

- 184, TITLE: Explaining Reinforcement Learning to Mere Mortals: An Empirical Study
<https://www.ijcai.org/proceedings/2019/184>
AUTHORS: Andrew Anderson, Jonathan Dodge, Amrita Sadarangani, Zoe Juozapaitis, Evan Newman, Jed Irvine, Souti Chattopadhyay, Alan Fern, Margaret Burnett
HIGHLIGHT: We present a user study to investigate the impact of explanations on non-experts?
- 185, TITLE: Balancing Explicability and Explanations in Human-Aware Planning
<https://www.ijcai.org/proceedings/2019/185>
AUTHORS: Tathagata Chakraborti, Sarath Sreedharan, Subbarao Kambhampati
HIGHLIGHT: In this paper, we bring these two concepts together and show how an agent can achieve a trade-off between these two competing characteristics of a plan.
- 186, TITLE: Multi-agent Attentional Activity Recognition
<https://www.ijcai.org/proceedings/2019/186>
AUTHORS: Kaixuan Chen, Lina Yao, Dalin Zhang, Bin Guo, Zhiwen Yu
HIGHLIGHT: In this work, we consider two inherent characteristics of human activities, the spatially-temporally varying salience of features and the relations between activities and corresponding body part motions.
- 187, TITLE: Deep Adversarial Social Recommendation
<https://www.ijcai.org/proceedings/2019/187>
AUTHORS: Wenqi Fan, Tyler Derr, Yao Ma, Jianping Wang, Jiliang Tang, Qing Li
HIGHLIGHT: In this paper, to address the aforementioned challenges, we propose a novel deep adversarial social recommendation framework DASO.
- 188, TITLE: A Semantics-based Model for Predicting Children's Vocabulary
<https://www.ijcai.org/proceedings/2019/188>
AUTHORS: Ishaan Grover, Hae Won Park, Cynthia Breazeal
HIGHLIGHT: In this paper, we present a model that uses word semantics (semantics-based model) to make inferences about a child's vocabulary from partial information about their existing vocabulary knowledge.
- 189, TITLE: STCA: Spatio-Temporal Credit Assignment with Delayed Feedback in Deep Spiking Neural Networks
<https://www.ijcai.org/proceedings/2019/189>
AUTHORS: Pengjie Gu, Rong Xiao, Gang Pan, Huajin Tang
HIGHLIGHT: To address this issue, we propose a novel spatio-temporal credit assignment algorithm called STCA for training deep spiking neural networks (DSNNs).
- 190, TITLE: Dynamic Item Block and Prediction Enhancing Block for Sequential Recommendation
<https://www.ijcai.org/proceedings/2019/190>
AUTHORS: Guibing Guo, Shichang Ouyang, Xiaodong He, Fajie Yuan, Xiaohua Liu
HIGHLIGHT: To resolve these issues, in this paper we propose two enhancing building blocks for sequential recommendation.
- 191, TITLE: Discrete Trust-aware Matrix Factorization for Fast Recommendation
<https://www.ijcai.org/proceedings/2019/191>
AUTHORS: Guibing Guo, Enneng Yang, Li Shen, Xiaochun Yang, Xiaodong He
HIGHLIGHT: In this paper we propose a discrete trust-aware matrix factorization (DTMF) model to take dual advantages of both social relations and discrete technique for fast recommendation.
- 192, TITLE: Decoding EEG by Visual-guided Deep Neural Networks
<https://www.ijcai.org/proceedings/2019/192>
AUTHORS: Zhicheng Jiao, Haoxuan You, Fan Yang, Xin Li, Han Zhang, Dinggang Shen
HIGHLIGHT: Inspired by the success of deep learning on image representation and neural decoding, we proposed a visual-guided EEG decoding method that contains a decoding stage and a generation stage.
- 193, TITLE: MiSC: Mixed Strategies Crowdsourcing
<https://www.ijcai.org/proceedings/2019/193>
AUTHORS: Ching Yun Ko, Rui Lin, Shu Li, Ngai Wong
HIGHLIGHT: In this work, we propose MiSC (Mixed Strategies Crowdsourcing), a versatile framework integrating arbitrary conventional crowdsourcing and tensor completion techniques.

- 194, TITLE: Exploring Computational User Models for Agent Policy Summarization
<https://www.ijcai.org/proceedings/2019/194>
AUTHORS: Isaac Lage, Daphna Lifschitz, Finale Doshi-Velez, Ofra Amir
HIGHLIGHT: In this paper, we explore the use of different models for extracting summaries.
- 195, TITLE: Minimizing Time-to-Rank: A Learning and Recommendation Approach
<https://www.ijcai.org/proceedings/2019/195>
AUTHORS: Haoming Li, Sujoy Sikdar, Rohit Vaish, Junming Wang, Lirong Xia, Chaonan Ye
HIGHLIGHT: We develop the first optimization framework to address this problem, and make theoretical as well as practical contributions.
- 196, TITLE: DeepFlow: Detecting Optimal User Experience From Physiological Data Using Deep Neural Networks
<https://www.ijcai.org/proceedings/2019/196>
AUTHORS: Marco Maier, Daniel Elsner, Chadly Marouane, Meike Zehnle, Christoph Fuchs
HIGHLIGHT: In this work, we present our findings towards estimating a user's flow state based on physiological signals measured using wearable devices.
- 197, TITLE: Why Can't You Do That HAL? Explaining Unsolvability of Planning Tasks
<https://www.ijcai.org/proceedings/2019/197>
AUTHORS: Sarath Sreedharan, Siddharth Srivastava, David Smith, Subbarao Kambhampati
HIGHLIGHT: In this paper, we show that hierarchical abstractions can be used to efficiently generate reasons for unsolvability of planning problems.
- 198, TITLE: Personalized Multimedia Item and Key Frame Recommendation
<https://www.ijcai.org/proceedings/2019/198>
AUTHORS: Le Wu, Lei Chen, Yonghui Yang, Richang Hong, Yong Ge, Xing Xie, Meng Wang
HIGHLIGHT: In this paper, we study the general problem of joint multimedia item and key frame recommendation in the absence of the fine-grained user-image behavior.
- 199, TITLE: Counterfactual Fairness: Unidentification, Bound and Algorithm
<https://www.ijcai.org/proceedings/2019/199>
AUTHORS: Yongkai Wu, Lu Zhang, Xintao Wu
HIGHLIGHT: In this paper, we address this limitation by mathematically bounding the unidentifiable counterfactual quantity, and develop a theoretically sound algorithm for constructing counterfactually fair classifiers.
- 200, TITLE: Fast and Accurate Classification with a Multi-Spike Learning Algorithm for Spiking Neurons
<https://www.ijcai.org/proceedings/2019/200>
AUTHORS: Rong Xiao, Qiang Yu, Rui Yan, Huajin Tang
HIGHLIGHT: To address these limitations, we propose a simple and effective multi-spike learning rule to train neurons to match their output spike number with a desired one.
- 201, TITLE: Achieving Causal Fairness through Generative Adversarial Networks
<https://www.ijcai.org/proceedings/2019/201>
AUTHORS: Depeng Xu, Yongkai Wu, Shuhan Yuan, Lu Zhang, Xintao Wu
HIGHLIGHT: In this paper, we investigate the problem of building causal fairness-aware generative adversarial networks (CFGAN), which can learn a close distribution from a given dataset, while also ensuring various causal fairness criteria based on a given causal graph.
- 202, TITLE: DeepAPF: Deep Attentive Probabilistic Factorization for Multi-site Video Recommendation
<https://www.ijcai.org/proceedings/2019/202>
AUTHORS: Huan Yan, Xiangning Chen, Chen Gao, Yong Li, Depeng Jin
HIGHLIGHT: In this paper, we investigate the user viewing behavior in multiple sites based on a large scale real dataset.
- 203, TITLE: An Input-aware Factorization Machine for Sparse Prediction
<https://www.ijcai.org/proceedings/2019/203>
AUTHORS: Yantao Yu, Zhen Wang, Bo Yuan
HIGHLIGHT: In this work, we improve FMs by explicitly considering the impact of individual input upon the representation of features.
- 204, TITLE: Multiple Noisy Label Distribution Propagation for Crowdsourcing

<https://www.ijcai.org/proceedings/2019/204>

AUTHORS: Hao Zhang, Liangxiao Jiang, Wenqiang Xu

HIGHLIGHT: To solve this problem, a multiple noisy label distribution propagation (MNLDP) method is proposed in this study.

205, TITLE: FAHT: An Adaptive Fairness-aware Decision Tree Classifier

<https://www.ijcai.org/proceedings/2019/205>

AUTHORS: Wenbin Zhang, Eirini Ntoutsi

HIGHLIGHT: In this paper, we introduce a learning mechanism to design a fair classifier for online stream based decision-making.