626, TITLE:	Predicting the Visual Focus of Attention in Multi-Person Discussion Videos
https://www.ijcai.org/proceedings/2019/626
AUTHORS:	Chongyang Bai, Srijan Kumar, Jure Leskovec, Miriam Metzger, Jay F. Nunamaker, V. S. Subrahmanian
HIGHLIGHT:	Here we propose ICAF (Iterative Collective Attention Focus), a collective classification model to jointly learn the visual focus of attention of all people.

627, TITLE:	A Quantum-inspired Classical Algorithm for Separable Non-negative Matrix Factorization
https://www.ijcai.org/proceedings/2019/627
AUTHORS:	Zhihuai Chen, Yinan Li, Xiaoming Sun, Pei Yuan, Jialin Zhang
HIGHLIGHT:	In this paper, inspired by recent development on dequantizing techniques, we propose a new classical algorithm for separable NMF problem.

628, TITLE:	MLRDA: A Multi-Task Semi-Supervised Learning Framework for Drug-Drug Interaction Prediction
https://www.ijcai.org/proceedings/2019/628
AUTHORS:	Xu Chu, Yang Lin, Yasha Wang, Leye Wang, Jiangtao Wang, Jingyue Gao
HIGHLIGHT:	In this paper, we propose a multi-task semi-supervised learning framework MLRDA for DDI prediction.

629, TITLE:	Combining ADMM and the Augmented Lagrangian Method for Efficiently Handling Many Constraints
https://www.ijcai.org/proceedings/2019/629
AUTHORS:	Joachim Giesen, Soeren Laue
HIGHLIGHT:	Here, we address the problem of solving convex optimization problems with many convex constraints.

630, TITLE:	Hierarchical Graph Convolutional Networks for Semi-supervised Node Classification
https://www.ijcai.org/proceedings/2019/630
AUTHORS:	Fenyu Hu, Yanqiao Zhu, Shu Wu, Liang Wang, Tieniu Tan
HIGHLIGHT:	In order to increase the receptive field, we propose a novel deep Hierarchical Graph Convolutional Network (H-GCN) for semi-supervised node classification.

631, TITLE:	Playing Card-Based RTS Games with Deep Reinforcement Learning
https://www.ijcai.org/proceedings/2019/631
AUTHORS:	Tianyu Liu, Zijie Zheng, Hongchang Li, Kaigui Bian, Lingyang Song
HIGHLIGHT:	We present a deep model SEAT (selection-attention) to play card-based RTS games.

632, TITLE:	FSM: A Fast Similarity Measurement for Gene Regulatory Networks via Genes' Influence Power
https://www.ijcai.org/proceedings/2019/632
AUTHORS:	Zhongzhou Liu, Wenbin Hu
HIGHLIGHT:	In this paper, a fast similarity measurement method called FSM for GRNs is proposed.

633, TITLE:	Pseudo Supervised Matrix Factorization in Discriminative Subspace
https://www.ijcai.org/proceedings/2019/633
AUTHORS:	Jiaqi Ma, Yipeng Zhang, Lefei Zhang, Bo Du, Dapeng Tao
HIGHLIGHT:	In this paper, a novel unsupervised matrix factorization method, Pseudo Supervised Matrix Factorization (PSMF), is proposed for data clustering.

634, TITLE:	Representation Learning-Assisted Click-Through Rate Prediction
https://www.ijcai.org/proceedings/2019/634
AUTHORS:	Wentao Ouyang, Xiuwu Zhang, Shukui Ren, Chao Qi, Zhaojie Liu, Yanlong Du
HIGHLIGHT:	In this paper, we propose DeepMCP, which models other types of relationships in order to learn more informative and statistically reliable feature representations, and in consequence to improve the performance of CTR prediction.

635, TITLE:	Dynamic Electronic Toll Collection via Multi-Agent Deep Reinforcement Learning with Edge-Based Graph Convolutional Networks
https://www.ijcai.org/proceedings/2019/635
AUTHORS:	Wei Qiu, Haipeng Chen, Bo An
HIGHLIGHT:	To this end, we propose a novel multi-agent reinforcement learning (RL) approach for DETC.

636, TITLE:	FireCast: Leveraging Deep Learning to Predict Wildfire Spread
https://www.ijcai.org/proceedings/2019/636
AUTHORS:	David Radke, Anna Hessler, Dan Ellsworth

HIGHLIGHT: We present and evaluate a novel system, FireCast.

637, TITLE: Faster Distributed Deep Net Training: Computation and Communication Decoupled Stochastic Gradient Descent

https://www.ijcai.org/proceedings/2019/637

AUTHORS: Shuheng Shen, Linli Xu, Jingchang Liu, Xianfeng Liang, Yifei Cheng

HIGHLIGHT: In this paper, we propose a computation and communication decoupled stochastic gradient descent (CoCoD-SGD) algorithm to run computation and communication in parallel to reduce the communication cost.

638, TITLE: Randomized Adversarial Imitation Learning for Autonomous Driving

https://www.ijcai.org/proceedings/2019/638

AUTHORS: MyungJae Shin, Joongheon Kim

HIGHLIGHT: This paper proposes a randomized adversarial imitation learning (RAIL) method that imitates the coordination of autonomous vehicle equipped with advanced sensors.

639, TITLE: Scaling Fine-grained Modularity Clustering for Massive Graphs

https://www.ijcai.org/proceedings/2019/639

AUTHORS: Hiroaki Shiokawa, Toshiyuki Amagasa, Hiroyuki Kitagawa

HIGHLIGHT: This paper proposes gScarf, which outputs fine-grained clusters within a short running time.

640, TITLE: Node Embedding over Temporal Graphs

https://www.ijcai.org/proceedings/2019/640

AUTHORS: Uriel Singer, Ido Guy, Kira Radinsky

HIGHLIGHT: In this work, we present a method for node embedding in temporal graphs.

641, TITLE: Medical Concept Embedding with Multiple Ontological Representations

https://www.ijcai.org/proceedings/2019/641

AUTHORS: Lihong Song, Chin Wang Cheong, Kejing Yin, William K. Cheung, Benjamin C. M. Fung, Jonathan Poon

HIGHLIGHT: In this paper, we propose a deep learning model called MMORE which alleviates this conflicting objective issue by allowing multiple representations to be inferred for each ontological category via an attention mechanism.

642, TITLE: Learning Shared Vertex Representation in Heterogeneous Graphs with Convolutional Networks for Recommendation

https://www.ijcai.org/proceedings/2019/642

AUTHORS: Yanan Xu, Yanmin Zhu, Yanyan Shen, Jiadi Yu

HIGHLIGHT: In this paper, we propose to mine three kinds of information (user preference, item dependency, and user similarity on behaviors) by converting interaction sequence data into multiple graphs (i.e., a user-item graph, an item-item graph, and a user-subseq graph).

643, TITLE: Dual-Path in Dual-Path Network for Single Image Dehazing

https://www.ijcai.org/proceedings/2019/643

AUTHORS: Aiping Yang, Haixin Wang, Zhong Ji, Yanwei Pang, Ling Shao

HIGHLIGHT: To address this issue, the paper proposes a DPDP-Net (Dual-Path in Dual-Path network) framework by employing a hierarchical dual path network.

644, TITLE: Disparity-preserved Deep Cross-platform Association for Cross-platform Video Recommendation

https://www.ijcai.org/proceedings/2019/644

AUTHORS: Shengze Yu, Xin Wang, Wenwu Zhu, Peng Cui, Jingdong Wang

HIGHLIGHT: In this paper, we propose a cross-platform association model for cross-platform video recommendation, i.e., Disparity-preserved Deep Cross-platform Association (DCA), taking platform-specific disparity and granularity difference into consideration.