CS 8803 Social Computing: Text (Polarity/Affect)

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Diurnal and Seasonal Mood Vary with Work, Sleep, and Day length Across Diverse Cultures
Summary

• One of the early works examining relationship between social media mood and behavior and psychological theories.
• The potential of online social media to study individual behavior.
• Identify daily and seasonal mood variations and relate it to work, sleep and daylight.
• Validate circadian rhythms in humans.
  – PA spike in the morning, NA increases as the day progresses
• Measure positive affect and negative affect based on the lexicon LIWC.
• PA and NA are not mirror images of each other.
Not All Moods Are Created Equal! Exploring Human Emotional States in Social Media
Summary

• Analysis of human moods beyond typically examined PA and NA.
• Use of Amazon’s mechanical Turk to determine a corpus of mood indicative words.
• Basic idea: use hashtagged moods as self-reported information on the emotional state of a person.
• Use of the circumplex model to examine characteristics of identified moods.
  • This is because moods not only have a valence attribute, but also an activation attribute.
• The mood corpus is used to examine aspects of human behavior: degrees of mood usage, sociality, activity and participatory patterns such as information sharing (via links) and conversation.
Modeling Public Mood and Emotion: Twitter Sentiment and Socioeconomic Phenomena
Summary

• Examine how Twitter moods reflect social, political, and economic events

• Use POMS (profile of mood states) for detecting mood-indicative twitter posts.
  • POMS dimensions: tension, depression, anger, vigor, fatigue and confusion

• Investigate how a six vector representation of moods deviates during different big scope events.

• High stress/tension during elections; excitement/vigor during thanksgiving.
Many of the sentiment theories used are grounded in psychology: what is the utility of studying Twitter?
Twitter is used by millions, but could it also have bias?
Dictionary approach of mood detection: what is its limitation?
True emotion versus displayed emotion on social media: how would you tackle this issue?
People use social media for all kinds of reasons and purposes. Would that affect the moods they express?
Would “online performance” and identity impact the kinds of moods shared?
Can social media manifested emotion have a cultural, demographic, or geographical bias?
Could the moods of certain Twitter users be more “important” than others? (Hint: influencers and contagion)
What are some of the other aspects, not considered in the papers, they may impact mood? (Hint: Aristotole said: “man is a social animal”)

The third paper analyzes moods during important events, and how the latter can impact the former. However, can public displays of mood from others impact our opinions?
Many of you wanted to talk about the Facebook emotion study. What are the scientific contributions? What the ethical flaws?
Next class

- Wednesday 9/24
- Our TA Joe will teach the class (I am going to be on a work trip)

- There are NO assigned readings, but watch the following video:

"The Social Life of Small Urban Places" by William Whyte
http://www.youtube.com/watch?v=R6G4B9Z27yA