Extraction and Description of the Narrative Structure of TV Series

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1 Report

1.1 Parameter tunning

1. K value tunning: Though I have increased the number of clusters the accuracy does not seem to change significatly. Meanwhile the Purity and Mitual Information has changed. When the cluster is very small, the purity is high and vice versa".

2. Changing initial Centroid: Changing the center randomly with constant clusters (K=5), still the cluster accuracy does not change significantly. But the Purity fluctuates while we increase the number of times of the center changing.

1.2 Reading

Like we discussed I have been reading some papers. here are the papers I read.

1. Social Network Analysis of TV Drama Characters via Deep Concept Hierarchies (we will discuss this in the next group reading)

    - face recognition on the characters by using **convolutional recursive deep learning model**. Then they establish the social network between the characters by **deep concept hierarchies model** and analyze their affinity and the change of social network while the stories unfold

2. MPST: A Corpus of Movie Plot Synopses with Tags (suggested by Herve)

    - Task of collecting a corpus of movie plot synopses and tags
    - Build a fine-grained set of around 70 tags exposing heterogeneous characteristics of movie plots and the multi-label associations of these tags with some 14K movie plot synopses
    - investigate how these tags correlate with movies and the flow of emotions throughout different types of movies
    - This corpus to explore the feasibility of inferring tags from plot synopses

3. Video Google: A Text Retrieval Approach to Object Matching in Videos. This is for the instance search that we discussed on Tuesday

2 Clustering Using Audio

Since the clustering using the subtitles does not give a good accuracy, I am trying with the audio data or combination of the two

3 To do: Next Week

- Present the paper for discussion on next Tuesday
- Work on the clustering
- Read on segmentation
- Work on scene segmentation of video (Episodes): for my project and the Instance search project