Case Study on text mining

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By crawling text, we can get large text data. And by text mining, we can get new knowledge of that data. One of the key areas of mining is to protect future behavior by that crawled data. By Bollen, Mao and Zeng, they made future prediction of stock market by twitter text data.

They use DJIA witch evaluate pudlic mode states, and GPOMS which predicts emotions of public. And lastly, they use OpinionFinder. By that data, they evaluate prediction of the model using self-organizing Fuzzy neural networks.

In cross-validating OpinionFinder and GROMS, Sure, Vital, Happy’s p value are fit to that text data. And 7 combinations of words are used to predict data. The result, best prediction is from Calm + Happy and best word for stock index prediction is Calm.

for summary, they use words on mood, and emotion measured with GPOMS words. The best prediction word was calm, and neural network Self-organizing Fuzzy Neural Network.