, Jungong Han, Lei Zhu, Ling Shao

**PaperID:**893  
**Title:**Acceptability Semantics for Weighted Argumentation Frameworks  
**Track:**Main track  
**Authors:**Leila AMGOUD, Jonathan Ben-Naim, Srdjan Vesic, Dragan Doder

**PaperID:**896  
**Title:**Modelling the Working Week for Multi-Step Forecasting using Gaussian Process Regression  
**Track:**Main track  
**Authors:**Pasan Karunaratne, Masud Moshtaghi, Shanika Karunasekera, Aaron Harwood, Trevor Cohn

**PaperID:**912  
**Title:**Locality Adaptive Discriminant Analysis  
**Track:**Main track  
**Authors:**Qi Wang, Mulin Chen, Feiping Nie, Xuelong Li

**PaperID:**916  
**Title:**Learning to Explain Entity Relationships with Pairwise Deep Ranking  
**Track:**Main track  
**Authors:**Jizhou Huang, Wei Zhang, Shiqi Zhao, Shiqiang Ding, Haifeng Wang

**PaperID:**936  
**Title:**Role Forgetting for ALCOQH(top role)-Ontologies Using an Ackermann Approach  
**Track:**Main track  
**Authors:**Yizheng Zhao, Renate Schmidt

**PaperID:**1148  
**Title:**Model Checking Multi-Agent Systems against LDLK Specifications  
**Track:**Main track  
**Authors:**Jeremy Kong, Alessio Lomuscio

**PaperID:**1160  
**Title:**Interactive Image Segmentation via Pairwise Likelihood Learning  
**Track:**Main track  
**Authors:**Tao Wang, Quansen Sun, Qi Ge, Zexuan Ji, Qiang Chen, Guiyu Xia

**PaperID:**1162  
**Title:**Multi-lingual Knowledge Graph Embeddings for Cross-lingual Knowledge Alignment  
**Track:**Main track  
**Authors:**Muhao Chen, Yingtao Tian, Mohan Yang, Carlo Zaniolo

**PaperID:**1170  
**Title:**EigenNet: Towards Fast and Robust Training of Deep Neural Networks  
**Track:**Main track  
**Authors:**Luo Ping

**PaperID:**1173  
**Title:**Angle Principal Component Analysis  
**Track:**Main track  
**Authors:**Qianqian Wang, Quanxue Gao, XInbo Gao, Feiping Nie

**PaperID:**1185  
**Title:**Semi-supervised Feature Selection via Rescaled Linear Regression  
**Track:**Main track  
**Authors:**Xiaojun Chen, Feiping Nie, Guowen Yuan, Joshua Huang

**PaperID:**1190  
**Title:**Tensor Completion with Side Information: A Riemannian Manifold Approach  
**Track:**Main track  
**Authors:**Zhou Tengfei, Hui Qian, Zebang Shen, Chao Zhang, Congfu Xu

**PaperID:**1196  
**Title:**Strong Inconsistency in Nonmonotonic Reasoning  
**Track:**Main track  
**Authors:**Gerhard Brewka, Matthias Thimm, Markus Ulbricht

**PaperID:**1198  
**Title:**Discovering Relevance-Dependent Bicluster Structure from Relational Data  
**Track:**Main track  
**Authors:**Iku Ohama, Takuya Kida, Hiroki Arimura

**PaperID:**1200  
**Title:**Fast SVM Trained by Divide-and-Conquer Anchors  
**Track:**Main track  
**Authors:**Meng Liu, Chang Xu, Chao Xu, Dacheng Tao

**PaperID:**1203  
**Title:**Video Question Answering via Hierarchical Spatio-Temporal Attention Networks  
**Track:**Main track  
**Authors:**zhou zhao, Qifan Yang, Deng Cai, Xiaofei He, Yueting Zhuang

**PaperID:**1204  
**Title:**Microblog Sentiment Classiﬁcation via Recurrent Random Walk Network Learning  
**Track:**Main track  
**Authors:**zhou zhao, Hanqing Lu, Deng Cai, Xiaofei He, Yueting Zhuang

**PaperID:**1217  
**Title:**Fast Preprocessing for Robust Exemplar-Based Face Sketch Synthesis  
**Track:**Main track  
**Authors:**Yibing Song, Jiawei Zhang, Linchao Bao, Qingxiong Yang

**PaperID:**1219  
**Title:**Radar: Residual Analysis for Anomaly Detection in Attributed Networks  
**Track:**Main track  
**Authors:**Jundong Li, Harsh Dani, Xia Hu, Huan Liu

**PaperID:**1221  
**Title:**Reconstruction-based Unsupervised Feature Selection: An Embedded Approach  
**Track:**Main track  
**Authors:**Jundong Li, Jiliang Tang, Huan Liu

**PaperID:**1222  
**Title:**Real-Time Solution of Navigation Tasks in Inﬁnite Mario via Skill Reuse  
**Track:**Main track  
**Authors:**Michael Dann, John Thangarajah, Fabio Zambetta

**PaperID:**1231  
**Title:**Exclusivity Regularized Machine: A New Ensemble SVM Classifier  
**Track:**Main track  
**Authors:**Xiaojie Guo, Xiaobo Wang, Haibin Ling

**PaperID:**1235  
**Title:**Lossy Compression of Pattern Databases Using Acyclic Random Hypergraphs  
**Track:**Main track  
**Authors:**Mehdi Sadeqi, Howard Hamilton

**PaperID:**1236  
**Title:**TUCH: Turning Cross-view Hashing into Single-view Hashing via Generative Adversarial Nets  
**Track:**Main track  
**Authors:**Xin Zhao, Guiguang Ding, Yuchen Guo, Jungong Han, Yue Gao

**PaperID:**1249  
**Title:**Measuring the Intensity of Attacks in Argumentation Graphs with Shapley Value  
**Track:**Main track  
**Authors:**Leila AMGOUD, Jonathan Ben-Naim, Srdjan Vesic

**PaperID:**1250  
**Title:**Strong Syntax Splitting for Iterated Belief Revision  
**Track:**Main track  
**Authors:**Gabriele Kern-Isberner, Gerhard Brewka

**PaperID:**1251  
**Title:**Pareto Optimal Allocation under Uncertain Preferences  
**Track:**Main track  
**Authors:**Haris Aziz, Ronald de Haan, Baharak Rastegari

**PaperID:**1253  
**Title:**Generating Hard Random Boolean Formulas and Disjunctive Logic Programs  
**Track:**Main track  
**Authors:**Giovanni Amendola, Francesco Ricca, Mirek Truszczynski

**PaperID:**1257  
**Title:**Explicit Knowledge-based Reasoning for Visual Question Answering  
**Track:**Main track  
**Authors:**Peng Wang, Qi Wu, Chunhua Shen, Anthony Dick, Anton van den Hengel

**PaperID:**1258  
**Title:**Combining Knowledge with Deep Convolutional Neural Networks for Short Text Classification  
**Track:**Main track  
**Authors:**Jin Wang, Zhongyuan Wang, Dawei Zhang, Jun Yan

**PaperID:**1263  
**Title:**Improving Learning-from-Crowds through Expert Validation  
**Track:**Main track  
**Authors:**Liu Jiang, Mengchen Liu, Junlin Liu, Xiting Wang, Jun Zhu, Shixia Liu

**PaperID:**1267  
**Title:**Contextual Bandit with Restricted Context  
**Track:**Main track  
**Authors:**Djallel Bouneffouf, Irina Rish, Raphael Feraud, Guillermo Cecchi

**PaperID:**1271  
**Title:**Why You Should Charge Your Friends for Borrowing Your Stuff  
**Track:**Main track  
**Authors:**Kijung Shin, Euiwoong Lee, Dhivya Eswaran, Ariel Procaccia

**PaperID:**1274  
**Title:**Top-k Supervise Feature Selection via ADMM for Integer Programming  
**Track:**Main track  
**Authors:**Mingyu Fan, XIAOJUN CHANG, Xiaoqin Zhang, Di Wang, Liang Du

**PaperID:**1276  
**Title:**Adaptive Semi-Supervised Learning with Discriminative Least Squares Regression  
**Track:**Main track  
**Authors:**MINNAN LUO, LINGLING ZHANG, Feiping Nie, XIAOJUN CHANG, BUYUE QIAN, Qinghua Zheng

**PaperID:**1278  
**Title:**Budget-Constrained Dynamics in Multiagent Systems  
**Track:**Main track  
**Authors:**Rui Cao, Pavel Naumov

**PaperID:**1280  
**Title:**From Ensemble Clustering to Multi-View Clustering  
**Track:**Main track  
**Authors:**Zhiqiang Tao, Hongfu Liu, Sheng Li, Zhengming Ding, Yun Fu

**PaperID:**1282  
**Title:**Fair Allocation based on Diminishing Differences  
**Track:**Main track  
**Authors:**Erel Segal-halevi, Haris Aziz, Avinatan Hassidim

**PaperID:**1285  
**Title:**Doubly Sparsifying Network and Its Applications in Brain Signal Processing  
**Track:**Main track  
**Authors:**Zhangyang Wang, Shuai Huang, Jiayu Zhou, Thomas Huang

**PaperID:**1287  
**Title:**Semi-supervised Max-margin Topic Models with Manifold Posterior Regularization  
**Track:**Main track  
**Authors:**Wenbo Hu, Jun Zhu, Hang Su, Jingwei Zhuo, Bo Zhang

**PaperID:**1292  
**Title:**Large-scale Online Kernel Learning with Random Feature Reparameterization  
**Track:**Main track  
**Authors:**Tu Dinh Nguyen, Trung Le, Hung Bui, Dinh Phung

**PaperID:**1293  
**Title:**Stratified Strategy Selection for Unit Control in Real-Time Strategy Games  
**Track:**Main track  
**Authors:**Levi Lelis

**PaperID:**1295  
**Title:**Plan Explanations as Model Reconciliation: Moving Beyond Explanation as Soliloquy  
**Track:**Main track  
**Authors:**Tathagata Chakraborti, Sarath Sreedharan, Yu Zhang, Subbarao Kambhampati

**PaperID:**1296  
**Title:**MAT: A Multimodal Attentive Translator for Image Captioning  
**Track:**Main track  
**Authors:**Chang Liu, Fuchun Sun, Changhu Wang, Feng Wang, Alan Yuille

**PaperID:**1300  
**Title:**Positive unlabeled learning via wrapper-based adaptive sampling  
**Track:**Main track  
**Authors:**Pengyi Yang, Wei Liu, Jean Yang

**PaperID:**1305  
**Title:**Locality Preserving Projections for Grassmann manifold  
**Track:**Main track  
**Authors:**Boyue Wang, Yongli Hu, Junbin Gao, Yanfeng Sun, Baocai Yin, Muhammad Ali, Haoran Chen

**PaperID:**1312  
**Title:**Vertex-Weighted Hypergraph Learning for Multi-View Object Classification  
**Track:**Main track  
**Authors:**Lifan Su, Yue Gao, Xibin Zhao, Han Wan, Ming Gu, Jiaguang Sun

**PaperID:**1315  
**Title:**Weighted Model Integration via Orthogonal Transformations  
**Track:**Main track  
**Authors:**David Merrell, Aws Albarghouthi, Loris D'Antoni

**PaperID:**1319  
**Title:**Adaptive Manifold Regularized Matrix Factorization for Data Clustering  
**Track:**Main track  
**Authors:**Lefei Zhang, Qian Zhang, Bo Du, Jane You, Dacheng Tao

**PaperID:**1321  
**Title:**On Gleaning Knowledge from Multiple Domains for Active Learning  
**Track:**Main track  
**Authors:**Zengmao Wang, Bo Du, Lefei Zhang, Liangpei Zhang, Ruimin Hu, Dacheng Tao

**PaperID:**1325  
**Title:**Improved Bounded Matrix Completion for Large-Scale Recommender Systems  
**Track:**Main track  
**Authors:**Huang Fang, Cho-Jui Hsieh, Zhang Zhen, Yiqun Shao

**PaperID:**1326  
**Title:**When Does Label Propagation Fail? A View from a Network Generative Model  
**Track:**Main track  
**Authors:**Yuto Yamaguchi, Kohei Hayashi

**PaperID:**1327  
**Title:**DeepStory: Video Story QA by Deep Embedded Memory Networks  
**Track:**Main track  
**Authors:**Kyungmin Kim, Min-Oh Heo, Seong-Ho Choi, Byoung-Tak Zhang

**PaperID:**1328  
**Title:**ROUTE: Robust Outlier Estimation for Low Rank Matrix Recovery  
**Track:**Main track  
**Authors:**Xiaojie Guo, Zhouchen Lin

**PaperID:**1335  
**Title:**Approximating Discrete Probability Distribution of Image Emotions by Multi-Modal Features Fusion  
**Track:**Main track  
**Authors:**Sicheng Zhao, Guiguang Ding, Yue Gao, Jungong Han

**PaperID:**1339  
**Title:**Deep Graphical Feature Learning for Face Sketch Synthesis  
**Track:**Main track  
**Authors:**Mingrui Zhu, Nannan Wang, Xinbo Gao, Jie Li

**PaperID:**1341  
**Title:**Privacy Issues Regarding the Application of DNNs to Activity-Recognition using Wearables and Its Countermeasures by Use of Adversarial Training  
**Track:**Main track  
**Authors:**Yusuke Iwasawa, Kotaro Nakayama, Ikuko Yairi, Yutaka Matsuo

**PaperID:**1349  
**Title:**Beyond Universal Saliency: Personalized Saliency Prediction with Multi-task CNN  
**Track:**Main track  
**Authors:**Yanyu Xu, Nianyi Li, Junru Wu, Jingyi Yu, Shenghua Gao

**PaperID:**1359  
**Title:**Self-Paced Multi-Task Learning with Shared Knowledge  
**Track:**Main track  
**Authors:**Keerthiram Murugesan, Jaime Carbonell

**PaperID:**1361  
**Title:**Large-scale Subspace Clustering by Fast Regression Coding  
**Track:**Main track  
**Authors:**Jun Li, Handong Zhao, Zhiqiang Tao, Yun Fu

**PaperID:**1365  
**Title:**Model-Free Conformant Planning  
**Track:**Main track  
**Authors:**Roni Stern, Brendan Juba

**PaperID:**1369  
**Title:**A Functional Dynamic Boltzmann Machine  
**Track:**Main track  
**Authors:**Hiroshi Kajino

**PaperID:**1378  
**Title:**Extracting Visual Knowledge from the Web with Multimodal Learning  
**Track:**Main track  
**Authors:**Dihong Gong, Daisy Wang

**PaperID:**1379  
**Title:**Online Reputation Fraud Campaign Detection in User Ratings  
**Track:**Main track  
**Authors:**Chang Xu, Jie Zhang, Zhu Sun

**PaperID:**1401  
**Title:**A Robust Noise Resistant Algorithm for POI Identification from Flickr Data  
**Track:**Main track  
**Authors:**Yiyang Yang, Zhiguo Gong, Qing Li, Leong Hou U, Ruichu Cai, Zhifeng Hao

**PaperID:**1402  
**Title:**Coordinated Versus Decentralized Exploration In Multi-Agent Multi-Armed Bandits  
**Track:**Main track  
**Authors:**Mithun Chakraborty, Kai Yee Phoebe Chua, Sanmay Das, Brendan Juba

**PaperID:**1405  
**Title:**Discriminative Dictionary Learning With Ranking Metric Embedded for Person Re-Identification  
**Track:**Main track  
**Authors:**De Cheng, XIAOJUN CHANG, Li Liu, Alexander Hauptmann, Yihong Gong, Nanning Zheng

**PaperID:**1406  
**Title:**Agent Design Consistency Checking via Planning  
**Track:**Main track  
**Authors:**Nitin Yadav, John Thangarajah, Sebastian Sardina

**PaperID:**1408  
**Title:**Plato's Cave in the Dempster-Shafer land--the Link between Pignistic and Plausibility Transformations  
**Track:**Main track  
**Authors:**Chunlai Zhou, Biao Qin, Xiaoyong Du

**PaperID:**1414  
**Title:**Adaptively Unified Semi-supervised Learning for Cross-Modal Retrieval  
**Track:**Main track  
**Authors:**Liang Zhang, Bingpeng MA, Jianfeng HE, guorong li, Qingming Huang, Qi TIAN

**PaperID:**1418  
**Title:**Integrating Specialized Classifiers Based on Continuous Time Markov Chain  
**Track:**Main track  
**Authors:**Zhizhong Li, Dahua Lin

**PaperID:**1426  
**Title:**Learning deep structured network for weakly supervised change detection  
**Track:**Main track  
**Authors:**Salman Khan, Xuming He, Fatih Porikli, Ferdous Sohel, Roberto Togneri, Mohammed Bennamoun

**PaperID:**1427  
**Title:**Cascade Dynamics Modeling with Attention-based Recurrent Neural Network  
**Track:**Main track  
**Authors:**Yongqing Wang, Shenghua Liu, Huawei Shen, Jinhua Gao, Xueqi Cheng

**PaperID:**1432  
**Title:**Projective Low-rank Subspace Clustering via Learning Deep Encoder  
**Track:**Main track  
**Authors:**Jun Li, Liu Hongfu, Handong Zhao, Yun Fu

**PaperID:**1441  
**Title:**Robust Regression via Heuristic Hard Thresholding  
**Track:**Main track  
**Authors:**Xuchao Zhang, Liang Zhao, Arnold Boedihardjo, Chang-Tien Lu

**PaperID:**1442  
**Title:**Multimodal Storytelling via Generative Adversarial Imitation Learning  
**Track:**Main track  
**Authors:**Zhiqian Chen, Xuchao Zhang, Arnold Boedihardjo, Jing Dai, Chang-Tien Lu

**PaperID:**1444  
**Title:**Efficient Reinforcement Learning with Hierarchies of Machines by Leveraging Internal Transitions  
**Track:**Main track  
**Authors:**Aijun Bai

**PaperID:**1445  
**Title:**Contextual Covariance Matrix Adaptation Evolutionary Strategies  
**Track:**Main track  
**Authors:**abbas Abdolmaleki, Bob Price, Nuno Lua, Luis Paulo Reis, Gerhard Neumann

**PaperID:**1446  
**Title:**Weighted Double Q-Learning  
**Track:**Main track  
**Authors:**Zongzhang Zhang, Zhiyuan Pan, Mykel Kochenderfer

**PaperID:**1448  
**Title:**DDoS Event Forecasting using Twitter Data  
**Track:**Main track  
**Authors:**Zhongqing Wang, Yue Zhang

**PaperID:**1449  
**Title:**A Neural Model for Joint Event Detection and Summarization  
**Track:**Main track  
**Authors:**Zhongqing Wang, Yue Zhang

**PaperID:**1454  
**Title:**From Decimation to Local Search and Back: A New Approach to MaxSAT  
**Track:**Main track  
**Authors:**Shaowei Cai, Chuan Luo, Haochen Zhang

**PaperID:**1455  
**Title:**Cross-Domain Recommendation: An Embedding and Mapping Approach  
**Track:**Main track  
**Authors:**Tong Man, Huawei Shen, Xueqi Cheng, Xiaolong Jin

**PaperID:**1457  
**Title:**Instance-Level Label Propagation with Multi-Instance Learning  
**Track:**Main track  
**Authors:**Qifan Wang, Gal Chechik, Chen Sun, Bin Shen

**PaperID:**1458  
**Title:**What to Do Next: Modeling User Behaviors by Time-LSTM  
**Track:**Main track  
**Authors:**Yu Zhu, Hao Li, Yikang Liao, Beidou Wang, Ziyu Guan, Haifeng Liu, Deng Cai

**PaperID:**1465  
**Title:**Privileged Matrix Factorization for Collaborative Filtering  
**Track:**Main track  
**Authors:**Yali Du, Chang Xu, Dacheng Tao

**PaperID:**1466  
**Title:**Collaborative Rating Allocation  
**Track:**Main track  
**Authors:**Yali Du, Chang Xu, Dacheng Tao

**PaperID:**1471  
**Title:**A Reduction based Method for Coloring Very Large Graphs  
**Track:**Main track  
**Authors:**Jinkun Lin, Shaowei Cai, Chuan Luo, Kaile Su

**PaperID:**1487  
**Title:**Entity Suggestion with Conceptual Expanation  
**Track:**Main track  
**Authors:**Yi Zhang, Yanghua Xiao, Seung-won Hwang, Wei Wang, Haixun Wang, X. Sean Wang

**PaperID:**1490  
**Title:**Fashion Style Generator  
**Track:**Main track  
**Authors:**Shuhui Jiang, Yun Fu

**PaperID:**1501  
**Title:**Multiple Kernel Clustering Framework with Improved Kernels  
**Track:**Main track  
**Authors:**Yueqing Wang, Xinwang Liu, Yong Dou, Rongchun Li

**PaperID:**1502  
**Title:**Approximate Large-scale Multiple Kernel k-means using Deep Neuron Network  
**Track:**Main track  
**Authors:**Yueqing Wang, Xinwang Liu, Yong Dou, Rongchun Li

**PaperID:**1503  
**Title:**Computing an Approximately Optimal Agreeable Set of Items  
**Track:**Main track  
**Authors:**Pasin Manurangsi, Warut Suksompong

**PaperID:**1509  
**Title:**Depression Detection via Harvesting Social Media: A Multimodal Dictionary Learning Solution  
**Track:**Main track  
**Authors:**Guangyao Shen, Jia Jia, Liqiang Nie, Fuli Feng, Cunjun Zhang, Tianrui Hu, Tatseng Chua, Wenwu Zhu

**PaperID:**1510  
**Title:**Is My Object in This Video? Reconstruction-based Object Search in Videos  
**Track:**Main track  
**Authors:**tan yu, jingjing meng, junsong yuan

**PaperID:**1512  
**Title:**Sampling for Approximate Maximum Search in Factorized Tensor  
**Track:**Main track  
**Authors:**Zhi Lu, Yang Hu, Bing Zeng

**PaperID:**1514  
**Title:**Link Prediction via Ranking Metric Dual-Level Attention Network Learning  
**Track:**Main track  
**Authors:**zhou zhao, Ben Gao, Vincent Zheng, Deng Cai, Xiaofei He, Yueting Zhuang

**PaperID:**1520  
**Title:**Importance-Aware Semantic Segmentation for Autonomous Driving System  
**Track:**Main track  
**Authors:**Bi-ke Chen, Chen Gong, Jian Yang

**PaperID:**1537  
**Title:**Understanding Users' Budgets for Recommendation with Hierarchical Poisson Factorization  
**Track:**Main track  
**Authors:**Yunhui Guo, Congfu Xu, Hanzhang Song, Xin Wang

**PaperID:**1539  
**Title:**RHash: Robust Hashing via \\ell\_{\\infty}-norm Distortion  
**Track:**Main track  
**Authors:**Amirali Aghazadeh, Andrew Lan, Anshumali Shrivastava, Richard Baraniuk

**PaperID:**1540  
**Title:**Combining DL-Lite\_{bool}^N with Branching Time: A gentle Marriage   
**Track:**Main track  
**Authors:**Víctor Gutiérrez-Basulto, Jean Christoph Jung

**PaperID:**1541  
**Title:**Adaptive Hypergraph Learning for Unsupervised Feature Selection  
**Track:**Main track  
**Authors:**Yonghua Zhu, Xiaofeng Zhu, Wei He, Rongyao Hu, Shichao Zhang

**PaperID:**1546  
**Title:**Modeling Physicians' Utterances to Explore Diagnostic Decision-making  
**Track:**Main track  
**Authors:**Xuan Guo, Rui Li, Qi Yu, Anne Haake

**PaperID:**1561  
**Title:**Opinion-aware Knowledge Graph for Political Ideology Detection  
**Track:**Main track  
**Authors:**Wei Chen, Xiao Zhang, Tengjiao Wang, Bishan Yang, Yi Li

**PaperID:**1562  
**Title:**Efficient Kernel Selection via Spectral Analysis  
**Track:**Main track  
**Authors:**Jian Li, Yong Liu, Hailun Lin, Yinliang Yue, Weiping Wang

**PaperID:**1569  
**Title:**Convolutional 2D LDA for Nonlinear Dimensionality Reduction  
**Track:**Main track  
**Authors:**Qi Wang, Zequn Qin, Feiping Nie, Yuan Yuan

**PaperID:**1570  
**Title:**Autoencoder Regularized Network For Driving Style Representation Learning  
**Track:**Main track  
**Authors:**Weishan Dong, Ting Yuan, Kai Yang, Changsheng Li, Shilei Zhang

**PaperID:**1584  
**Title:**Diverse Weighted Bipartite b-Matching  
**Track:**Main track  
**Authors:**Faez Ahmed, John Dickerson, Mark Fuge

**PaperID:**1585  
**Title:**Inter-Club Kidney Exchange  
**Track:**Main track  
**Authors:**Gabriele Farina, John Dickerson, Tuomas Sandholm

**PaperID:**1588  
**Title:**Quantifying Aspect Bias in Ordinal Ratings using a Bayesian Approach  
**Track:**Main track  
**Authors:**Lahari Poddar, Wynne Hsu, Mong Li Lee

**PaperID:**1590  
**Title:**Using Graphs of Classifiers to Impose Declarative Constraints on Semi-supervised Learning  
**Track:**Main track  
**Authors:**Lidong Bing, William Cohen, Bhuwan Dhingra

**PaperID:**1592  
**Title:**Discriminative Deep Hashing for Scalable Face Image Retrieval  
**Track:**Main track  
**Authors:**Zechao Li, Jie Lin, Jinhui Tang

**PaperID:**1597  
**Title:**Learning Multi-level Region Consistency with Dense Multi-label Networks for Semantic Segmentation  
**Track:**Main track  
**Authors:**Tong Shen, Guosheng Lin, Chunhua Shen, Ian Reid

**PaperID:**1602  
**Title:**Confusion Graph: Detecting Confusion Communities in Large Scale Image Classification  
**Track:**Main track  
**Authors:**Ruochun Jin, Yong Dou, Yueqing Wang, Xin Niu

**PaperID:**1605  
**Title:**GDL-III: A Description Language for Epistemic General Game Playing  
**Track:**Main track  
**Authors:**Michael Thielscher

**PaperID:**1614  
**Title:**Multiwinner Rules on Paths From k-Borda to Chamberlin–Courant  
**Track:**Main track  
**Authors:**Piotr Faliszewski, Piotr Skowron, Arkadii Slinko, Nimrod Talmon

**PaperID:**1618  
**Title:**On the Power and Limitation of Deception in Multi-Robot Adversarial Patrolling  
**Track:**Main track  
**Authors:**Noga Talmor, Noa Agmon

**PaperID:**1620  
**Title:**Improving Stochastic Block Models by Incorporating Power-Law Degree Characteristic  
**Track:**Main track  
**Authors:**Maoying Qiao, Jun Yu, Wei Bian, Qiang Li, Dacheng Tao

**PaperID:**1621  
**Title:**Deep Multiple Instance Hashing for Object-based Image Retrieval  
**Track:**Main track  
**Authors:**Wanqing Zhao, Ziyu Guan, Hangzai Luo, Jinye Peng, Jianping Fan

**PaperID:**1629  
**Title:**How to Form Winning Coalitions in Mixed Human-Computer Settings  
**Track:**Main track  
**Authors:**Yair Zick, Kobi Gal, Yoram Bachrach, Moshe Mash

**PaperID:**1637  
**Title:**Feature Structure Transfer Learning  
**Track:**Main track  
**Authors:**Tongliang Liu, Dacheng Tao, Qiang Yang

**PaperID:**1655  
**Title:**Enhancing Campaign Design in Crowdfunding: A Product Supply Optimization Perspective  
**Track:**Main track  
**Authors:**Qi Liu, Guifeng Wang, Hongke Zhao, Chuanren Liu, Tong Xu, Enhong Chen

**PaperID:**1658  
**Title:**Tosca: Operationalizing Social Commitments over Information Protocols  
**Track:**Main track  
**Authors:**Thomas C. King, Akın Günay, Amit K. Chopra, Munindar Singh

**PaperID:**1661  
**Title:**Probability Bounds for Overlapping Coalition Formation  
**Track:**Main track  
**Authors:**Michail Mamakos, Georgios Chalkiadakis

**PaperID:**1667  
**Title:**Query Rewriting for DL-Lite with n-ary Concrete Domains  
**Track:**Main track  
**Authors:**Franz Baader, Stefan Borgwardt, Marcel Lippmann

**PaperID:**1669  
**Title:**On the Complexity of Enumerating the Extensions of Abstract Argumentation Frameworks  
**Track:**Main track  
**Authors:**Markus Kröll, Reinhard Pichler, Stefan Woltran

**PaperID:**1684  
**Title:**Omniscient Debugging for Cognitive Agent Programs  
**Track:**Main track  
**Authors:**Vincent Koeman, Koen Hindriks, Catholijn Catholijn

**PaperID:**1685  
**Title:**Sifting Common Information from Many Variables  
**Track:**Main track  
**Authors:**Greg Ver Steeg, Shuyang Gao, Kyle Reing, Aram Galstyan

**PaperID:**1689  
**Title:**Hierarchical LSTM with Adjusted Temporal Attention for Video Captioning  
**Track:**Main track  
**Authors:**jingkuan song, Zhao Guo, Wu Liu, Dongxiang Zhang, Heng Tao Shen, Lianli Gao

**PaperID:**1704  
**Title:**Recognizing Top-Monotonic Preference Profiles in Polynomial Time  
**Track:**Main track  
**Authors:**Krzysztof Magiera, Piotr Faliszewski

**PaperID:**1708  
**Title:**Demand Response Contract Design for Energy Markets  
**Track:**Main track  
**Authors:**Hongyao Ma, Reshef Meir, Valentin Robu

**PaperID:**1711  
**Title:**Multi-Modal Word Synset Induction  
**Track:**Main track  
**Authors:**Jesse Thomason, Raymond Mooney

**PaperID:**1719  
**Title:**Retaining data from streams of social platforms with minimal regret  
**Track:**Main track  
**Authors:**Thanh Tam Nguyen, Matthias Weidlich, Chi Thang Duong, Hongzhi Yin, Quoc Viet Hung Nguyen

**PaperID:**1724  
**Title:**A Generalized Recurrent Neural Architecture for Text Classification with Multi-Task Learning  
**Track:**Main track  
**Authors:**Honglun Zhang, Yongkun Wang, Liqiang Xiao, Yaohui Jin

**PaperID:**1733  
**Title:**Adaptive Learning Rate via Variance-covariance Matrix Based Preconditioning  
**Track:**Main track  
**Authors:**Yasutoshi Ida, Yasuhiro Fujiwara, Sotetsu Iwamura

**PaperID:**1737  
**Title:**Multi-Stream Deep Similarity Learning Networks for Visual Tracking  
**Track:**Main track  
**Authors:**Kunpeng Li, Yu Kong, Yun Fu

**PaperID:**1739  
**Title:**Multimodal Linear Discriminant Analysis via Structural Sparsity  
**Track:**Main track  
**Authors:**Yu Zhang, Yuan Jiang

**PaperID:**1741  
**Title:**Learning Latest Classifiers without Additional Labeled Data  
**Track:**Main track  
**Authors:**Atsutoshi Kumagai, Tomoharu Iwata

**PaperID:**1747  
**Title:**Incomplete Attribute Learning with auxiliary labels  
**Track:**Main track  
**Authors:**Kongming Liang, Yuhong Guo, Hong Chang, Xilin Chen

**PaperID:**1749  
**Title:**ME-MD: An Effective Framework for Neural Machine Translation with Multiple Encoders and Decoders  
**Track:**Main track  
**Authors:**Jinchao Zhang, Qun Liu, Jie Zhou

**PaperID:**1753  
**Title:**The Condorcet Principle for Multiwinner Elections: From Shortlisting to Proportionality  
**Track:**Main track  
**Authors:**Haris Aziz, Edith Elkind, Piotr Faliszewski, Martin Lackner, Piotr Skowron

**PaperID:**1756  
**Title:**Proportional Rankings  
**Track:**Main track  
**Authors:**Piotr Skowron, Martin Lackner, Edith Elkind, Markus Brill, Dominik Peters

**PaperID:**1766  
**Title:**Hierarchical Feature Selection with Recursive Regularization  
**Track:**Main track  
**Authors:**Hong Zhao, Pengfei Zhu, Ping Wang, Qinghua Hu

**PaperID:**1770  
**Title:**Cake Cutting: Envy and Truth  
**Track:**Main track  
**Authors:**Xiaohui Bei, Ning Chen, Guangda Huzhang, Biaoshuai Tao, Jiajun Wu

**PaperID:**1773  
**Title:**Combining Models from Multiple Sources for RGB-D Scene Recognition  
**Track:**Main track  
**Authors:**Xinhang Song, Shuqiang Jiang, Luis Herranz

**PaperID:**1775  
**Title:**Scalable Constraint-based Virtual Data Center Allocation  
**Track:**Main track  
**Authors:**Samuel Bayless, Nodir Kodirov, Ivan Beschastnikh, Holger Hoos, Alan Hu

**PaperID:**1787  
**Title:**When Security Games Hit Traffic: Optimal Traffic Enforcement Under One Sided Uncertainty  
**Track:**Main track  
**Authors:**Ariel Rosenfeld, Sarit Kraus

**PaperID:**1788  
**Title:**Fast Recursive Low-rank Tensor Learning for Regression  
**Track:**Main track  
**Authors:**Ming Hou, Brahim Chaib-draa

**PaperID:**1789  
**Title:**Diverse Neuron Type Selection for Convolutional Neural Networks  
**Track:**Main track  
**Authors:**Guibo Zhu, Zhaoxiang Zhang, Xuyao Zhang, Cheng-Lin Liu

**PaperID:**1798  
**Title:**Modeling Trajectories with Recurrent Neural Networks  
**Track:**Main track  
**Authors:**Hao Wu, Ziyang Chen, Weiwei Sun, Baihua Zheng, Wei Wang

**PaperID:**1800  
**Title:**How Unlabeled Web Videos Help Complex Event Detection?  
**Track:**Main track  
**Authors:**Huan Liu, Qinghua Zheng, MINNAN LUO, Dingwen Zhang, XIAOJUN CHANG, Cheng Deng

**PaperID:**1803  
**Title:**Nonlinear Maximum Margin Multi-View Learning with Adaptive Kernel  
**Track:**Main track  
**Authors:**Jia he, Changying Du, Changde Du, Fuzhen Zhuang, Qing He, Guoping Long

**PaperID:**1804  
**Title:**A General Multi-agent Epistemic Planner Based on Higher-order Belief Change  
**Track:**Main track  
**Authors:**Xiao Huang, Biqing Fang, Hai Wan, Yongmei Liu

**PaperID:**1808  
**Title:**Classification and Representation Co-learning via Deep Networks  
**Track:**Main track  
**Authors:**Ya Li, Xinmei Tian, Xu Shen, Dacheng Tao

**PaperID:**1810  
**Title:**Image Gradient-based Joint Direct Visual Odometry for Stereo Camera  
**Track:**Main track  
**Authors:**Jianke Zhu

**PaperID:**1818  
**Title:**Tensor Decomposition with Missing Indices  
**Track:**Main track  
**Authors:**Yuto Yamaguchi, Kohei Hayashi

**PaperID:**1822  
**Title:**SVD-Based Screening for the Graphical Lasso  
**Track:**Main track  
**Authors:**Yasuhiro Fujiwara, Naoki Marumo, Mathieu Blondel, Koh Takeuchi, Hideaki Kim, Tomoharu Iwata, Naonori Ueda

**PaperID:**1824  
**Title:**Bayesian Dynamic Mode Decomposition  
**Track:**Main track  
**Authors:**Naoya Takeishi, Yoshinobu Kawahara, Yasuo Tabei, Takehisa Yairi

**PaperID:**1829  
**Title:**A General Notion of Equivalence for Abstract Argumentation  
**Track:**Main track  
**Authors:**Ringo Baumann, Wolfgang Dvořák, Thomas Linsbichler, Stefan Woltran

**PaperID:**1831  
**Title:**A Convolutional Approach for Misinformation Identification  
**Track:**Main track  
**Authors:**feng yu, Qiang Liu, Shu Wu, Liang Wang, Tieniu Tan

**PaperID:**1835  
**Title:**Extracting Real-time Feedback with Neural Networks for Simulation-based Learning  
**Track:**Main track  
**Authors:**Xingjun Ma, James Bailey, Shuo Zhou, Sudanthi Wijewickrema, Zakaria Mhammedi, Yun Zhou, Stephen O'Leary

**PaperID:**1836  
**Title:**Equilibria in Ordinal Games: A Framework based on Possibility Theory.  
**Track:**Main track  
**Authors:**Régis Sabbadin, Nahla Ben Amor, helene fargier

**PaperID:**1838  
**Title:**A Study of Unrestricted Abstract Argumentation Frameworks  
**Track:**Main track  
**Authors:**Ringo Baumann, Christof Spanring

**PaperID:**1840  
**Title:**The DNA Word Design Problem: A New Constraint Model and New Results  
**Track:**Main track  
**Authors:**Michael Codish, Michael Frank, Vitaly Lagoon

**PaperID:**1841  
**Title:**Fast Parallel Training of Neural Language Models  
**Track:**Main track  
**Authors:**Tong Xiao, Jingbo Zhu, Tongran Liu, Chunliang Zhang

**PaperID:**1842  
**Title:**The Impact of Treewidth on ASP Grounding and Solving  
**Track:**Main track  
**Authors:**Bernhard Bliem, Marius Moldovan, Michael Morak, Stefan Woltran

**PaperID:**1846  
**Title:**Storage Fit Learning with Unlabeled Data  
**Track:**Main track  
**Authors:**Bo-Jian Hou, Lijun Zhang, Zhi-Hua Zhou

**PaperID:**1856  
**Title:**Multi-Positive and Unlabeled Learning  
**Track:**Main track  
**Authors:**Yixing Xu, Chang Xu, Dacheng Tao, Chao Xu

**PaperID:**1858  
**Title:**Learning Sentence Representation with Guidance of Human Attention  
**Track:**Main track  
**Authors:**Shaonan Wang, Jiajun Zhang, Chengqing Zong

**PaperID:**1860  
**Title:**Efficiently Enforcing Path Consistency on Qualitative Constraint Networks by use of Abstraction  
**Track:**Main track  
**Authors:**Michael Sioutis, Jean-François Condotta

**PaperID:**1865  
**Title:**Unsupervised Clustering of Ego-Centric Actions  
**Track:**Main track  
**Authors:**Bharat Lal Bhatnagar, Suriya Singh, Chetan Arora, C.V. Jawahar

**PaperID:**1877  
**Title:**Category-aware Next Point-of-Interest Recommendation via Listwise Bayesian Personalized Ranking  
**Track:**Main track  
**Authors:**Jing He, Xin Li, Lejian Liao

**PaperID:**1884  
**Title:**Manipulating Gale-Shapley Algorithm while Preserving Stability but Without Getting Noticed  
**Track:**Main track  
**Authors:**Rohit Vaish, Dinesh Garg

**PaperID:**1894  
**Title:**Graph-Structured Optimization using Tree Projection Pursuit for Anomalous Subgraph Discovery in Attributed Graphs  
**Track:**Main track  
**Authors:**Nannan Wu, Feng Chen, Jianxin Li, Jinpeng Huai, Bo Li

**PaperID:**1899  
**Title:**Person Re-Identification by Deep Joint Learning of Multi-Loss Classification  
**Track:**Main track  
**Authors:**Wei Li, Xiatian Zhu, Shaogang Gong

**PaperID:**1903  
**Title:**Bayesian Aggregation of Categorical Distributions with Applications in Crowdsourcing  
**Track:**Main track  
**Authors:**alexandry augustin, Matteo Venanzi, Nicholas R. Jennings, Alex Rogers

**PaperID:**1906  
**Title:**Towards Understanding the Invertibility of Convolutional Neural Networks  
**Track:**Main track  
**Authors:**Anna Gilbert, Yi Zhang, Kibok Lee, Yuting Zhang, Honglak Lee

**PaperID:**1909  
**Title:**Equi-Reward Utility Maximizing Design in Stochastic Environments  
**Track:**Main track  
**Authors:**Sarah Keren, Luis Pineda, Avigdor Gal, Erez Karpas, Shlomo Zilberstein

**PaperID:**1913  
**Title:**Disguise Adversarial Networks for Click-through Rate Prediction  
**Track:**Main track  
**Authors:**Yue Deng, Yilin Shen, Hongxia Jin

**PaperID:**1918  
**Title:**Bilateral Multi-Perspective Matching for Natural Language Sentences  
**Track:**Main track  
**Authors:**Zhiguo Wang, Wael Hamza, Radu Florian

**PaperID:**1930  
**Title:**Don't Bury your Head in Warnings: A Game-Theoretic Approach for Intelligent Allocation of Cyber-security Alerts  
**Track:**Main track  
**Authors:**Aaron Schlenker, Milind Tambe, Christopher Kiekintveld, Haifeng Xu, Mina Guirguis, Arunesh Sinha, Solomon Sonya, Noah Dunstatter, Darryl Balderas

**PaperID:**1931  
**Title:**Google Car Incident: Strategic Reasoning Meets Correlated Equilibrium  
**Track:**Main track  
**Authors:**Xiaowei Huang, Ji Ruan

**PaperID:**1934  
**Title:**New Metrics and Algorithms for Stochastic Goal Recognition Design Problems  
**Track:**Main track  
**Authors:**Christabel Wayllace, Ping Hou, William Yeoh

**PaperID:**1935  
**Title:**Face Image Super-Resolution using Deep Component Generation and Enhancement  
**Track:**Main track  
**Authors:**Yibing Song, Jiawei Zhang, Linchao Bao, Qingxiong Yang, Shengfeng He

**PaperID:**1938  
**Title:**Multiple-Profile Prediction-of-Use Games  
**Track:**Main track  
**Authors:**Andrew Perrault, Craig Boutilier

**PaperID:**1939  
**Title:**Constraint-Based Symmetry Detection in General Game Playing  
**Track:**Main track  
**Authors:**Frederic Koriche, Sylvain Lagrue, Eric Piette, Sébastien TABARY

**PaperID:**1941  
**Title:**Robust Online Anomaly Detection for Streaming Time Series  
**Track:**Main track  
**Authors:**Zhao Xu, Kristian Kersting, Lorenzo von Ritter

**PaperID:**1943  
**Title:**Projection Free Rank-Drop Steps  
**Track:**Main track  
**Authors:**Edward Cheung, Yuying Li

**PaperID:**1957  
**Title:**Dependency Exploitation: A Unified CNN-RNN Approach for Visual Emotion Recognition  
**Track:**Main track  
**Authors:**Xinge Zhu, Liang Li, Weigang Zhang, Tianrong Rao, Min Xu, Qingming Huang, Dong Xu

**PaperID:**1958  
**Title:**Stacked Similarity-Aware Autoencoders  
**Track:**Main track  
**Authors:**wenqing chu, Deng Cai

**PaperID:**1959  
**Title:**Decreasing Uncertainty in Planning with State Prediction  
**Track:**Main track  
**Authors:**Senka Krivic, Michael Cashmore, Daniele Magazzeni, Bram Ridder, Sandor Szedmak, Justus Piater

**PaperID:**1964  
**Title:**Fair Social Choice in Dynamic Settings  
**Track:**Main track  
**Authors:**Rupert Freeman, Seyed Majid Zahedi, Vincent Conitzer

**PaperID:**1965  
**Title:**Modal Consistency based Pre-trained Multi-Model Reuse  
**Track:**Main track  
**Authors:**Yang Yang, De-Chuan Zhan, Xiang-Yu Guo, Yuan Jiang

**PaperID:**1967  
**Title:**A Random Model for Argumentation Framework: Phase Transitions, Empirical Hardness, and Heuristics  
**Track:**Main track  
**Authors:**Yong Gao

**PaperID:**1969  
**Title:**Variational Mixtures of Gaussian Processes for Classification  
**Track:**Main track  
**Authors:**Chen Luo, Shiliang Sun

**PaperID:**1979  
**Title:**Learning User Dependencies for Recommendation  
**Track:**Main track  
**Authors:**Yong Liu, Peilin Zhao, Xin Liu, Min Wu, Lixin Duan, Xiaoli Li

**PaperID:**1987  
**Title:**Integrating Answer Set Programming with Semantic Dictionaries for Robot Task Planning  
**Track:**Main track  
**Authors:**Dongcai Lu, Yi Zhou, Feng Wu, Zhao Zhang, Xiaoping Chen

**PaperID:**2001  
**Title:**Multi-Instance Learning with Key Instance Shift  
**Track:**Main track  
**Authors:**Ya-Lin Zhang, Zhi-Hua Zhou

**PaperID:**2009  
**Title:**Online Robust Low-Rank Tensor Learning  
**Track:**Main track  
**Authors:**Ping Li, Jiashi Feng, Xiaojie Jin, Luming Zhang, Xianghua Xu, Shuicheng Yan

**PaperID:**2010  
**Title:**Defending Against Man-In-The-Middle Attack in Repeated Games  
**Track:**Main track  
**Authors:**Shuxin Li, Xiaohong Li, Jianye Hao, BO AN, Zhiyong Feng, Kangjie chen, Chengwei Zhang

**PaperID:**2011  
**Title:**Joint Training for Pivot-based Neural Machine Translation  
**Track:**Main track  
**Authors:**Yong Cheng, Qian Yang, Yang Liu, Maosong Sun, Wei Xu

**PaperID:**2015  
**Title:**Deep Forest: Towards An Alternative to Deep Neural Networks  
**Track:**Main track  
**Authors:**Zhi-Hua Zhou, Ji Feng

**PaperID:**2026  
**Title:**A Structural Representation Learning for Multi-relational Networks  
**Track:**Main track  
**Authors:**Lin Liu, Xin Li, William K. Cheung, Chengcheng Xu

**PaperID:**2032  
**Title:**Segmenting Chinese Microtext: Joint Informal-Word Detection and Segmentation with Neural Networks  
**Track:**Main track  
**Authors:**Meishan Zhang, Guohong Fu, Nan Yu

**PaperID:**2034  
**Title:**Focused Depth-first Proof Number Search using Convolutional Neural Networks for the Game of Hex  
**Track:**Main track  
**Authors:**Chao Gao, Martin Mueller, Ryan Hayward

**PaperID:**2036  
**Title:**Affinity Learning for Mixed Data Clustering  
**Track:**Main track  
**Authors:**Nan Li, Longin Latecki

**PaperID:**2039  
**Title:**Locality Constrained Deep Supervised Hashing for Image Retrieval  
**Track:**Main track  
**Authors:**Hao Zhu, Shenghua Gao

**PaperID:**2042  
**Title:**Online Optimization of Video-Ad Allocation  
**Track:**Main track  
**Authors:**Hanna Sumita, Yasushi Kawase, Sumio Fujita, Takuro Fukunaga

**PaperID:**2048  
**Title:**Weakening Covert Networks by Minimizing Inverse Geodesic Length  
**Track:**Main track  
**Authors:**Haris Aziz, Serge Gaspers, Kamran Najeebullah

**PaperID:**2054  
**Title:**Cross-modal Common Representation Learning by Hybrid Transfer Network  
**Track:**Main track  
**Authors:**Xin Huang, Yuxin Peng, Mingkuan Yuan

**PaperID:**2061  
**Title:**From Neural Sentence Summarization to Headline Generation: A Coarse-to-Fine Approach  
**Track:**Main track  
**Authors:**Jiwei Tan, Xiaojun Wan, Jianguo Xiao

**PaperID:**2062  
**Title:**Learning Discriminative Correlation Subspace for Heterogeneous Domain Adaptation  
**Track:**Main track  
**Authors:**Yuguang Yan, Wen Li, Michael Ng, Mingkui Tan, Qingyao Wu, Hanrui Wu, Huaqing Min

**PaperID:**2063  
**Title:**Representativeness-aware Aspect Analysis for Brand Monitoring in Social Media  
**Track:**Main track  
**Authors:**Lizi Liao, Xiangnan He, Zhaochun Ren, Liqiang Nie, Huan Xu, Tatseng Chua

**PaperID:**2064  
**Title:**Dual Track Multimodal Automatic Learning through Human-Robot Interaction  
**Track:**Main track  
**Authors:**Shuqiang Jiang, Weiqing Min, Xue Li, Huayang Wang, Jian Sun, Jiaqi Zhou

**PaperID:**2065  
**Title:**CFNN: Correlation Filter Neural Network for Visual Object Tracking  
**Track:**Main track  
**Authors:**Yang Li, Zhan Xu, Jianke Zhu

**PaperID:**2068  
**Title:**Online Multitask Relative Similarity Learning  
**Track:**Main track  
**Authors:**SHUJI HAO, Peilin Zhao, Yong Liu, Steven Hoi, Chunyan Miao

**PaperID:**2069  
**Title:**Deep Descriptor Transforming for Image Co-Localization  
**Track:**Main track  
**Authors:**Xiu-Shen Wei, Chen-Lin Zhang, Yao Li, Chen-Wei Xie, Jianxin Wu, Chunhua Shen, Zhi-Hua Zhou

**PaperID:**2071  
**Title:**WALKING WALKing walking: Action Recognition from Action Echoes  
**Track:**Main track  
**Authors:**Qianli Ma, Lifeng Shen, Enhuan Chen, Shuai Tian, Jiabing Wang, Garrison Cottrell

**PaperID:**2072  
**Title:**Efficient Private ERM for Smooth Objectives  
**Track:**Main track  
**Authors:**Jiaqi Zhang, Kai Zheng, Wenlong Mou, Liwei Wang

**PaperID:**2073  
**Title:**Obtaining High-Quality Label by Distinguishing between Easy and Hard Items in Crowdsourcing  
**Track:**Main track  
**Authors:**Wei Wang, Xiang-Yu Guo, Shao-Yuan Li, Yuan Jiang, Zhi-Hua Zhou

**PaperID:**2075  
**Title:**On Neighborhood Singleton Consistencies  
**Track:**Main track  
**Authors:**Kostas Stergiou, Anastasia Paparrizou

**PaperID:**2077  
**Title:**Improving the Generalization Performance of Multi-class SVM via Angular Regularization  
**Track:**Main track  
**Authors:**Jianxin Li, Haoyi Zhou, Pengtao Xie, Yingchun Zhang

**PaperID:**2080  
**Title:**Fast Network Embedding Enhancement via High Order Proximity Approximation  
**Track:**Main track  
**Authors:**Cheng Yang, Maosong Sun, Zhiyuan Liu, Cunchao Tu

**PaperID:**2094  
**Title:**A Variational Autoencoding Approach for Inducing Cross-lingual Word Embeddings  
**Track:**Main track  
**Authors:**Liangchen Wei, Zhi-Hong Deng

**PaperID:**2096  
**Title:**DeepFacade: A Deep Learning Approach to Facade Parsing  
**Track:**Main track  
**Authors:**Hantang Liu, Jialiang Zhang, Jianke Zhu, Steven Hoi

**PaperID:**2097  
**Title:**Online Roommate Allocation Problem  
**Track:**Main track  
**Authors:**Guangda Huzhang, Xin Huang, Shengyu Zhang, Xiaohui Bei

**PaperID:**2101  
**Title:**Ordinal Zero-Shot Learning  
**Track:**Main track  
**Authors:**Zengwei Huo, Xin Geng

**PaperID:**2106  
**Title:**An Improved Approximation Algorithm for the Subpath Planning Problem and Its Generalization  
**Track:**Main track  
**Authors:**Hanna Sumita, Yuuma Yonebayashi, Naonori Kakimura, Ken-ichi Kawarabayashi

**PaperID:**2110  
**Title:**A Core-Guided Approach to Learning Optimal Causal Graphs  
**Track:**Main track  
**Authors:**Antti Hyttinen, Paul Saikko, Matti Järvisalo

**PaperID:**2114  
**Title:**Semi-Supervised Deep Hashing with a Bipartite Graph  
**Track:**Main track  
**Authors:**Xinyu Yan, Lijun Zhang, Wu-Jun Li

**PaperID:**2115  
**Title:**Sense Beauty by Label Distribution Learning  
**Track:**Main track  
**Authors:**Yi Ren, Xin Geng

**PaperID:**2119  
**Title:**Global-residual and Local-boundary Refinement Networks for Rectifying Scene Parsing Predictions  
**Track:**Main track  
**Authors:**Rui Zhang, Sheng Tang, Min Lin, Jintao Li, Shuicheng Yan

**PaperID:**2132  
**Title:**Automatic Assessment of Absolute Sentence Complexity  
**Track:**Main track  
**Authors:**Sanja Stajner, Simone Paolo Ponzetto, Heiner Stuckenschmidt

**PaperID:**2135  
**Title:**Learning the Trend in Time Series via Hybrid Neural Networks  
**Track:**Main track  
**Authors:**Tao Lin, tian guo, karl aberer

**PaperID:**2139  
**Title:**Variational Deep Embedding: An Unsupervised and Generative Approach to Clustering  
**Track:**Main track  
**Authors:**Zhuxi Jiang, Yin Zheng, Huachun Tan, Bangsheng Tang, Hanning Zhou

**PaperID:**2142  
**Title:**Blue Skies: A Methodology for Data-Driven Clear Sky Modelling  
**Track:**Main track  
**Authors:**Kartik Palani, Ramachandra Kota, Amar Prakash Azad, Vijay Arya

**PaperID:**2146  
**Title:**Handling Multi-Task Learning with Deep Reinforcement Learning  
**Track:**Main track  
**Authors:**Zhaoyang Yang, Kathryn Merrick, Hussein Abbass, Lianwen Jin

**PaperID:**2153  
**Title:**Robust Asymmetric Bayesian Adaptive Matrix Factorization  
**Track:**Main track  
**Authors:**Xin Guo, Boyuan Pan, Deng Cai, Xiaofei He

**PaperID:**2162  
**Title:**Multiple Medoids based Multi-view Relational Fuzzy Clustering with Minimax Optimization  
**Track:**Main track  
**Authors:**Yangtao Wang, Lihui Chen, Xiaoli Li

**PaperID:**2163  
**Title:**Rescale-Invariant SVM for Binary Classification  
**Track:**Main track  
**Authors:**Mojtaba Montazery, Nic Wilson

**PaperID:**2164  
**Title:**Iterative Entity Alignment via Joint Knowledge Embeddings  
**Track:**Main track  
**Authors:**Hao Zhu, Ruobing Xie, Zhiyuan Liu, Maosong Sun

**PaperID:**2165  
**Title:**Symmetric Non-negative Latent Factor Models for Undirected Large Networks  
**Track:**Main track  
**Authors:**Xin Luo, Ming-Sheng Shang, Zidong Wang

**PaperID:**2166  
**Title:**Networked Fairness in Cake Cutting  
**Track:**Main track  
**Authors:**Xiaohui Bei, Youming Qiao, Shengyu Zhang

**PaperID:**2167  
**Title:**Dominance and Optimisation Based on Scale-Invariant Maximum Margin Preference Learning  
**Track:**Main track  
**Authors:**Mojtaba Montazery, Nic Wilson

**PaperID:**2181  
**Title:**Optimal Escape Interdiction on Transportation Networks  
**Track:**Main track  
**Authors:**Youzhi Zhang, BO AN, Long Tran-Thanh, Nicholas R. Jennings, Zhen Wang, Jiarui Gan

**PaperID:**2183  
**Title:**Attentional Factorization Machines: Learning the Weight of Feature Interactions via Attention Networks  
**Track:**Main track  
**Authors:**Xiangnan He, Jun Xiao, Fei Wu, Hanwang Zhang, Tatseng Chua

**PaperID:**2184  
**Title:**Non-Determinism and the Dynamics of Knowledge  
**Track:**Main track  
**Authors:**Christos Moyzes, Andreas Herzig, Wiebe van der Hoek, Davide Grossi

**PaperID:**2191  
**Title:**Near-feasible stable matchings with budget constraints  
**Track:**Main track  
**Authors:**Yasushi Kawase, Atsushi Iwasaki

**PaperID:**2196  
**Title:**Training Group Orthogonal Neural Networks with Privileged Information  
**Track:**Main track  
**Authors:**Yunpeng Chen, Xiaojie Jin, Jiashi Feng, shuicheng yan

**PaperID:**2205  
**Title:**Enhancing Sustainability of Complex Epidemiological Models through a Generic Multilevel Agent-based Approach  
**Track:**Main track  
**Authors:**Sebastien Picault, Yu-Lin Huang, Vianney Sicard, Pauline Ezanno

**PaperID:**2206  
**Title:**How to Keep a Knowledge Base Synchronized with Its Encyclopedia Source  
**Track:**Main track  
**Authors:**Jiaqing Liang, Sheng Zhang, Yanghua Xiao

**PaperID:**2214  
**Title:**Induction of Interpretable Possibilistic Logic Theories from Relational Data  
**Track:**Main track  
**Authors:**Ondrej Kuzelka, Jesse Davis, Steven Schockaert

**PaperID:**2217  
**Title:**Tag Disentangled Generative Adversarial Network for Object Image Re-rendering  
**Track:**Main track  
**Authors:**Chaoyue Wang, Chaohui Wang, Chang Xu, Dacheng Tao

**PaperID:**2220  
**Title:**Fast Stochastic Variance Reduced ADMM for Stochastic Composition Optimization  
**Track:**Main track  
**Authors:**Yue Yu, Longbo Huang

**PaperID:**2223  
**Title:**On Creating Complementary Pattern Databases  
**Track:**Main track  
**Authors:**Santiago Franco, Alvaro Torralba, Levi Lelis, Mike Barley

**PaperID:**2228  
**Title:**Discriminant Tensor Dictionary Learning with Neighbor Uncorrelation for Image Set based Classification  
**Track:**Main track  
**Authors:**Fei Wu, Xiao-Yuan Jing, Wangmeng Zuo, Ruiping Wang, Xiaoke Zhu

**PaperID:**2235  
**Title:**Binary Linear Compression for Multi-label Classification  
**Track:**Main track  
**Authors:**Wen-Ji Zhou, Yang Yu, Min-Ling Zhang

**PaperID:**2238  
**Title:**Reformulating Queries: Theory and Practice  
**Track:**Main track  
**Authors:**Michael Benedikt, Egor Kostylev, Fabio Mogavero, Efthymia Tsamoura

**PaperID:**2240  
**Title:**Learning Mahalanobis Distance Metric: Considering Instance Disturbance Helps  
**Track:**Main track  
**Authors:**Han-Jia Ye, De-Chuan Zhan, Xue-Min Si, Yuan Jiang

**PaperID:**2245  
**Title:**Image Matching via Loopy RNN  
**Track:**Main track  
**Authors:**Donghao Luo, Bingbing Ni, Yichao YAN, Xiaokang Yang

**PaperID:**2248  
**Title:**Knowledge Graph Representation with Jointly Structural and Textual Encoding  
**Track:**Main track  
**Authors:**Jiacheng Xu, Xipeng Qiu, Kan Chen, Xuanjing Huang

**PaperID:**2254  
**Title:**A Recursive Shortcut for CEGAR: Application To The Modal Logic K Satisfiability Problem  
**Track:**Main track  
**Authors:**Jean-Marie Lagniez, Daniel Le Berre, Tiago de Lima, Valentin Montmirail

**PaperID:**2264  
**Title:**CGANs: Conditional Generative Adversarial Networks for Commonsense Machine Comprehension  
**Track:**Main track  
**Authors:**Bingning Wang, kang liu, jun zhao

**PaperID:**2267  
**Title:**Mention Recommendation for Twitter with End-to-end Memory Network  
**Track:**Main track  
**Authors:**Haoran Huang, Qi Zhang, Xuanjing Huang

**PaperID:**2268  
**Title:**End-to-end optimization of goal-driven and multi-modal dialogue systems  
**Track:**Main track  
**Authors:**Florian Strub, Harm de Vries, Jérémie Mary, Bilal Piot, Aaron Courville, Olivier Pietquin

**PaperID:**2276  
**Title:**Saliency Guided End-to-End Learning for Weakly Supervised Object Detection  
**Track:**Main track  
**Authors:**Baisheng Lai, Xiaojin Gong

**PaperID:**2278  
**Title:**Ontology-Mediated Querying with the Description Logic EL: Trichotomy and Linear Datalog Rewritability  
**Track:**Main track  
**Authors:**Carsten Lutz, Leif Sabellek

**PaperID:**2286  
**Title:**Sequence Prediction with Unlabeled Data by Reward Function Learning  
**Track:**Main track  
**Authors:**Lijun Wu, Li Zhao, Tao Qin, Tie-Yan Liu, Jianhuang Lai

**PaperID:**2290  
**Title:**Attachment Centrality for Weighted Graphs  
**Track:**Main track  
**Authors:**Jadwiga Sosnowska, Oskar Skibski

**PaperID:**2292  
**Title:**Query Conservative Extensions in Horn Description Logics with Inverse Roles  
**Track:**Main track  
**Authors:**Jean Christoph Jung, Carsten Lutz, Mauricio Martel, Thomas Schneider

**PaperID:**2298  
**Title:**Streaming Multi-Context Systems  
**Track:**Main track  
**Authors:**Minh Dao-Tran, Thomas Eiter

**PaperID:**2307  
**Title:**Inverted Bilingual Topic Models for Lexicon Extraction from Non-parallel Data  
**Track:**Main track  
**Authors:**Tengfei Ma, Tetsuya Nasukawa

**PaperID:**2309  
**Title:**Factorized Asymptotic Bayesian Policy Search for POMDPs  
**Track:**Main track  
**Authors:**Masaaki Imaizumi, Ryohei Fujimaki

**PaperID:**2312  
**Title:**Handling non-local dead-ends in Agent Planning Programs  
**Track:**Main track  
**Authors:**Lukas Chrpa, Sebastian Sardina, Nir Lipovetzky

**PaperID:**2315  
**Title:**Cross-Granularity Graph Inference for Semantic Video Object Segmentation  
**Track:**Main track  
**Authors:**Huiling Wang, Tinghuai Wang, Ke Chen, Joni-Kristian Kämäräinen

**PaperID:**2317  
**Title:**Multi-view Feature Learning with Discriminative Regularization  
**Track:**Main track  
**Authors:**Jinglin Xu, Junwei Han, Feiping Nie

**PaperID:**2319  
**Title:**Hashtag Recommendation for Multimodal Microblog Using Co-Attention Network  
**Track:**Main track  
**Authors:**Qi Zhang, Jiawen Wang, Haoran Huang, Xuanjing Huang, Yeyun Gong

**PaperID:**2324  
**Title:**Grounding of Human Environments and Activities for Autonomous Robots  
**Track:**Main track  
**Authors:**Majd Hawasly, Muhannad Al-Omari, Paul Duckworth, Nils Bore, David C. Hogg, Anthony Cohn

**PaperID:**2326  
**Title:**Flexible Orthogonal Neighborhood Preserving Embedding  
**Track:**Main track  
**Authors:**Tianji Pang, Feiping Nie, Junwei Han

**PaperID:**2328  
**Title:**Adaptive Elicitation of Preferences under Uncertainty in Sequential Decision Making Problems  
**Track:**Main track  
**Authors:**Nawal Benabbou, Patrice Perny

**PaperID:**2335  
**Title:**Orthogonal and Nonnegative Graph Reconstruction for Large Scale Clustering  
**Track:**Main track  
**Authors:**Kai Xiong, Junwei Han, Feiping Nie

**PaperID:**2339  
**Title:** Linear Manifold Regularization with Adaptive Graph for Semi-supervised Dimensionality Reduction  
**Track:**Main track  
**Authors:**Kai Xiong, Feiping Nie, Junwei Han

**PaperID:**2341  
**Title:**Contest Design with Uncertain Performance and Costly Participation  
**Track:**Main track  
**Authors:**Priel Levy, David Sarne, Igor Rochlin

**PaperID:**2347  
**Title:**The Tractability of the Shapley Value over Bounded Treewidth Matching Games  
**Track:**Main track  
**Authors:**Gianluigi Greco, Francesco Lupia, Francesco Scarcello

**PaperID:**2350  
**Title:**Dynamic Weighted Majority for Incremental Learning of Imbalanced Data Streams with Concept Drift  
**Track:**Main track  
**Authors:**Yang Lu, Yiu-ming Cheung, Yuan Yan Tang

**PaperID:**2353  
**Title:**Voting by sequential elimination with few voters  
**Track:**Main track  
**Authors:**Sylvain Bouveret, yann chevaleyre, François Durand, Jerome Lang

**PaperID:**2367  
**Title:**Unsupervised Deep Video Hashing with Balanced Rotation  
**Track:**Main track  
**Authors:**Gengshen Wu, Li Liu, Yuchen Guo, Guiguang Ding, Jungong Han, Jialie Shen, Ling Shao

**PaperID:**2372  
**Title:**A Data-Driven Approach to Infer Knowledge Base Representation for Natural Language Relations  
**Track:**Main track  
**Authors:**Kangqi Luo, Xusheng Luo, Xianyang Chen, Kenny Zhu

**PaperID:**2376  
**Title:**End-to-End Adversarial Memory Network for Cross-domain Sentiment Classification  
**Track:**Main track  
**Authors:**Zheng LI, Yu Zhang, Ying WEI, Yuxiang Wu, Qiang Yang

**PaperID:**2378  
**Title:**Pessimistic Leader-Follower Equilibria with Multiple Followers  
**Track:**Main track  
**Authors:**Stefano Coniglio, Alberto Marchesi, Nicola Gatti

**PaperID:**2383  
**Title:**Deep Multi-species Embedding  
**Track:**Main track  
**Authors:**Yexiang Xue, Di Chen, Daniel Fink, Shuo Chen, Carla P. Gomes

**PaperID:**2390  
**Title:**A Bayesian Approach to Argument-Based Reasoning for Attack Estimation  
**Track:**Main track  
**Authors:**Hiroyuki Kido, Keishi Okamoto

**PaperID:**2396  
**Title:**A Characterization Theorem for a Modal Description Logic  
**Track:**Main track  
**Authors:**Paul Wild, Lutz Schröder

**PaperID:**2397  
**Title:**Convolutional-Match Networks for Question Answering  
**Track:**Main track  
**Authors:**Spyridon Samothrakis, Tom Vodopivec, Michael Fairbank, Maria Fasli

**PaperID:**2402  
**Title:**Fair Division of a Graph  
**Track:**Main track  
**Authors:**Sylvain Bouveret, Katarína Cechlárová, Edith Elkind, Ayumi Igarashi, Dominik Peters

**PaperID:**2404  
**Title:**Player Movement Models for Video Game Level Generation  
**Track:**Main track  
**Authors:**Sam Snodgrass, Santiago Ontañón

**PaperID:**2409  
**Title:**Forecast the Plausible Paths in Crowd Scenes  
**Track:**Main track  
**Authors:**Hang Su, Jun Zhu, Yinpeng Dong, Bo Zhang

**PaperID:**2410  
**Title:**Analogy-preserving functions: A way to extend Boolean samples  
**Track:**Main track  
**Authors:**Nicolas Hug, Henri Prade, Miguel Couceiro, Gilles Richard

**PaperID:**2411  
**Title:**Learning from Ontology Streams with Semantic Concept Drift  
**Track:**Main track  
**Authors:**Freddy Lecue, Hujun Chen, Jiaoyan Chen, Jeff Z. Pan

**PaperID:**2416  
**Title:**A Scalable Approach to Chasing Multiple Moving Targets with Multiple Agents  
**Track:**Main track  
**Authors:**Fan Xie, Adi Botea, Akihiro Kishimoto

**PaperID:**2418  
**Title:**Efficient Inference and Computation of Optimal Alternatives for Preference Languages Based On Lexicographic Models  
**Track:**Main track  
**Authors:**Nic Wilson, Anne-Marie George

**PaperID:**2427  
**Title:**Learning Concise Representations of Users' Influences through Online Behaviors  
**Track:**Main track  
**Authors:**Shenghua Liu, Houdong Zheng, Huawei Shen, Xueqi Cheng, Xiangwen Liao

**PaperID:**2431  
**Title:**A Partitioning Algorithm for Maximum Common Subgraph Problems  
**Track:**Main track  
**Authors:**Ciaran McCreesh, Patrick Prosser, James Trimble

**PaperID:**2437  
**Title:**Incremental Decision Making Under Risk with the Weighted Expected Utility Model  
**Track:**Main track  
**Authors:**Hugo Gilbert, Nawal Benabbou, Patrice Perny, Olivier Spanjaard, Paolo Viappiani

**PaperID:**2438  
**Title:**Self-paced Mixture of Regression  
**Track:**Main track  
**Authors:**Longfei Han, Dingwen Zhang, Dong Huang, XIAOJUN CHANG, Senlin Luo, Jun Ren, Junwei Han

**PaperID:**2440  
**Title:**Foundations of Declarative Data Analysis Using Limit Datalog Programs  
**Track:**Main track  
**Authors:**Mark Kaminski, Bernardo Cuenca Grau, Egor Kostylev, Boris Motik, Ian Horrocks

**PaperID:**2444  
**Title:**Learning to Learn Programs from Examples: Going Beyond Program Structure  
**Track:**Main track  
**Authors:**Kevin Ellis, Sumit Gulwani

**PaperID:**2450  
**Title:**What can you do with a rock? Affordance extraction via word embeddings  
**Track:**Main track  
**Authors:**Nancy Fulda, Daniel Ricks, Ben Murdoch, David Wingate

**PaperID:**2466  
**Title:**COG-DICE: An Algorithm for Solving Continuous-Observation Dec-POMDPs  
**Track:**Main track  
**Authors:**Madison Clark-Turner, Chris Amato

**PaperID:**2470  
**Title:**Dual Inference for Machine Learning  
**Track:**Main track  
**Authors:**Yingce Xia, Jiang Bian, Tao Qin, Nenghai Yu, Tie-Yan Liu

**PaperID:**2472  
**Title:**App Download Forecasting: An Evolutionary Hierarchical Competition Approach  
**Track:**Main track  
**Authors:**Yingzi Wang, Nicholas Jing Yuan, Yu Sun, Chuan Qin, Xing Xie

**PaperID:**2473  
**Title:**MLAM-RNN: Multi-Level Attention Model Based RNN for Video Captioning  
**Track:**Main track  
**Authors:**Xuelong Li, Xiaoqiang Lu, Bin Zhao

**PaperID:**2477  
**Title:**Order Statistics for Probabilistic Graphical Models  
**Track:**Main track  
**Authors:**David Smith, Sara Rouhani, Vibhav Gogate

**PaperID:**2482  
**Title:**Creative ontology alignment repair through communication  
**Track:**Main track  
**Authors:**Jérôme Euzenat

**PaperID:**2485  
**Title:**Automatic Synthesis of Smart Table Constraints by Abstraction of Table Constraints  
**Track:**Main track  
**Authors:**Baudouin Le Charlier, Minh Thanh KHONG, Christophe Lecoutre, Yves Deville

**PaperID:**2492  
**Title:**Belief Change in a Preferential Non-monotonic Framework  
**Track:**Main track  
**Authors:**Giovanni Casini, Thomas Meyer

**PaperID:**2495  
**Title:**On Computing Epistemic Logic Program World Views  
**Track:**Main track  
**Authors:**Tran Son, Tiep Le, Patrick Kahl, Anthony Leclerc

**PaperID:**2499  
**Title:**Self-paced Compensatory Deep Boltzmann Machine for Semi-Structured Document Embedding  
**Track:**Main track  
**Authors:**Shuangyin Li, Rong Pan, Jun Yan

**PaperID:**2500  
**Title:**Generalized Target Assignment and Path Finding Using Answer Set Programming  
**Track:**Main track  
**Authors:**Van Nguyen, Philipp Obermeier, Tran Son, Torsten Schaub, William Yeoh

**PaperID:**2508  
**Title:**Additive Merge-and-Shrink Heuristics for Diverse Action Costs  
**Track:**Main track  
**Authors:**Gaojian Fan, Martin Mueller, Robert Holte

**PaperID:**2509  
**Title:**Reasoning about Probabilities in Unbounded Dynamical Domains  
**Track:**Main track  
**Authors:**Vaishak Belle, Gerhard Lakemeyer

**PaperID:**2513  
**Title:**Stochastic Constraint Programming with And-Or Branch-and-Bound  
**Track:**Main track  
**Authors:**Behrouz Babaki, Tias Guns, Luc de Raedt

**PaperID:**2519  
**Title:**Fast Change Point Detection on Dynamic Social Networks  
**Track:**Main track  
**Authors:**Yu Wang, Aniket Chakrabarti, David Sivakoff, Srinivasan Parthasarathy

**PaperID:**2521  
**Title:**Parameterised Verification of Data-aware Multi-agent Systems  
**Track:**Main track  
**Authors:**Francesco Belardinelli, Panagiotis Kouvaros, Alessio Lomuscio

**PaperID:**2522  
**Title:**Salient Object Detection with Semantic Priors  
**Track:**Main track  
**Authors:**Tam Nguyen, Luoqi Liu

**PaperID:**2530  
**Title:**Reduction Techniques for Model Checking and Learning in MDPs  
**Track:**Main track  
**Authors:**Suda Bharadwaj, Stephane Le Roux, Guillermo Perez, Ufuk Topcu

**PaperID:**2534  
**Title:**Robust Quadratic Programming for Price Optimization  
**Track:**Main track  
**Authors:**Akihiro Yabe, Shinji Ito, Ryohei Fujimaki

**PaperID:**2538  
**Title:**Consistent Bayesian Network Scores for Multi-Relational Data  
**Track:**Main track  
**Authors:**Oliver Schulte, Sajjad Gholami

**PaperID:**2539  
**Title:**A Unifying Framework for Probabilistic Belief Revision  
**Track:**Main track  
**Authors:**ZHIQIANG ZHUANG, James Delgrande, Abhaya Nayak, Abdul Sattar

**PaperID:**2542  
**Title:**The Bag Semantics of Ontology-Based Data Access  
**Track:**Main track  
**Authors:**Charalampos Nikolaou, Egor Kostylev, George Konstantinidis, Mark Kaminski, Bernardo Cuenca Grau, Ian Horrocks

**PaperID:**2545  
**Title:**Neurogenesis-Inspired Dictionary Learning: Online Model Adaption in a Changing World  
**Track:**Main track  
**Authors:**Sahil Garg, Irina Rish, Guillermo Cecchi, Aurelie Lozano

**PaperID:**2551  
**Title:**Front-to-End Bidirectional Heuristic Search with Near-Optimal Node Expansions  
**Track:**Main track  
**Authors:**Nathan Sturtevant, Jingwei Chen, Robert Holte, Sandra Zilles

**PaperID:**2553  
**Title:**Stacking With Auxiliary Features  
**Track:**Main track  
**Authors:**Nazneen Fatema Rajani, Raymond Mooney

**PaperID:**2563  
**Title:**Further Results on Predicting Cognitive Abilities for Adaptive Visualizations  
**Track:**Main track  
**Authors:**Cristina Conati, Sébastien Lallé, Md Abed Rahman, Dereck Toker

**PaperID:**2565  
**Title:**Efficient Inexact Proximal Gradient Algorithm for Nonconvex Problems  
**Track:**Main track  
**Authors:**Quanming Yao, James Kwok, Fei Gao, Wei Chen, Tie-Yan Liu

**PaperID:**2568  
**Title:**Learning to Run Heuristics in Tree Search  
**Track:**Main track  
**Authors:**Elias Khalil, Bistra Dilkina, George Nemhauser, Shabbir Ahmed, Yufen Shao

**PaperID:**2570  
**Title:**Incremental Matrix Factorization: A Linear Feature Transformation Perspective  
**Track:**Main track  
**Authors:**Xunpeng Huang, Le Wu, Enhong Chen, Hengshu Zhu, Qi Liu, Yijun Wang

**PaperID:**2573  
**Title:**Improved Neural Machine Translation with Source Syntax  
**Track:**Main track  
**Authors:**Shuangzhi Wu, Ming Zhou, Dongdong Zhang

**PaperID:**2577  
**Title:**User Profile Preserving Social Network Embedding  
**Track:**Main track  
**Authors:**Daokun Zhang, Jie Yin, Xingquan Zhu, Chengqi Zhang

**PaperID:**2593  
**Title:**No Pizza for you: Value-based plan selection in BDI agents  
**Track:**Main track  
**Authors:**Stephen Cranefield, Michael Winikoff, Virginia Dignum, Frank Dignum

**PaperID:**2597  
**Title:**Cause-Effect Knowledge Acquisition and Neural Association Model for Solving A Set of Winograd Schema Problems  
**Track:**Main track  
**Authors:**Quan Liu, Hui Jiang, Andrew Evdokimov, Zhen-Hua Ling, Xiaodan Zhu, Si Wei, Yu Hu

**PaperID:**2600  
**Title:**Restart and Random Walk in Local Search for Maximum Vertex Weight Cliques  
**Track:**Main track  
**Authors:**Yi Fan, Nan Li, Chengqian Li, Zongjie Ma, Kaile Su, Longin Latecki

**PaperID:**2608  
**Title:**Stance Classification with Target-specific Neural Attention  
**Track:**Main track  
**Authors:**Jiachen Du, Ruifeng Xu, Yulan He, Lin Gui

**PaperID:**2611  
**Title:**TransNet: Translation-Based Network Representation Learning for Social Relation Extraction  
**Track:**Main track  
**Authors:**Cunchao Tu, Zhengyan Zhang, Zhiyuan Liu, Maosong Sun

**PaperID:**2614  
**Title:**Multi-Component Nonnegative Matrix Factorization  
**Track:**Main track  
**Authors:**Jing Wang, Feng Tian, Xiao Wang, Hongchuan Yu, Chang Hong Liu, Liang Yang

**PaperID:**2618  
**Title:**DeepFM: A Factorization-Machine based Neural Network for CTR Prediction  
**Track:**Main track  
**Authors:**Huifeng Guo, Ruiming TANG, Yunming Ye, Zhenguo Li, Xiuqiang He

**PaperID:**2619  
**Title:**An Effective Learnt Clause Minimization Approach for CDCL SAT Solvers  
**Track:**Main track  
**Authors:**Mao Luo, Chu-Min Li, Fan Xiao, Felip Manyà, Zhipeng Lv

**PaperID:**2624  
**Title:**Crowd Learning: Improving Online Decision Making Using Crowdsourced Data  
**Track:**Main track  
**Authors:**Yang Liu, Mingyan Liu

**PaperID:**2625  
**Title:**Synthesizing Samples for Zero-shot Learning  
**Track:**Main track  
**Authors:**Yuchen Guo, Guiguang Ding, Jungong Han, Yue Gao

**PaperID:**2627  
**Title:**Deep Supervised Hashing with Nonlinear Projections  
**Track:**Main track  
**Authors:**Sen Su, Gang Chen, Xiang Cheng, Rong Bi

**PaperID:**2634  
**Title:**Data-driven Random Fourier Features by Stein Effect  
**Track:**Main track  
**Authors:**Wei-Cheng Chang, Chun-Liang Li, Yiming Yang, Barnabas Poczos

**PaperID:**2648  
**Title:**SVD-free Convex-Concave Approaches for Nuclear Norm Regularization  
**Track:**Main track  
**Authors:**Yichi Xiao, Zhe Li, Tianbao Yang, Lijun Zhang

**PaperID:**2665  
**Title:**Learning User Intrinsic and Extrinsic Interests for Point-of-Interest Recommendation: A Unified Approach  
**Track:**Main track  
**Authors:**Huayu Li, Defu Lian, Yong Ge, Hao Liu

**PaperID:**2668  
**Title:**Multi-Agent Planning with Baseline Regret Minimization  
**Track:**Main track  
**Authors:**Feng Wu, Shlomo Zilberstein, Xiaoping Chen

**PaperID:**2677  
**Title:**Joint Learning on Relevant User Attributions in Micro-blog  
**Track:**Main track  
**Authors:**Jingjing Wang, Shoushan Li, Guodong Zhou

**PaperID:**2685  
**Title:**Causal Discovery in the Presence of Distribution Shift: Skeleton Estimation and Orientation Determination  
**Track:**Main track  
**Authors:**Kun Zhang, Biwei Huang, Jiji Zhang, Bernhard Schölkopf, Clark Glymour

**PaperID:**2688  
**Title:**Accelerated Local Anomaly Detection via Resolving Attributed Networks  
**Track:**Main track  
**Authors:**Ninghao Liu, Xiao Huang, Xia Hu

**PaperID:**2690  
**Title:**AccGenSVM: Selectively Transferring from Previous Hypotheses  
**Track:**Main track  
**Authors:**Diana Benavides-Prado, Yun Sing Koh, Patricia Riddle

**PaperID:**2694  
**Title:**Estimating the size of search trees by sampling with domain knowledge  
**Track:**Main track  
**Authors:**Gleb Belov, Samuel Esler, Dylan Fernando, Pierre Le Bodic, George Nemhauser

**PaperID:**2695  
**Title:**Link Prediction with Spatial and Temporal Consistency in Dynamic Networks  
**Track:**Main track  
**Authors:**Wenchao Yu, Wei Cheng, Wei Wang, Charu C Aggarwal, Haifeng Chen

**PaperID:**2699  
**Title:**Playing Repeated Network Interdiction Games with Semi-Bandit Feedback  
**Track:**Main track  
**Authors:**Qingyu Guo, Bo An, Long Tran-Thanh

**PaperID:**2705  
**Title:**Comparing Strategic Secrecy and Stackelberg Commitment in Security Games  
**Track:**Main track  
**Authors:**Qingyu Guo, Bo An, Branislav Bošanský, Christopher Kiekintveld

**PaperID:**2708  
**Title:**Tracking the Evolution of Customer Purchase Behavior Segmentation via a Fragmentation-Coagulation Process  
**Track:**Main track  
**Authors:**Ling Luo, Bin Li, Irena Koprinska, Shlomo Berkovsky, Fang Chen

**PaperID:**2709  
**Title:**Deceptive path-planning  
**Track:**Main track  
**Authors:**Peta Masters, Sebastian Sardina

**PaperID:**2712  
**Title:**Joint Image Emotion Classification and Distribution Learning via Deep Convolutional Neural Network  
**Track:**Main track  
**Authors:**Jufeng Yang, Dongyu She, Ming Sun

**PaperID:**2724  
**Title:**LoCaTe: Influence Quantification for Location Promotion in Location-based Social Networks  
**Track:**Main track  
**Authors:**Ankita Likhyani, Srikanta Bedathur, Deepak P

**PaperID:**2727  
**Title:**Learning Discriminative Recommendation Systems with Side Information  
**Track:**Main track  
**Authors:**Feipeng Zhao, Yuhong Guo

**PaperID:**2728  
**Title:**Semi-Supervised Orthogonal Graph Embedding with Recursive Projections  
**Track:**Main track  
**Authors:**Hanyang Liu, Junwei Han, Feiping Nie

**PaperID:**2730  
**Title:**Deep Matrix Factorization Models for Recommender Systems  
**Track:**Main track  
**Authors:**Hongjian Xue, Xin-Yu Dai, Zhang Jianbing, Shujian Huang, Chen Jiajun

**PaperID:**2736  
**Title:**Strategically knowing how  
**Track:**Main track  
**Authors:**Raul Fervari, Andreas Herzig, Yanjun Li, Yanjing Wang

**PaperID:**2737  
**Title:**Life-Stage Modeling by Customer-Manifold Embedding  
**Track:**Main track  
**Authors:**JingWen Yang, Yang Yu, Xiao-Peng Zhang

**PaperID:**2743  
**Title:**Deep-dense Conditional Random Fields for Object Co-segmentation  
**Track:**Main track  
**Authors:**zehuan yuan, Tong Lu, Yirui Wu

**PaperID:**2749  
**Title:**A Dual-Stage Attention-Based Recurrent Neural Network for Time Series Prediction  
**Track:**Main track  
**Authors:**Yao Qin, Dongjin Song, Haifeng Chen, Wei Cheng, Geoff Jiang, Garrison Cottrell

**PaperID:**2752  
**Title:**Staying Ahead of the Game: Adaptive Robust Optimization for Dynamic Allocation of Threat Screening Resources  
**Track:**Main track  
**Authors:**Sara Marie Mc Carthy, Phebe Vayanos, Milind Tambe

**PaperID:**2774  
**Title:**Learning Feature Engineering for Classification  
**Track:**Main track  
**Authors:**Fatemeh Nargesian, Horst Samulowitz, Udayan Khurana, Elias Khalil, Deepak Turaga

**PaperID:**2776  
**Title:**Autonomous Task Sequencing for Customized Curriculum Design in Reinforcement Learning  
**Track:**Main track  
**Authors:**Sanmit Narvekar, Jivko Sinapov, Peter Stone

**PaperID:**2784  
**Title:**Thresholding Bandits with Augmented UCB  
**Track:**Main track  
**Authors:**Subhojyoti Mukherjee, Naveen Kolar Purushothama, Nandan Sudarsanam, Balaraman Ravindran

**PaperID:**2787  
**Title:**Smoothing Method for Approximate Extensive-Form Perfect Equilibrium  
**Track:**Main track  
**Authors:**Christian Kroer, Gabriele Farina, Tuomas Sandholm

**PaperID:**2788  
**Title:**Inferring Human Attentions by Learning Latent Intentions  
**Track:**Main track  
**Authors:**Ping Wei, Dan Xie, Nanning Zheng, Song-Chun Zhu

**PaperID:**2791  
**Title:**Optimal Posted-Price Mechanism in Microtask Crowdsourcing  
**Track:**Main track  
**Authors:**Zehong Hu, Jie Zhang

**PaperID:**2798  
**Title:**Understanding People Lifestyles: Construction of Urban Movement Knowledge Graph from GPS Trajectory  
**Track:**Main track  
**Authors:**Chenyi Zhuang, Nicholas Jing Yuan, Ruihua Song, Xing Xie, Qiang Ma

**PaperID:**2816  
**Title:**Image-embodied Knowledge Representation Learning  
**Track:**Main track  
**Authors:**Ruobing Xie, Zhiyuan Liu, Huanbo Luan, Maosong Sun

**PaperID:**2822  
**Title:**Compromise-free Pathfinding on a Navigation Mesh  
**Track:**Main track  
**Authors:**Michael Cui, Daniel Harabor, Alban Grastien

**PaperID:**2824  
**Title:**Discriminative Bayesian Nonparametric Clustering  
**Track:**Main track  
**Authors:**Vu Nguyen, Dinh Phung, Trung Le, Hung Bui

**PaperID:**2826  
**Title:**Intelligent Belief State Sampling for Conformant Planning  
**Track:**Main track  
**Authors:**Alban Grastien, Enrico Scala

**PaperID:**2830  
**Title:**Identifying Human Mobility via Trajectory Embeddings  
**Track:**Main track  
**Authors:**Qiang Gao, Fan Zhou, Kunpeng Zhang, Goce Trajcevski, Xucheng Luo, Fengli Zhang

**PaperID:**2844  
**Title:**A Trust-based Mixture of Gaussian Processes Model for Reliable Regression in Participatory Sensing  
**Track:**Main track  
**Authors:**Qikun Xiang, Ido Nevat, Pengfei Zhang, Jie Zhang

**PaperID:**2848  
**Title:**Two dimensional Large Margin Nearest Neighbor for Matrix Classification  
**Track:**Main track  
**Authors:**Junwei Han, Feiping Nie, Kong Song

**PaperID:**2855  
**Title:**Improving Reinforcement Learning with Confidence-Based Demonstrations  
**Track:**Main track  
**Authors:**Zhaodong Wang, Matt Taylor

**PaperID:**2862  
**Title:**AGRA: An Analysis-Generation-Ranking Framework for Automatic Abbreviation from Paper Titles  
**Track:**Main track  
**Authors:**Zhang Jianbing, Yixin Sun, Shujian Huang, Nguyen Cam-tu, Xiaoliang Wang, Xin-Yu Dai, Chen Jiajun, Yang Yu

**PaperID:**2864  
**Title:**Group-wise Deep Co-saliency Detection  
**Track:**Main track  
**Authors:**Lina Wei, Shanshan Zhao, Omar El Farouk Bourahla, Xi Li, Fei Wu

**PaperID:**2865  
**Title:**High Dimensional Bayesian Optimization using Dropout  
**Track:**Main track  
**Authors:**Cheng Li, Sunil Gupta, Santu Rana, Vu Nguyen, Svetha Venkatesh, alistair shilton

**PaperID:**2874  
**Title:**A Correlated Topic Model Using Word Embeddings  
**Track:**Main track  
**Authors:**Guangxu Xun, Yaliang Li, Xin Zhao, Jing Gao, Aidong Zhang

**PaperID:**2879  
**Title:**Deep Optical Flow Estimation Via Multi-Scale Correspondence Structure Learning  
**Track:**Main track  
**Authors:**Shanshan Zhao, Xi Li, Omar El Farouk Bourahla

**PaperID:**2880  
**Title:**Online Bridged Pruning for Real-Time Search with Arbitrary Lookaheads  
**Track:**Main track  
**Authors:**Carlos Hernandez, Adi Botea, Jorge Baier, Vadim Bulitko

**PaperID:**2883  
**Title:**Robust Softmax Regression for Multi-class Classification with Self-Paced Learning  
**Track:**Main track  
**Authors:**Yazhou Ren, Peng Zhao, ZENGLIN Xu, Yongpan Sheng, Dezhong Yao

**PaperID:**2884  
**Title:**Instability Prediction in Power Systems using Recurrent Neural Networks  
**Track:**Main track  
**Authors:**Ankita Gupta, Gurunath Gurrala, P.S. Sastry

**PaperID:**2888  
**Title:**Learning to Identify Ambiguous and Misleading News Headlines  
**Track:**Main track  
**Authors:**Wei Wei, Xiaojun Wan

**PaperID:**2898  
**Title:**Feature Selection via Scaling Factor Integrated Multi-Class Support Vector Machines  
**Track:**Main track  
**Authors:**Jinglin Xu, Feiping Nie, Junwei Han

**PaperID:**2919  
**Title:**Improved Deep Embedded Clustering with Local Structure Preservation  
**Track:**Main track  
**Authors:**Xifeng Guo, Long Gao, Xinwang Liu, Jianping Yin

**PaperID:**2921  
**Title:**Improved Strong Worst-case Upper Bounds for MDP Planning  
**Track:**Main track  
**Authors:**Anchit Gupta, Shivaram Kalyanakrishnan

**PaperID:**2926  
**Title:**Multiple-Weight Recursive Neural Networks  
**Track:**Main track  
**Authors:**Zhu Cao, Linlin Wang, Gerard de Melo

**PaperID:**2933  
**Title:**Privileged Multi-label Learning  
**Track:**Main track  
**Authors:**Shan You, Chang Xu, Yunhe Wang, Chao Xu, Dacheng Tao

**PaperID:**2950  
**Title:**Maintaining Communication in Multi-Robot Tree Exploration  
**Track:**Main track  
**Authors:**Mor Sinay, Oleg Maximov, Noa Agmon, Sarit Kraus, David Peleg

**PaperID:**2951  
**Title:**Bernoulli Rank-1 Bandits for Click Feedback  
**Track:**Main track  
**Authors:**Sumeet Katariya, Branislav Kveton, Csaba Szepesvári, Claire Vernade, Zheng Wen

**PaperID:**2960  
**Title:**Belief Manipulation Through Propositional Announcements  
**Track:**Main track  
**Authors:**Aaron Hunter, François Schwarzentruber, Eric Tsang

**PaperID:**2966  
**Title:**Predicting Human Interaction via Relative Attention Model  
**Track:**Main track  
**Authors:**Yichao YAN, Bingbing Ni, Xiaokang Yang

**PaperID:**2967  
**Title:**Context-aware Path Ranking for Knowledge Base Completion  
**Track:**Main track  
**Authors:**Sahisnu Mazumder, Bing Liu

**PaperID:**2979  
**Title:**A Sequence Labeling Convolutional Network and Its Application to Handwritten String Recognition  
**Track:**Main track  
**Authors:**Qingqing Wang, Yue Lu

**PaperID:**2982  
**Title:**Epistemic-entrenchment Semantics for Parikh’s Axiom  
**Track:**Main track  
**Authors:**Theofanis Aravanis, Pavlos Peppas, Mary-Anne Williams

**PaperID:**2983  
**Title:**Aggregating Crowd Wisdoms with Label-aware Autoencoders  
**Track:**Main track  
**Authors:**Li'ang Yin, Jianhua Han, Weinan Zhang, Yong Yu

**PaperID:**2984  
**Title:**ContextCare: Incorporating Contextual Information Networks to Representation Learning on Medical Forum Data  
**Track:**Main track  
**Authors:**Stan Zhao, Meng Jiang, Quan Yuan, Bing Qin, Ting Liu, ChengXiang Zhai

**PaperID:**2986  
**Title:**Encoding and Recall of Spatio-Temporal Episodic Memory in Real Time  
**Track:**Main track  
**Authors:**Poo Hee Chang, Ah-Hwee Tan

**PaperID:**2988  
**Title:**Modeling Hebb Learning Rule for Unsupervised Learning  
**Track:**Main track  
**Authors:**Jia Liu, Maoguo Gong, Qiguang Miao

**PaperID:**2989  
**Title:**Maximum Expected Likelihood Estimation for Zero-resource Neural Machine Translation  
**Track:**Main track  
**Authors:**Hao Zheng, Yong Cheng, Yang Liu

**PaperID:**2991  
**Title:**Switched Linear Multi-Robot Navigation Using Hierarchical Model Predictive Control  
**Track:**Main track  
**Authors:**Chao Huang, xin chen, Yifan Zhang, Shengchao Qin, Yifeng Zeng, Xuandong Li

**PaperID:**2992  
**Title:**Self-paced Convolutional Neural Networks  
**Track:**Main track  
**Authors:**Hao Li, Maoguo Gong

**PaperID:**3000  
**Title:**Efficient Computation of Extensions for Dynamic Abstract Argumentation Frameworks: An Incremental Approach  
**Track:**Main track  
**Authors:**Gianvincenzo Alfano, Sergio Greco, Francesco Parisi

**PaperID:**3002  
**Title:**DRLnet: Deep Difference Representation Learning Network and An Unsupervised Optimization Framework  
**Track:**Main track  
**Authors:**Puzhao Zhang, Maoguo Gong, Hui Zhang, Jia Liu

**PaperID:**3006  
**Title:**Boosted Zero-Shot Learning with Semantic Correlation Regularization  
**Track:**Main track  
**Authors:**Te Pi, Xi Li, zhongfei (Mark) Zhang

**PaperID:**3009  
**Title:**Learning Hedonic Games  
**Track:**Main track  
**Authors:**Jakub Sliwinski, Yair Zick

**PaperID:**3019  
**Title:**Leveraging Human Knowledge in Tabular Reinforcement Learning: A Study of Human Subjects  
**Track:**Main track  
**Authors:**Ariel Rosenfeld, Matt Taylor, Sarit Kraus

**PaperID:**3026  
**Title:**A Formal Model and Mechanism for Online Organ Matching  
**Track:**Main track  
**Authors:**Nicholas Mattei, Abdallah Saffidine, Toby Walsh

**PaperID:**3027  
**Title:**Dynamic Compositional Neural Networks over Tree Structure  
**Track:**Main track  
**Authors:**Pengfei Liu, Xipeng Qiu, Xuanjing Huang

**PaperID:**3035  
**Title:**Basket-Sensitive Personalized Item Recommendation  
**Track:**Main track  
**Authors:**Duc-Trong Le, Hady W. Lauw, Yuan Fang

**PaperID:**3036  
**Title:**Adaptive Semantic Compositionality for Sentence Modelling  
**Track:**Main track  
**Authors:**Pengfei Liu, Xipeng Qiu, Xuanjing Huang

**PaperID:**3037  
**Title:**Temporal Planning with Clock-Based SMT Encodings  
**Track:**Main track  
**Authors:**Jussi Rintanen

**PaperID:**3042  
**Title:**Dynamic Programming Bipartite Belief Propagation For Hyper Graph Matching  
**Track:**Main track  
**Authors:**Zhen Zhang, Julian McAuley, Yong Li, Wei Wei, Yanning Zhang, Qinfeng Shi

**PaperID:**3043  
**Title:**Pure Nash Equilibria in Online Fair Division  
**Track:**Main track  
**Authors:**Martin Aleksandrov, Toby Walsh

**PaperID:**3047  
**Title:**Efficient Optimal Search under Expensive Edge Cost Computation  
**Track:**Main track  
**Authors:**Masataro Asai, Akihiro Kishimoto, Adi Botea, Radu Marinescu, Elizabeth M. Daly, Spyros Kotoulas

**PaperID:**3049  
**Title:**Solving Integer Linear Programs with a Small Number of Global Variables and Constraints  
**Track:**Main track  
**Authors:**Pavel Dvořák, Eduard Eiben, Robert Ganian, Dušan Knop, Sebastian Ordyniak

**PaperID:**3061  
**Title:**Understanding and Exploiting Language Diversity  
**Track:**Main track  
**Authors:**Fausto Giunchiglia, Khuyagbaatar Batsuren, Gabor Bella

**PaperID:**3071  
**Title:**Semi-supervised Learning for Surface EMG-based Gesture Recognition  
**Track:**Main track  
**Authors:**Yu Du, Yongkang Wong, Wenguang Jin, Wentao Wei, Yu Hu, Mohan Kankanhalli, Weidong Geng

**PaperID:**3078  
**Title:**From Qualitative to Quantitative Dominance Pruning for Optimal Planning  
**Track:**Main track  
**Authors:**Alvaro Torralba

**PaperID:**3088  
**Title:**Theoretic Analysis and Extremely Easy Algorithms for Domain Adaptive Feature Learning  
**Track:**Main track  
**Authors:**Wenhao Jiang, Cheng Deng, Wei Liu, Feiping Nie, Fu Korris, Heng Huang

**PaperID:**3097  
**Title:**Generating Context-Free Grammars using Classical Planning  
**Track:**Main track  
**Authors:**Sergio Jiménez, Javier Segovia, Anders Jonsson

**PaperID:**3101  
**Title:**Object Detection Meets Knowledge Graphs  
**Track:**Main track  
**Authors:**Yuan Fang, Kingsley Kuan, Jie Lin, Cheston Tan, Vijay Chandrasekhar

**PaperID:**3102  
**Title:**On the Kernelization of Global Constraints  
**Track:**Main track  
**Authors:**Clément Carbonnel, Emmanuel Hebrard

**PaperID:**3111  
**Title:**Diversifying Personalized Recommendation with User-session Context  
**Track:**Main track  
**Authors:**Liang Hu, Longbing Cao, Guandong Xu, Jian Cao, Zhiping Gu, Shoujin Wang

**PaperID:**3115  
**Title:**Semantic Visualization for Short Texts with Word Embeddings  
**Track:**Main track  
**Authors:**Tuan M. V. Le, Hady W. Lauw

**PaperID:**3117  
**Title:**LMPP: A Large Margin Point Process Combining Reinforcement and Competition for Modeling Hashtag Popularity  
**Track:**Main track  
**Authors:**Bidisha Samanta, Abir De, Abhijnan Chakraborty, Niloy Ganguly

**PaperID:**3119  
**Title:**End-to-End Prediction of Buffer Overruns from Raw Source Code via Neural Memory Networks  
**Track:**Main track  
**Authors:**Min-Je Choi, Sehun Jeong, Hakjoo Oh, Jaegul Choo

**PaperID:**3123  
**Title:**Locality in Random SAT Instances  
**Track:**Main track  
**Authors:**Jesús Giráldez-Cru, Jordi Levy

**PaperID:**3127  
**Title:**Finding Prototypes of Answers for Improving Answer Sentence Selection  
**Track:**Main track  
**Authors:**wailok tam, yusuke miyao, namgi han, Juan Horñiacek

**PaperID:**3136  
**Title:**Mechanism Design for Strategic Project Scheduling  
**Track:**Main track  
**Authors:**Pradeep VARAKANTHAM, Na FU

**PaperID:**3137  
**Title:**Who to Invite Next? Predicting Invitees of Social Groups  
**Track:**Main track  
**Authors:**Yu Han, Jie Tang

**PaperID:**3144  
**Title:**SitNet: Discrete Similarity Transfer Network for Zero-shot Hashing  
**Track:**Main track  
**Authors:**Yuchen Guo, Guiguang Ding, Jungong Han, Yue Gao

**PaperID:**3157  
**Title:**Finding Robust Solutions to Stable Marriage  
**Track:**Main track  
**Authors:**Begum Genc, Mohamed Siala, Barry O'Sullivan, Gilles Simonin

**PaperID:**3161  
**Title:**Automatic Generation of Grounded Visual Questions  
**Track:**Main track  
**Authors:**Shijie Zhang, Lizhen Qu, Shaodi You, Zhenglu Yang, Jiawan Zhang

**PaperID:**3171  
**Title:**Accelerated Doubly Stochastic Gradient Algorithm for Large-scale Empirical Risk Minimization  
**Track:**Main track  
**Authors:**Zebang Shen, Hui Qian, Tongzhou Mu, Chao Zhang

**PaperID:**3174  
**Title:**Bounding the inefficiency of compromise  
**Track:**Main track  
**Authors:**Ioannis Caragiannis, Panagiotis Kanellopoulos, Alexandros Voudouris

**PaperID:**3175  
**Title:**Proposing a Highly Accurate Hybrid Component-Based Factorised Preference Model in Recommender Systems  
**Track:**Main track  
**Authors:**farhad zafari, R. Rahmani, I. Moser

**PaperID:**3182  
**Title:**Knowledge Transfer for Unobserved Entities: Graph Neural Network on a Knowledge Graph  
**Track:**Main track  
**Authors:**Takuo Hamaguchi, Hidekazu Oiwa, Masashi Shimbo, Yuji Matsumoto

**PaperID:**3183  
**Title:**Cost-Effective Active Learning from Diverse Labelers  
**Track:**Main track  
**Authors:**Sheng-Jun Huang, Zhi-Hua Zhou, Jia-Lue Chen, Xin Mu

**PaperID:**3192  
**Title:**Multi-instance multi-label active learning  
**Track:**Main track  
**Authors:**Sheng-Jun Huang, Nengneng Gao, Songcan Chen

**PaperID:**3193  
**Title:**Mining Convex Polygon Patterns with Formal Concept Analysis  
**Track:**Main track  
**Authors:**Aimene Belfodil, Sergei O. Kuznetsov, Céline Robardet, Mehdi Kaytoue

**PaperID:**3196  
**Title:**Demystifying Neural Style Transfer  
**Track:**Main track  
**Authors:**Yanghao Li, Naiyan Wang, Jiaying Liu, Xiaodi Hou

**PaperID:**3199  
**Title:**Deep Neural Networks for High Dimension, Low Sample Size Data  
**Track:**Main track  
**Authors:**Liu Bo, Ying WEI, Yu Zhang, Qiang Yang

**PaperID:**3200  
**Title:**Exploiting High-Order Information in Heterogeneous Multi-Task Feature Learning  
**Track:**Main track  
**Authors:**Yong Luo, Yonggang Wen, Dacheng Tao

**PaperID:**3205  
**Title:**A Novel Symbolic Approach to Verifying Epistemic Properties of Programs  
**Track:**Main track  
**Authors:**Nikos Gorogiannis, Franco Raimondi, Ioana Boureanu

**PaperID:**3211  
**Title:**Earth Mover Distance Pooling over Siamese LSTMs for Automatic Short Answer Grading  
**Track:**Main track  
**Authors:**Sachin Kumar, Soumen Chakrabarti, Shourya Roy

**PaperID:**3212  
**Title:**MRLR: Multi-level Representation Learning for Personalized Ranking in Recommendation  
**Track:**Main track  
**Authors:**Zhu Sun, Jie Yang, Jie Zhang, Alessandro Bozzon, Yu Chen, Chi Xu

**PaperID:**3213  
**Title:**Making Cross Products and Guarded Ontology Languages Compatible  
**Track:**Main track  
**Authors:**Pierre Bourhis, Michael Morak, Andreas Pieris

**PaperID:**3222  
**Title:**A Deep Neural Network for Chinese Zero Pronoun Resolution  
**Track:**Main track  
**Authors:**Qingyu Yin, Wei-Nan Zhang, Yu Zhang, Ting Liu

**PaperID:**3227  
**Title:**General Heterogeneous Transfer Distance Metric Learning via Knowledge Fragments Transfer  
**Track:**Main track  
**Authors:**Yong Luo, Yonggang Wen, Tongliang Liu, Dacheng Tao

**PaperID:**3228  
**Title:**COBRA: A Fast and Simple Method for Active Clustering with Pairwise Constraints  
**Track:**Main track  
**Authors:**Toon Van Craenendonck, Sebastijan Dumancic, Hendrik Blockeel

**PaperID:**3230  
**Title:**Supervised Learning to Hash for Software Functional Clone Detection by Exploiting Lexical and Syntactical Information in Source Codes  
**Track:**Main track  
**Authors:**Huihui Wei, Ming Li

**PaperID:**3233  
**Title:**Nonlinear Hybrid Planning with Deep Net Learned Transition Models and Mixed-Integer Linear Programming  
**Track:**Main track  
**Authors:**Buser Say, Ga Wu, Yu Qing Zhou, Scott Sanner

**PaperID:**3236  
**Title:**A Density-based Nonparametric Model for Online Event Discovery from the Social Media Data  
**Track:**Main track  
**Authors:**Jinjin Guo, Zhiguo Gong

**PaperID:**3239  
**Title:**Beyond Forks: Finding and Ranking Star Factorings for Decoupled Search  
**Track:**Main track  
**Authors:**Daniel Gnad, Valerie Poser, Joerg Hoffmann

**PaperID:**3243  
**Title:**A Group-Based Personalized Model for Image Privacy Classification and Labeling  
**Track:**Main track  
**Authors:**Haoti Zhong, Anna squicciarini, David Miller, Cornelia Caragea

**PaperID:**3245  
**Title:**Verifying Fault-tolerance in Parameterised Multi-Agent Systems  
**Track:**Main track  
**Authors:**Panagiotis Kouvaros, Alessio Lomuscio

**PaperID:**3251  
**Title:**Search and Learn: On Dead-End Detectors, the Traps they Set, and Trap Learning  
**Track:**Main track  
**Authors:**Marcel Steinmetz, Joerg Hoffmann

**PaperID:**3260  
**Title:**Efficient and Complete FD-solving for extended array constraints  
**Track:**Main track  
**Authors:**Quentin Plazar, Arnaud Gotlieb, Mathieu Acher, Sébastien Bardin

**PaperID:**3265  
**Title:** Unrestricted rebuttal, crash resistance and preferences in structured argumentation  
**Track:**Main track  
**Authors:**Jesse Heyninck, Christian Straßer

**PaperID:**3270  
**Title:**Clustering-Based Relational Unsupervised Representation Learning with an Explicit Distributed Representation  
**Track:**Main track  
**Authors:**Sebastijan Dumancic, Hendrik Blockeel

**PaperID:**3279  
**Title:**An Improved Decision-DNNF Compiler  
**Track:**Main track  
**Authors:**Pierre Marquis, Jean-Marie Lagniez

**PaperID:**3282  
**Title:**Effective Deep Memory Networks for Distant Supervised Relation Extraction  
**Track:**Main track  
**Authors:**Xiaocheng Feng, Bing Qin, Jiang Guo, Ting Liu, Yongjie Liu

**PaperID:**3283  
**Title:**A Feature-Enriched Neural Model for Joint Chinese Word Segmentation and Part-of-Speech Tagging  
**Track:**Main track  
**Authors:**Xinchi Chen, Xipeng Qiu, Xuanjing Huang

**PaperID:**3293  
**Title:**Synchronisation Games on Hypergraphs  
**Track:**Main track  
**Authors:**Sunil Simon, Dominik Wojtczak

**PaperID:**3301  
**Title:**Locally Linear Factorization Machines  
**Track:**Main track  
**Authors:**chenghao liu, Teng Zhang, Peilin Zhao, Jun Zhou, Jianling Sun

**PaperID:**3305  
**Title:**Coarse-to-Fine Lifted MAP Inference in Computer Vision  
**Track:**Main track  
**Authors:**Haroun Habeeb, Ankit Anand, Parag Singla, Mausam .

**PaperID:**3308  
**Title:**FolkPopularlityRank: Tag Recommendation for Enhancing Social Popularity using Text Tags in Content Sharing Services  
**Track:**Main track  
**Authors:**Toshihiko Yamasaki, Jiani Hu, Shumpei Sano, Kiyoharu Aizawa

**PaperID:**3309  
**Title:**On Querying Incomplete Information in Databases under Bag Semantics  
**Track:**Main track  
**Authors:**Paolo Guagliardo, Marco Console, Leonid Libkin

**PaperID:**3311  
**Title:**Name Nationality Classification with Recurrent Neural Networks  
**Track:**Main track  
**Authors:**Jinhyuk Lee, Hyunjae Kim, Miyoung Ko, Donghee Choi, Jaehoon Choi, Jaewoo Kang

**PaperID:**3323  
**Title:**Tag-Aware Personalized Recommendation Using a Hybrid Deep Model  
**Track:**Main track  
**Authors:**Zhenghua Xu, Thomas Lukasiewicz, Cheng Chen, Yishu Miao, Xiangwu Meng

**PaperID:**3333  
**Title:**Human-Centric Justification of Machine Learning Predictions  
**Track:**Main track  
**Authors:**Or Biran, Kathleen McKeown

**PaperID:**3334  
**Title:**Constraint Games revisited  
**Track:**Main track  
**Authors:**Anthony Palmieri, Arnaud Lallouet

**PaperID:**3336  
**Title:**Robust Survey Aggregation with Student-t Distribution and Sparse Representation  
**Track:**Main track  
**Authors:**Qingtao Tang, Tao Dai, Li Niu, Yisen Wang, Shu-Tao Xia, Jianfei Cai

**PaperID:**3338  
**Title:**JM-Net and Cluster-SVM for Aerial Scene Classification  
**Track:**Main track  
**Authors:**Xiaoqiang Lu, Yuan Yuan, Jie Fang

**PaperID:**3342  
**Title:**Self-weighted Multiview Clustering with Multiple Graphs  
**Track:**Main track  
**Authors:**Feiping Nie, Jing Li, Xuelong Li

**PaperID:**3347  
**Title:**Scalable Estimation of Dirichlet Process Mixture Models on Distributed Data  
**Track:**Main track  
**Authors:**Ruohui Wang, Dahua Lin

**PaperID:**3348  
**Title:**SWIM: A Simple Word Interaction Model for Implicit Discourse Relation Recognition  
**Track:**Main track  
**Authors:**Wenqiang Lei, Xuangcong Wang, Meichun Liu, Ilija Ilievski, Xiangnan He, Min-Yen Kan

**PaperID:**3355  
**Title:**Effective Representing Information Network by Variational Autoencoder  
**Track:**Main track  
**Authors:**Hang Li, Haozheng Wang, Zhenglu Yang, Haochen Liu

**PaperID:**3359  
**Title:**Student-t Process Regression with Student-t Likelihood  
**Track:**Main track  
**Authors:**Qingtao Tang, Li Niu, Yisen Wang, Tao Dai, Wangpeng An, Jianfei Cai, Shu-Tao Xia

**PaperID:**3365  
**Title:**Joint Capped Norms Minimization for Robust Matrix Recovery  
**Track:**Main track  
**Authors:**Feiping Nie, Heng Huang, Zhouyuan Huo

**PaperID:**3368  
**Title:**Handling Noise in Boolean Matrix Factorization  
**Track:**Main track  
**Authors:**Martin Trnečka, Radim Belohlavek

**PaperID:**3369  
**Title:**Solving Stochastic Boolean Satisfiability under Random-Exist Quantification  
**Track:**Main track  
**Authors:**Nian-Ze Lee, Yen-Shi Wang, Jie-Hong Jiang

**PaperID:**3373  
**Title:**Verification of Broadcasting Multi-Agent Systems against an Epistemic Strategy Logic  
**Track:**Main track  
**Authors:**Francesco Belardinelli, Alessio Lomuscio, Aniello Murano, Sasha Rubin

**PaperID:**3377  
**Title:**An Algorithm for Constructing and Solving Imperfect Recall Abstractions of Large Extensive-Form Games  
**Track:**Main track  
**Authors:**Jiri Cermak, Branislav Bošanský, Viliam Lisý

**PaperID:**3378  
**Title:**Characterising the Manipulability of Boolean Games  
**Track:**Main track  
**Authors:**Paul Harrenstein, Paolo Turrini, Michael Wooldridge

**PaperID:**3379  
**Title:**Incomplete Label Distribution Learning  
**Track:**Main track  
**Authors:**Miao Xu, Zhi-Hua Zhou

**PaperID:**3385  
**Title:**Directly Minimizing Normalized Cut for Large Scale Data  
**Track:**Main track  
**Authors:**Xiaojun Chen, Feiping Nie, Joshua Huang, Min Yang

**PaperID:**3386  
**Title:**Robust Advertisement Allocation  
**Track:**Main track  
**Authors:**Shaojie Tang

**PaperID:**3388  
**Title:**Social Pressure in Opinion Games  
**Track:**Main track  
**Authors:**Diodato Ferraioli, Carmine Ventre

**PaperID:**3395  
**Title:**Generalized Planning: Non-Deterministic Abstractions and Trajectory Constraints  
**Track:**Main track  
**Authors:**Blai Bonet, Giuseppe De Giacomo, Hector Geffner, Sasha Rubin

**PaperID:**3396  
**Title:**No Time to Observe: Adaptive Influence Maximization with Partial Feedback  
**Track:**Main track  
**Authors:**Jing Yuan, Shaojie Tang

**PaperID:**3397  
**Title:**A Monte Carlo Tree Search approach to Active Malware Analysis  
**Track:**Main track  
**Authors:**Riccardo Sartea, Alessandro Farinelli

**PaperID:**3400  
**Title:**An Admissible HTN Planning Heuristic  
**Track:**Main track  
**Authors:**Pascal Bercher, Gregor Behnke, Daniel Höller, Susanne Biundo

**PaperID:**3401  
**Title:**Single-Pass PCA of Large High-Dimensional Data  
**Track:**Main track  
**Authors:**Wenjian Yu, Yu Gu, Jian Li, Shenghua Liu, Yaohang Li

**PaperID:**3402  
**Title:**Computing Bayes-Nash Equilibria in Combinatorial Auctions with Continuous Actions  
**Track:**Main track  
**Authors:**Vitor Bosshard, Benedikt Bünz, Benjamin Lubin, Sven Seuken

**PaperID:**3404  
**Title:**Adaptive Group Sparse Multi-task Learning via Trace Lasso  
**Track:**Main track  
**Authors:**Sulin Liu, Sinno Jialin Pan

**PaperID:**3416  
**Title:**Socialized Word Embeddings  
**Track:**Main track  
**Authors:**Ziqian Zeng, Yichun Yin, Yangqiu Song, Ming Zhang

**PaperID:**3418  
**Title:**Relaxed Exists-Step Plans in Planning as SMT  
**Track:**Main track  
**Authors:**Joan Espasa Arxer, Miquel Bofill, Mateu Villaret

**PaperID:**3424  
**Title:**Conflict-driven ASP Solving with External Sources and Program Splits  
**Track:**Main track  
**Authors:**Christoph Redl

**PaperID:**3425  
**Title:**Nash Equilibria in Concurrent Games with Lexicographic Preferences  
**Track:**Main track  
**Authors:**Julian Gutierrez, Aniello Murano, Giuseppe Perelli, Sasha Rubin, Michael Wooldridge

**PaperID:**3431  
**Title:**Optimizing Ratio of Monotone Set Functions  
**Track:**Main track  
**Authors:**Chao Qian, Jing-Cheng Shi, Yang Yu, Ke Tang, Zhi-Hua Zhou

**PaperID:**3437  
**Title:**XOR-Sampling for Network Design with Correlated Stochastic Events  
**Track:**Main track  
**Authors:**Xiaojian Wu, Yexiang Xue, Bart Selman, Carla P. Gomes

**PaperID:**3439  
**Title:**A Causal Framework for Discovering and Removing Direct and Indirect Discrimination  
**Track:**Main track  
**Authors:**Lu Zhang, Yongkai Wu, Xintao Wu

**PaperID:**3440  
**Title:**Semi-supervised Learning over Heterogeneous Information Networks by Ensemble of Meta-graph Guided Random Walks  
**Track:**Main track  
**Authors:**He Jiang, Yangqiu Song, Chenguang Wang, Ming Zhang, Yizhou Sun

**PaperID:**3464  
**Title:**Proactive and Reactive Coordination of Non-dedicated Agent Teams Operating in Uncertain Environments  
**Track:**Main track  
**Authors:**pritee agrawal, Pradeep VARAKANTHAM

**PaperID:**3476  
**Title:**Learning a ground truth ranking using noisy approval votes  
**Track:**Main track  
**Authors:**Ioannis Caragiannis, Evi Micha

**PaperID:**3477  
**Title:**Efficient Label Contamination Attacks Against Black-Box Learning Models  
**Track:**Main track  
**Authors:**Mengchen Zhao, BO AN, Wei Gao, Teng Zhang

**PaperID:**3478  
**Title:**No Learner Left Behind: On the Complexity of Teaching Multiple Learners Simultaneously  
**Track:**Main track  
**Authors:**Xiaojin Zhu, Ji Liu, Manuel Lopes

**PaperID:**3486  
**Title:**Multiple Indefinite Kernel Learning for Feature Selection  
**Track:**Main track  
**Authors:**Hui Xue, Yu Song, Hai-Ming Xu

**PaperID:**3490  
**Title:**Dynamic Logic for Data-aware Systems: Decidability Results  
**Track:**Main track  
**Authors:**Francesco Belardinelli, Andreas Herzig

**PaperID:**3493  
**Title:**Logic Tensor Networks for Semantic Image Interpretation  
**Track:**Main track  
**Authors:**Ivan Donadello, Luciano Serafini, Artur d'Avila Garcez

**PaperID:**3497  
**Title:**Tactics of Adversarial Attacks on Deep Reinforcement Learning Agents  
**Track:**Main track  
**Authors:**LIN YEN-CHEN, Zhang-Wei Hong, Yuan-Hong Liao, Meng-Li Shih, Ming-Yu Liu, Min Sun

**PaperID:**3504  
**Title:**Symbolic LTLf Synthesis  
**Track:**Main track  
**Authors:**Shufang Zhu, Lucas M. Tabajara, Jianwen Li, Geguang Pu, Moshe Y. Vardi

**PaperID:**3514  
**Title:**Object Allocation via Swaps along a Social Network  
**Track:**Main track  
**Authors:**Anaëlle Wilczynski, Laurent Gourvès, Julien LESCA

**PaperID:**3530  
**Title:**Logistic Markov Decision Processes  
**Track:**Main track  
**Authors:**Martin Mladenov, Craig Boutilier, Dale Schuurmans, Ofer Meshi, Gal Elidan, Tyler Lu

**PaperID:**3532  
**Title:** Hierarchical task network planning with task insertion and state constraints  
**Track:**Main track  
**Authors:**Zhanhao Xiao, Andreas Herzig, Laurent Perrussel, Hai Wan, Xiaoheng Su

**PaperID:**3544  
**Title:**Symbolic Priors for RNN-based Semantic Parsing  
**Track:**Main track  
**Authors:**Chunyang Xiao, Marc Dymetman, Claire Gardent

**PaperID:**3549  
**Title:**Ontology-Mediated Query Answering for Key-Value Stores  
**Track:**Main track  
**Authors:**Meghyn Bienvenu, Pierre Bourhis, Marie-Laure MUGNIER, Sophie Tison, Federico Ulliana

**PaperID:**3551  
**Title:**Classical Generalized Probabilistic Satisfiability  
**Track:**Main track  
**Authors:**Filipe Casal, Andreia Mordido, Carlos Caleiro

**PaperID:**3555  
**Title:**Unified Representation and Lifted Sampling for Generative Models of Social Networks  
**Track:**Main track  
**Authors:**Pablo Robles Granda, Sebastian Moreno, Jennifer Neville

**PaperID:**3557  
**Title:**Learning-Based Abstractions for Nonlinear Constraint Solving  
**Track:**Main track  
**Authors:**Sumanth Dathathri, Nikos Arechiga, Sicun Gao, Richard M. Murray

**PaperID:**3560  
**Title:**Solving Probability Problems in Natural Language  
**Track:**Main track  
**Authors:**Anton Dries, Angelika Kimmig, Jesse Davis, Vaishak Belle, Luc de Raedt

**PaperID:**3561  
**Title:**Heuristic Online Goal Recognition in Continuous Domains  
**Track:**Main track  
**Authors:**Mor Vered, Gal A. Kaminka

**PaperID:**3581  
**Title:**Posted Pricing sans Discrimination  
**Track:**Main track  
**Authors:**Shreyas Sekar

**PaperID:**3592  
**Title:**Disambiguating Energy Disaggregation: A Collective Probabilistic Approach  
**Track:**Main track  
**Authors:**Sabina Tomkins, Jay Pujara, Lise Getoor

**PaperID:**3596  
**Title:**SEVEN: Deep Semi-supervised Verification Networks  
**Track:**Main track  
**Authors:**Vahid Noroozi, Lei Zheng, Sara Bahaadini, Sihong Xie, Philip Yu

**PaperID:**3604  
**Title:**Temporal Sequences of Qualitative Information: Reasoning about the Topology of Constant-Size Moving Regions  
**Track:**Main track  
**Authors:**Quentin Cohen-Solal, Maroua Bouzid, Alexandre Niveau

**PaperID:**3607  
**Title:**Answering Conjunctive Regular Path Queries over Guarded Existential Rules  
**Track:**Main track  
**Authors:**Jean-François Baget, Meghyn Bienvenu, Marie-Laure MUGNIER, Michael Thomazo

**PaperID:**3618  
**Title:**Enhancing the unified features for bug localization by exploiting the sequential nature of natural and programming languages.  
**Track:**Main track  
**Authors:**Xuan Huo, Ming Li

**PaperID:**3620  
**Title:**On the Computational Complexity of Gossip Protocols  
**Track:**Main track  
**Authors:**Krzysztof Apt, Eryk Kopczyński, Dominik Wojtczak

**PaperID:**3627  
**Title:**An Abstraction-Refinement Methodology for Reasoning about Network Games  
**Track:**Main track  
**Authors:**Guy Avni, Shibashis Guha, Orna Kupferman

**PaperID:**3636  
**Title:**Predicting Alzheimer's Disease Cognitive Assessment via Robust Low-Rank Structured Sparse Model   
**Track:**Main track  
**Authors:**Jie Xu, Cheng Deng, Xinbo Gao, Dinggang Shen, Heng Huang

**PaperID:**3638  
**Title:**Exemplar-Centered Supervised Shallow Parametric Data Embedding  
**Track:**Main track  
**Authors:**Martin Renqiang Min, Hongyu Guo, Dongjin Song

**PaperID:**3640  
**Title:**On the Complexity of Learning from Label Proportions  
**Track:**Main track  
**Authors:**Lev Reyzin, Benjamin Fish

**PaperID:**3642  
**Title:**Learning Conversational Systems that Interleave Task and Non-Task Content  
**Track:**Main track  
**Authors:**Zhou Yu, Alexander Rudnicky, Alan Black

**PaperID:**3644  
**Title:**Temporal Grounding Graphs for Language Understanding with Accrued Visual-Linguistic Context  
**Track:**Main track  
**Authors:**Rohan Paul, Andrei Barbu, Sue Felshin, Boris Katz, Nicholas Roy

**PaperID:**3645  
**Title:**Maximizing Multi-Class Margins for Supervised and Semi-Supervised Support Vector Machine  
**Track:**Main track  
**Authors:**Jie Xu, Cheng Deng, Zhouyuan Huo, Xianglong Liu, Feiping Nie, Heng Huang

**PaperID:**3647  
**Title:**Purely Declarative Action Descriptions are Overrated: Classical Planning with Simulators  
**Track:**Main track  
**Authors:**Guillem Francès, Miquel Ramírez, Nir Lipovetzky, Hector Geffner

**PaperID:**3660  
**Title:**Cognitive-Inspired Conversational-Strategy Reasoner for Socially-Aware Agents  
**Track:**Main track  
**Authors:**Oscar J. Romero, Ran Zhao, Justine Cassell

**PaperID:**3661  
**Title:**Detecting Chase (Non)Termination for Existential Rules with Disjunctions  
**Track:**Main track  
**Authors:**David Carral, Irina Dragoste, Markus Krötzsch

**PaperID:**3667  
**Title:**The Mixing of Markov Chains on Linear Extensions in Practice  
**Track:**Main track  
**Authors:**Topi Talvitie, Teppo Niinimäki, Mikko Koivisto

**PaperID:**3671  
**Title:**Parsing Natural Language Conversations using Contextual Cues  
**Track:**Main track  
**Authors:**Shashank Srivastava, Amos Azaria, Tom Mitchell

**PaperID:**3673  
**Title:**Cardinality Encodings for Graph Optimization Problems  
**Track:**Main track  
**Authors:**Alexey Ignatiev, Antonio Morgado, Joao Marques-Silva

**PaperID:**3675  
**Title:**Convergence and Quality of Iterative Voting Under Non-Scoring Rules  
**Track:**Main track  
**Authors:**Aaron Koolyk, Tyrone Strangway, Omer Lev, Jeffrey S. Rosenschein

**PaperID:**3676  
**Title:**Compact MDDs for Pseudo-Boolean Constraints with At-Most-One Relations in Resource-Constrained Scheduling Problems  
**Track:**Main track  
**Authors:**Jordi Coll, Miquel Bofill, Josep Suy, Mateu Villaret

**PaperID:**3679  
**Title:**Deep Context: A Neural Language Model for Large-scale Networked Documents  
**Track:**Main track  
**Authors:**Hao Wu, Kristina Lerman

**PaperID:**3680  
**Title:**Logic on MARS: Ontologies for Generalised Property Graphs  
**Track:**Main track  
**Authors:**Maximilian Marx, Markus Krötzsch, Veronika Thost

**PaperID:**3684  
**Title:**Scaling Active Search using Linear Similarity Functions  
**Track:**Main track  
**Authors:**Sibi Venkatesan, James Miller, Jeff Schneider, Artur Dubrawski

**PaperID:**3687  
**Title:**Coalitional Manipulation for l-Bloc Shortlisting: Not All About Ties  
**Track:**Main track  
**Authors:**Robert Bredereck, Andrzej Kaczmarczyk, Rolf Niedermeier

**PaperID:**3690  
**Title:**Deterministic, Strategyproof, and Fair Cake Cutting  
**Track:**Main track  
**Authors:**Vijay Menon, Kate Larson

**PaperID:**3692  
**Title:**Predicting the Quality of Short Narratives from Social Media  
**Track:**Main track  
**Authors:**Tong Wang, Ping Chen, Boyang Li

**PaperID:**3693  
**Title:**Fast sparse Gaussian Markov Random Fields Learning Based on Cholesky Factorization  
**Track:**Main track  
**Authors:**Ivan Stojkovic, Vladisav Jelisavcic, Veljko Milutinovic, Zoran Obradovic

**PaperID:**3702  
**Title:**Right for the Right Reasons: Training Differentiable Models by Constraining their Explanations  
**Track:**Main track  
**Authors:**Andrew Ross, Michael Hughes, Finale Doshi-Velez

**PaperID:**3706  
**Title:**A Model for Accountable Ordinal Sorting  
**Track:**Main track  
**Authors:**Khaled Belahcene, Christophe Labreuche, Nicolas Maudet, Vincent Mousseau, Wassila Ouerdane

**PaperID:**3712  
**Title:**Improving classification accuracy of deep neural networks for spiking neuromorphic chips  
**Track:**Main track  
**Authors:**Antonio Jose Jimeno Yepes, Jianbin Tang, Benjamin Mashford

**PaperID:**3720  
**Title:**See without looking: joint visualization of sensitive multi-site datasets  
**Track:**Main track  
**Authors:**Debbrata Kumar Saha, Vince Calhoun, Sandeep Panta, Sergey Plis

**PaperID:**3739  
**Title:**The Off-Switch Game  
**Track:**Main track  
**Authors:**Dylan Hadfield-Menell, Anca Dragan, Pieter Abbeel, Stuart Russell

**PaperID:**3741  
**Title:**Tensor Based Knowledge Transfer Across Skill Categories for Robot Control  
**Track:**Main track  
**Authors:**Chenyang Zhao, Timothy Hospedales, Freek Stulp, Olivier Sigaud

**PaperID:**3743  
**Title:**Inverse Covariance Estimation with Structured Groups  
**Track:**Main track  
**Authors:**Shaozhe Tao, Yifan Sun, Daniel Boley

**PaperID:**3753  
**Title:**Transfer Learning in Multi-Armed Bandits: A Causal Approach  
**Track:**Main track  
**Authors:**Junzhe Zhang, Elias Bareinboim

**PaperID:**3765  
**Title:**Thwarting Vote Buying Through Decoy Ballots  
**Track:**Main track  
**Authors:**David Parkes, Paul Tylkin, Lirong Xia

**PaperID:**3768  
**Title:**Deep Ordinal Regression based on Data Relationship for Small Datasets  
**Track:**Main track  
**Authors:**Yanzhu Liu, Adams Wai Kin Kong, Chi Keong Goh

**PaperID:**3770  
**Title:**Modeling Homophily Couplings for Wrapper-based Noise-resilient Outlier Detection  
**Track:**Main track  
**Authors:**Guansong Pang, Longbing Cao, Ling Chen, Huan Liu

**PaperID:**3771  
**Title:**Embedding-based Representation of Categorical Data with Hierarchical Value Couplings  
**Track:**Main track  
**Authors:**Songlei Jian, Longbing Cao, Guansong Pang, Kai Lu, Hang Gao

**PaperID:**3773  
**Title:**Lazy-Grounding for Answer-Set Programs with External Source Access  
**Track:**Main track  
**Authors:**Thomas Eiter, Tobias Kaminski, Antonius Weinzierl

**PaperID:**3777  
**Title:**Completely Heterogeneous Transfer Learning with Attention - What And What Not To Transfer  
**Track:**Main track  
**Authors:**Seungwhan Moon, Jaime Carbonell

**PaperID:**3783  
**Title:**A Goal Reasoning Agent for Controlling UAVs in Beyond-Visual-Range Air Combat  
**Track:**Main track  
**Authors:**Michael Floyd, David Aha, Justin Karneeb, Philip Moore

**PaperID:**3790  
**Title:**Landmarks for Numeric Planning Problems  
**Track:**Main track  
**Authors:**Enrico Scala, Patrik Haslum, Daniele Magazzeni, Sylvie Thiebaux

**PaperID:**3791  
**Title:**Query Answering in Ontologies Under Preference Rankings  
**Track:**Main track  
**Authors:**İsmail İlkan Ceylan, Thomas Lukasiewicz, Rafael Penaloza, Oana Tifrea-Marciuska

**PaperID:**3792  
**Title:**How a General-Purpose Commonsense Ontology can Improve Performance of Learning-Based Image Retrieval  
**Track:**Main track  
**Authors:**Rodrigo Toro Icarte, Alvaro Soto, Jorge Baier, Cristian Ruz

**PaperID:**3797  
**Title:**Learning sparse representations in reinforcement learning with sparse coding  
**Track:**Main track  
**Authors:**Lei Le, Raksha Kumaraswamy, Martha White

**PaperID:**3802  
**Title:**Active Learning for Black-Box Semantic Role Labeling with Neural Factors  
**Track:**Main track  
**Authors:**Chenguang Wang, Yunyao Li, Laura Chiticariu

**PaperID:**3812  
**Title:**SPMC: Socially-Aware Personalized Markov Chains for Sparse Sequential Recommendation  
**Track:**Main track  
**Authors:**Chenwei Cai, Ruining He, Julian McAuley

**PaperID:**3821  
**Title:**Relatedness-based Multi-Entity Summarization  
**Track:**Main track  
**Authors:**Kalpa Gunaratna, Krishnaprasad Thirunarayan, Amit Sheth, Amir Yazdavar, Gong Cheng

**PaperID:**3822  
**Title:**Learning with Previously Unseen Features  
**Track:**Main track  
**Authors:**Yuan Shi, Craig Knoblock

**PaperID:**3824  
**Title:**Sample Efficient Policy Search for Optimal Stopping Domains  
**Track:**Main track  
**Authors:**Karan Goel, Christoph Dann, Emma Brunskill

**PaperID:**3826  
**Title:**Aggressive, Tense or Shy? Identifying Personality Traits from Crowd Videos  
**Track:**Main track  
**Authors:**Aniket Bera, Dinesh Manocha, Tanmay Randhavane

**PaperID:**3831  
**Title:**Learning to Read Irregular Text with Attention Mechanism  
**Track:**Main track  
**Authors:**Xiao Yang, C. Lee Giles, Dafang He, Zihan Zhou, Daniel Kifer

**PaperID:**3849  
**Title:**Faster Conflict Generation for Dynamic Controllability  
**Track:**Main track  
**Authors:**Nikhil Bhargava, Tiago Vaquero, Brian Williams

**PaperID:**3850  
**Title:**Temporal Planning for Compilation of Quantum Approximate Optimization Circuits  
**Track:**Main track  
**Authors:**Davide Venturelli, Minh Do, Eleanor Rieffel, Jeremy Frank

**PaperID:**3857  
**Title:**Core Stability in Hedonic Games among Friends and Enemies: Impact of Neutrals  
**Track:**Main track  
**Authors:**Kazunori Ohta, Nathanaël Barrot, Anisse Ismaili, Yuko Sakurai, Makoto Yokoo

**PaperID:**3862  
**Title:**Compressed Nonparametric Language Modelling  
**Track:**Main track  
**Authors:**Ehsan Shareghi, Gholamreza Haffari, Trevor Cohn

**PaperID:**3865  
**Title:**Manipulating Opinion Diffusion in Social Networks  
**Track:**Main track  
**Authors:**Robert Bredereck, Edith Elkind

**PaperID:**3879  
**Title:**Correlational Dueling Bandits with Application to Clinical Treatment in Large Decision Space  
**Track:**Main track  
**Authors:**Yanan Sui, Joel Burdick

**PaperID:**3880  
**Title:**Interactive Attention Networks for Aspect-Level Sentiment Classification  
**Track:**Main track  
**Authors:**Dehong Ma, Sujian Li, Xiaodong Zhang, Houfeng Wang

**PaperID:**3883  
**Title:**Numeric Planning via Abstraction and Policy Guided Search  
**Track:**Main track  
**Authors:**León Illanes, Sheila McIlraith

**PaperID:**3884  
**Title:**DeepAM: Migrate APIs with Multi-modal Sequence to Sequence Learning  
**Track:**Main track  
**Authors:**Xiaodong Gu, Hongyu Zhang, Dongmei Zhang, Sunghun Kim

**PaperID:**3898  
**Title:**Exploration of Tree-based Hierarchical Softmax for Recurrent Language Models  
**Track:**Main track  
**Authors:**nan jiang, Wenge Rong, Min Gao, Yikang Shen, Zhang Xiong

**PaperID:**3903  
**Title:**Temporalising Separation Logic for Planning with Search Control Knowledge  
**Track:**Main track  
**Authors:**Xu Lu, Cong Tian, Zhenhua Duan

**PaperID:**3911  
**Title:**Efficient Inference for Untied MLNs  
**Track:**Main track  
**Authors:**Somdeb Sarkhel, Deepak Venugopal, Nicholas Ruozzi, Vibhav Gogate

**PaperID:**3918  
**Title:**Beyond the Nystr\\\"{o}m approximation: Speeding up spectral clustering using uniform sampling and weighted kernel k-means  
**Track:**Main track  
**Authors:**Mahesh Mohan, Claire Monteleoni

**PaperID:**3924  
**Title:**Score Aggregation  
**Track:**Main track  
**Authors:**Mingyu Xiao, Yuqing Wang

**PaperID:**3929  
**Title:**Interactive Narrative Personalization with Deep Reinforcement Learning  
**Track:**Main track  
**Authors:**Pengcheng Wang, Jonathan Rowe, Bradford Mott, James Lester, Wookhee Min

**PaperID:**3931  
**Title:**Learning Co-Substructures by Kernel Dependence Maximization  
**Track:**Main track  
**Authors:**Sho Yokoi, Daichi Mochihashi, Ryo Takahashi, Naoaki Okazaki, Kentaro Inui

**PaperID:**3933  
**Title:**Random Shifting for CNN: A solution to improve information loss in down-sampling layers  
**Track:**Main track  
**Authors:**Gangming Zhao, Jingdong Wang, Zhaoxiang Zhang

**PaperID:**3934  
**Title:**CHARDA: Causal Hybrid Automata Recovery via Dynamic Analysis  
**Track:**Main track  
**Authors:**Adam Summerville, Joseph Osborn, Michael Mateas

**PaperID:**3935  
**Title:**Distributed Accelerated Proximal Coordinate Gradient Methods  
**Track:**Main track  
**Authors:**Yong Ren, Jun Zhu

**PaperID:**3941  
**Title:**The Hard Problems Are Almost Everywhere For Random CNF-XOR Formulas  
**Track:**Main track  
**Authors:**Jeffrey M. Dudek, Kuldeep S. Meel, Moshe Y. Vardi

**PaperID:**3955  
**Title:**Recommendation vs Sentiment Analysis: A Text-Driven Latent Factor Model for Rating Prediction with Cold-Start Awareness  
**Track:**Main track  
**Authors:**Kaisong Song, Wei Gao, Shi Feng, Daling Wang, Kam-Fai Wong, Chengqi Zhang

**PaperID:**3956  
**Title:**Dynamic Multi-Task Learning with Convolutional Neural Network  
**Track:**Main track  
**Authors:**Zhengyan Ma, Yuchun Fang, Zhaoxiang Zhang, Xuyao Zhang, Xiang Bai

**PaperID:**3958  
**Title:**Softpressure: A Schedule-Driven Backpressure Algorithm for Coping with Network Congestion  
**Track:**Main track  
**Authors:**Hsu-Chieh Hu, Stephen F. Smith

**PaperID:**3962  
**Title:**Open Category Classification by Adversarial Sample Generation  
**Track:**Main track  
**Authors:**Wei-Yang Qu, Yang Yu, Nan Li, Zimin Guo

**PaperID:**3963  
**Title:**Object Recognition with and without Objects  
**Track:**Main track  
**Authors:**Zhuotun Zhu, Lingxi Xie, Alan Yuille

**PaperID:**3966  
**Title:**Learning from Demonstrations with High-Level Side Information  
**Track:**Main track  
**Authors:**Min Wen, Ivan Papusha, Ufuk Topcu

**PaperID:**3967  
**Title:**Exploring Personalized Neural Conversational Models  
**Track:**Main track  
**Authors:**Satwik Kottur, Vitor Carvalho, Xiaoyu Wang

**PaperID:**4013  
**Title:**Efficiency Through Procrastination: Approximately Optimal Algorithm Configuration with Runtime Guarantees  
**Track:**Main track  
**Authors:**Kevin Leyton-Brown, Robert Kleinberg, Brendan Lucier

**PaperID:**4014  
**Title:**Regional Concept Drift Detection and Density Synchronized Drift Adaptation  
**Track:**Main track  
**Authors:**Anjin Liu, YIliao Song, Guangquan Zhang, Jie Lu

**PaperID:**4018  
**Title:**Unified Single-Image 3D Scene Parsing Using Geometric Commonsense  
**Track:**Main track  
**Authors:**Chengcheng Yu, Xiaobai Liu, Song-Chun Zhu

**PaperID:**4019  
**Title:**Sequential Prediction of Social Media Popularity with Deep Temporal Context Networks  
**Track:**Main track  
**Authors:**Bo Wu, Wen-Huang Cheng, Yongdong Zhang, Qiushi Huang, Jintao Li, Tao Mei

**PaperID:**4040  
**Title:**Optimal Feature Selection for Decision Robustness in Bayesian Networks  
**Track:**Main track  
**Authors:**YooJung Choi, Adnan Darwiche, Guy Van den Broeck

**PaperID:**4054  
**Title:**Lexical Sememe Prediction via Word Embeddings and Matrix Factorization  
**Track:**Main track  
**Authors:**Xingchi Yuan, Ruobing Xie, Zhiyuan Liu, Maosong Sun

**PaperID:**4081  
**Title:**A Reasoning System for a First-Order Logic of Limited Belief  
**Track:**Main track  
**Authors:**Christoph Schwering

**PaperID:**4084  
**Title:**An Attention-based Regression Model for Grounding Textual Phrases in Images  
**Track:**Main track  
**Authors:**Ko Endo, Masaki Aono, Eric Nichols, Kotarou Funakoshi

**PaperID:**4107  
**Title:**Bounded Timed Propositional Temporal Logic with Past Captures Timeline-based Planning with Bounded Constraints  
**Track:**Main track  
**Authors:**Nicola Gigante, Dario Della Monica, Angelo Montanari, Pietro Sala, Guido Sciavicco

**PaperID:**4108  
**Title:**Efficient Weighted Model Integration via SMT-Based Predicate Abstraction  
**Track:**Main track  
**Authors:**Paolo Morettin, Andrea Passerini, Roberto Sebastiani

**PaperID:**4109  
**Title:**Mapping Repair in Ontology-based Data Access Evolving Systems  
**Track:**Main track  
**Authors:**Domenico Lembo, Riccardo Rosati, Domenico Fabio Savo, Valerio Santarelli, Evgenij Thorstensen

**PaperID:**4125  
**Title:**Most Probable Explanations for Probabilistic Database Queries  
**Track:**Main track  
**Authors:**İsmail İlkan Ceylan, Stefan Borgwardt, Thomas Lukasiewicz

**PaperID:**4132  
**Title:**On Subset Selection with General Cost Constraints  
**Track:**Main track  
**Authors:**Chao Qian, Jing-Cheng Shi, Yang Yu, Ke Tang

**PaperID:**4136  
**Title:**Bridging the Gap between Observation and Decision Making: Goal Recognition and Flexible Resource Allocation in Dynamic Network Interdiction  
**Track:**Main track  
**Authors:**Kai Xu, Kaiming Xiao, Quanjun Yin, Yabing Zha, Cheng Zhu

**PaperID:**4141  
**Title:**Inferring non-stated event locations from context using distributional similarities  
**Track:**Main track  
**Authors:**Jin-Woo Chung, Wonsuk Yang, Jinseon You, Jong Park

**PaperID:**4148  
**Title:**Process Plan Controllers for Non-Deterministic Manufacturing Systems  
**Track:**Main track  
**Authors:**Paolo Felli, Lavindra de Silva, Brian Logan, Svetan Ratchev

**PaperID:**4152  
**Title:**Game Engine Learning from Video  
**Track:**Main track  
**Authors:**Matthew Guzdial, Boyang Li, Mark Riedl

**PaperID:**4163  
**Title:**Constrained Bayesian Reinforcement Learning via Approximate Linear Programming  
**Track:**Main track  
**Authors:**Jongmin Lee, Youngsoo Jang, Pascal Poupart, Kee-Eung Kim

**PaperID:**4164  
**Title:**Determining Reasons in Comments  
**Track:**Main track  
**Authors:**Isaac Persing, Vincent Ng

**PaperID:**4185  
**Title:**General Reinforcement Learning Algorithms: Survey and Experiments  
**Track:**Main track  
**Authors:**John Aslanides, Jan Leike, Marcus Hutter

**PaperID:**4188  
**Title:**Count-Based Exploration in Feature Space for Reinforcement Learning  
**Track:**Main track  
**Authors:**Jarryd Martin, Suraj Narayanan S., Tom Everitt, Marcus Hutter

**PaperID:**4190  
**Title:**Personnel Scheduling as Satisfiability Modulo Theories  
**Track:**Main track  
**Authors:**Christoph Erkinger, Nysret Musliu

**PaperID:**1923  
**Title:**When will negotiation agents be able to represent us? The challenges and opportunities for autonomous negotiators  
**Track:**AI and autonomy track  
**Authors:**Tim Baarslag, Michael Kaisers, Enrico Gerding, Catholijn Jonker, Jonathan Gratch

**PaperID:**2255  
**Title:**Context-Based Reasoning on Privacy in Internet of Things  
**Track:**AI and autonomy track  
**Authors:**Nadin Kokciyan, Pinar Yolum

**PaperID:**2518  
**Title:**Online Decision-Making for Scalable Autonomous Systems  
**Track:**AI and autonomy track  
**Authors:**Kyle Wray, Stefan Witwicki, Shlomo Zilberstein

**PaperID:**2932  
**Title:**Reinforcement learning with a corrupted reward channel  
**Track:**AI and autonomy track  
**Authors:**Tom Everitt, Victoria Krakovna, Laurent Orseau, Shane Legg

**PaperID:**3130  
**Title:**Achieving Coordination in Multi-Agent Systems by Stable Local Conventions under Community Networks  
**Track:**AI and autonomy track  
**Authors:**Shuyue Hu, Ho-fung Leung

**PaperID:**3510  
**Title:**Privacy and Autonomous Systems  
**Track:**AI and autonomy track  
**Authors:**Jose Such

**PaperID:**3518  
**Title:**Safety, Interpretability and Compliance for Autonomous Vehicles with Bayesian Deep Learning  
**Track:**AI and autonomy track  
**Authors:**Rowan McAllister, Yarin Gal, Alex Kendall, Mark van der Wilk, Amar Shah, Roberto Cipolla, Adrian Weller

**PaperID:**3841  
**Title:**On Automating the Doctrine of Double Effect  
**Track:**AI and autonomy track  
**Authors:**Naveen Sundar Govindarajulu, Selmer Bringsjord

**PaperID:**3889  
**Title:**Algorithmic Bias in Autonomous Systems  
**Track:**AI and autonomy track  
**Authors:**David Danks, Alex John London

**PaperID:**4197  
**Title:**Responsible Autonomy  
**Track:**AI and autonomy track  
**Authors:**Virginia Dignum

**PaperID:**4204  
**Title:**Should Robots be Obedient?  
**Track:**AI and autonomy track  
**Authors:**Smitha Milli, Dylan Hadfield-Menell, Anca Dragan, Stuart Russell

**PaperID:**3232  
**Title:**The minds of many: opponent modeling in a stochastic game  
**Track:**Main track  
**Authors:**Friedrich Burkhard von der Osten, Michael Kirley, Tim Miller