Han Zhu

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Education

- 2010.8-2014.7 Bachelor student at School of Software, Tsinghua Univ.
- 2014.8-2017.7 Master student at Institute of Information System and Engineering, School of Software, Tsinghua Univ.

Projects

Wanda box office prediction

In this project, our mission is to predict the box office of a movie in the first week of its release. We have all historical movie informations and their booking data in Wanda. I contributed to data cleaning, feature selection and algorithm design in this project. The final prediction result in APE (Absolute percentage errors) is 12% in testing data. The results are very instructive when arranging the film row piece volume.

Transaction system optimization of HSQLDB

HSQLDB is a SQL relational database written in Java. In the earlier version of HSQLDB, it only support "SERIALIZABLE" and "READ COMMITTED" transaction levels. I lead our team to add another two transaction levels "REPEATABLE READ" and "SNAPSHOT" to HSQLDB. Besides, we extend its table level lock to row level lock to improve query efficiency.

Online fashion design website development

"geemaking.com" is a fashion design website. Users can design and sell there own clothes in the platform. I am responsible for the server development.

Research

Research Area

Machine Learning, Data Quality, Deep Learning

Publications

- Deep Hashing Network for Efficient Similarity Retrieval. **Han Zhu**, Mingsheng Long, Jianmin Wang and Yue Cao (AAAI 16)
- Deep Quantization Network for Efficient Image Retrieval. Yue Cao, Mingsheng Long, Jianmin Wang, **Han Zhu**, Qingfu Wen (AAAI 16)
- Constraint-Variance Tolerant Data Repairing. Shaoxu Song, **Han Zhu**, Jianmin Wang (SIGMOD 16)
- Probabilistic Correlation-based Similarity measure on text records. Shaoxu Song, **Han Zhu**, Lei Chen (Information Science 289, 8-24)

Skills

- Data analysis
- Machine learning, especially deep learning
- Web development
- C/C++, Java, Python, JS, Matlab