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Mining Psychology from English News and Applications on Finance

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概要

Our perceptions of the world are largely shaped by news media. Understanding the psychology of how media portray certain words is a critical step towards assessing media's influence on those perceptions. We implement a system which analyzes the 'image' of a given query word in a given corpus of news texts by producing a list of other words with which this query is strongly associated, which will be used to construct a covariance matrix amongst financial assets, based on their co-appearances on news. The presentation will cover theories of computational linguistics, machine learning, sentiment analysis, and implementation issues in real time news analysis.