



Overview of Text Mining

Hui Fang

Department of Electrical and Computer Engineering
University of Delaware



Motivation of Text mining

- Replace our current manual labor in digesting content
 - E.g., email spam detection
- Discover knowledge that humans may not be able to do
 - Business intelligence
 - Cyber-security
 - Leveraging social media to optimize decision making

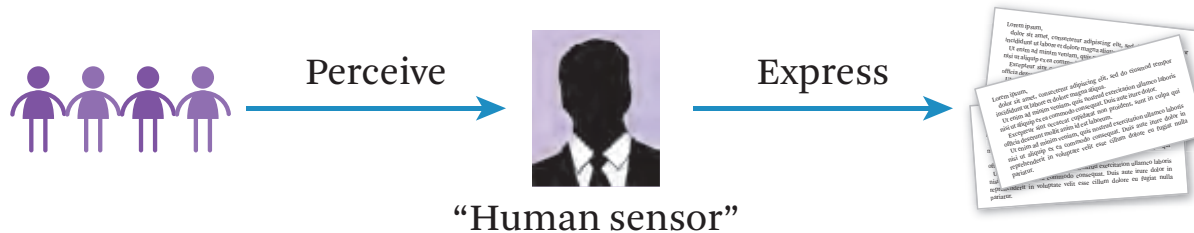


Humans as Subjective Sensors

Weather -----> Thermometer -----> 3°C, 15°F, ...

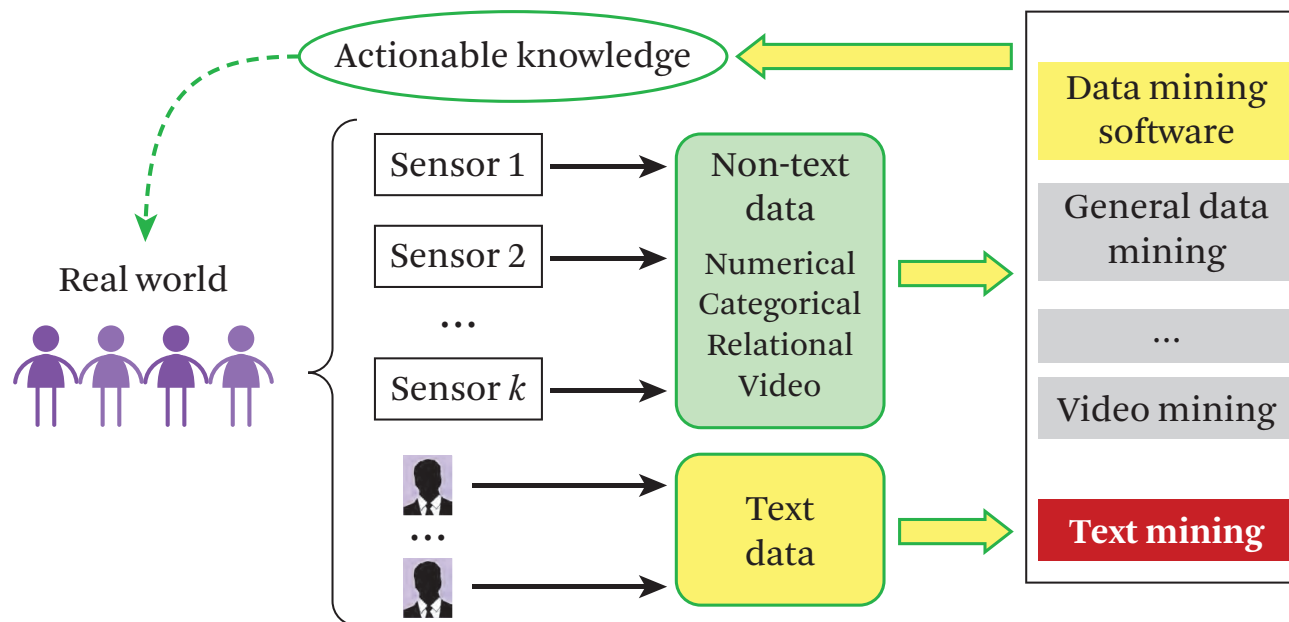
Locations -----> Geo sensor -----> 41°N and 120°W ...

Networks -----> Network sensor -----> 01000100011100



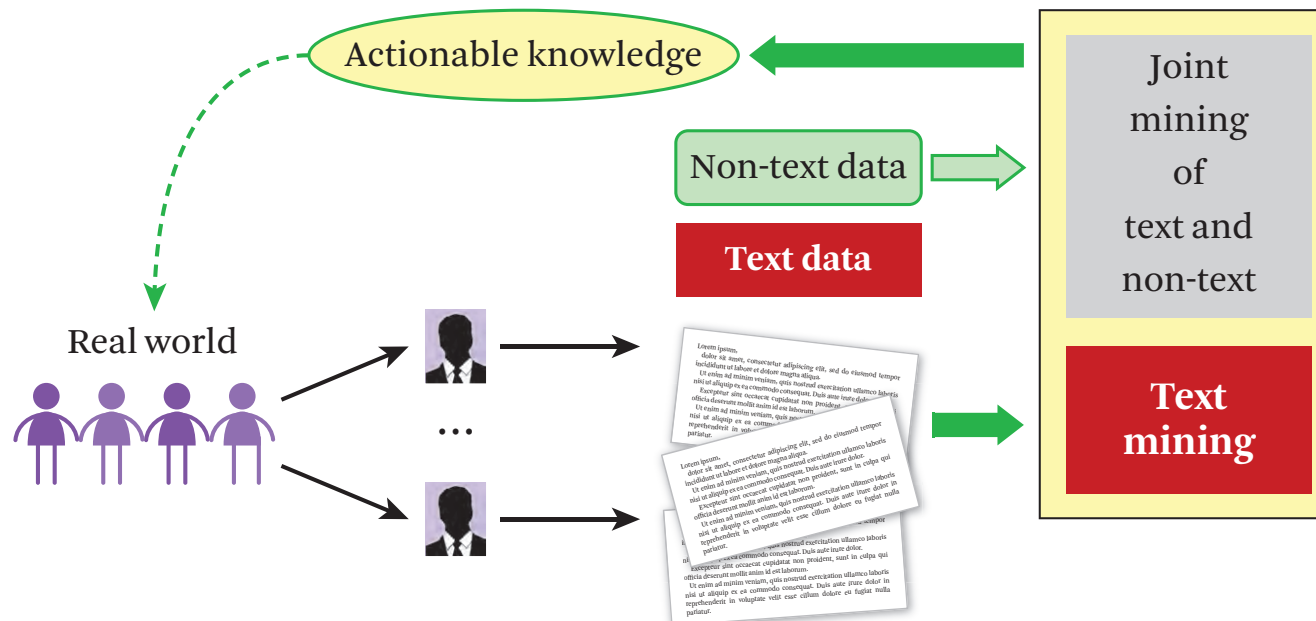


Text Mining as a special case of data mining





The General Problem of Text Mining





Mining different types of knowledge from text data

