数据挖掘实验报告（pages 6-8）

模板: https://www.ieee.org/conferences/publishing/templates.html

## 一、实验性分析 - Letter Recognition

1. 数据源https://archive.ics.uci.edu/ml/datasets.php
2. 完整的数据分析

STEPS

1. Develop an understanding of the purpose of the data mining exercise.
2. Obtain the data set, for example by sampling.
3. Explore, clean and preprocess the data.
4. Reduce and partition the data.
   - Supervised tasks need a training and a testing set, and often a development set.
5. Determine the data mining task and technique.
6. Iterative implementation and parameter tuning.
7. Assess the results; compare models.
8. Deploy the best model.

## 二、对选择的论文涉及到的研究方向做综述研究

Group A
Deep Learning for Community Detection: Progress, Challenges and Opportunities (IJCAI 2020)
Detecting the Evolving Community Structure in Dynamic Social Networks (WWWJ 2020)
Evolutionary Community Detection in Dynamic Social Networks (IJCNN 2019)

Group B

FraudNE: a Joint Embedding Approach for Fraud Detection (IJCNN 2018)
Deep Structure Learning for Fraud Detection (ICDM 2018)

Group C
Heterogeneous Graph Attention Networks for Early Detection of Rumors on Twitter (IJCNN 2020)
Deep Structure Learning for Rumor Detection on Twitter (IJCNN 2019)

Group D
Social Recommendation with an Essential Preference Space (AAAI 2018)
CPMF: A Collective Pairwise Matrix Factorization Model for Upcoming Event Recommendation

Group E
Noise-Resilient Similarity Preserving Network Embedding for Social Networks (IJCAI 2019)
Temporal Network Embedding with High-Order Nonlinear Information (AAAI 2020)

Group F
Guiding Cross-Lingual Entity Alignment via Adversarial Knowledge Embedding (ICDM 2019)

Group G
Bag Constrained Structure Pattern Mining for Multi-Graph Classification
Boosting for Multi-Graph Classification

三、个人Github截图

四、课程感言