Automated Machine Learning Competition Track (Auto-ML Track)

Temporal relational data is very common in industrial machine learning applications, such as online advertising, recommender systems, financial market analysis, medical treatment, fraud detection, etc. With timestamps to indicate the timings of events and multiple related tables to provide different perspectives, such data contains useful information that can be exploited to improve machine learning performance. However, currently, the exploitation of temporal relational data is often carried out by experienced human experts with in-depth domain knowledge in a labor-intensive trial-and-error manner.

In this challenge, participants are invited to develop AutoML solutions to **binary classification problems for temporal relational data**. The provided datasets are in the form of multiple related tables, with timestamped instances. Five public datasets (without labels in the testing part) are provided to the participants so that they can develop their AutoML solutions. Afterward, solutions will be evaluated with five unseen datasets without human intervention. The results of these five datasets determine the final ranking. More >

Sponsor: 4Paradigm.com

Total reward: $33,500

Winners

First Prize ($15,000): Zhipeng Luo from DeepBlue Technology (Shanghai) Co., Ltd, Jianqiang Huang from Peking University, Mingjian Chen and Bohang Zheng from DeepBlue Technology (Shanghai) Co., Ltd

Second Prize ($10,000): Chengxi Xue, Shu Yao, Zeyi Wen, and Bingsheng He from National University of Singapore

Third Prize ($5,000): Suiyuan Zhang and Jinnian Zhang from Alibaba Group, Zhanhao Liu from Georgia Institute of Technology, Zhiqiang Tao, Yaliang Li, Bolin Ding, and Shaojian He from Alibaba Group, Xu Chu from Georgia Institute of Technology, Xin Li and Jingren Zhou from Alibaba Group

Honorable Prizes ($500):

- **4th Place:** Jian Sun, Hao Zhang, Chunmeng Zhong, and Zaiyu Pang from Tsinghua University, Hongyu Jia from Dalian University of Technology, Xiao Huang from Nanjing University, Bin Lin from Nanjing University of Posts and Telecommunications, and Xibin Zhao and Hai Wan from Tsinghua University
- **5th Place:** Masashi Yoshikawa and Takeru Ohta from Preferred Networks, Inc.
- **6th Place:** Suiqian Luo from Guazi
- **7th Place:** Yu Luo and Qizhen Yao from Hikvision Research Institute
- **8th Place:** Guanghui Zhu, Xu Guo, Xin Fang, and Zhuoer Xu from Nanjing University
- **9th Place:** Mengjiao Bao from Beihang University, Hui Xue from Microsoft Research Asia, Huan Chen and Peng Yan from Meituandianping
- **10th Place:** Jin Xu, Hantao Shu, and Jian Li from Tsinghua University