SemEval-2018 Task #1: **Affect in Tweets**

http://alt.qcri.org/semeval2018

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Models of Affect

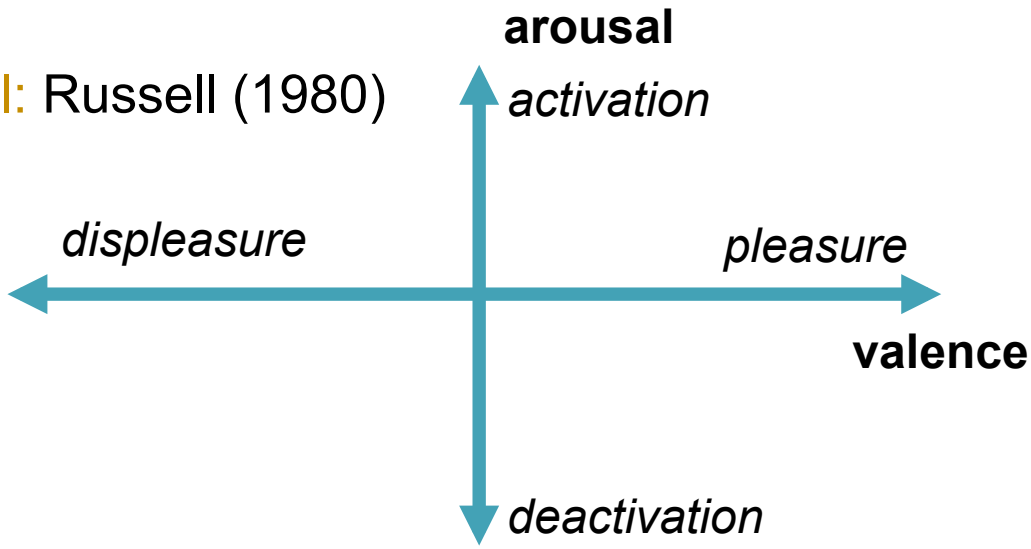
A. Categorical Model: Ekman (1971), Plutchik (1980),…

- anger

- joy

- …

B. Circumplex Model: Russell (1980)



Task EI-reg: Detecting Emotion Intensity (regression)

Given:

- a tweet
- an affect category X (anger, fear, joy, sadness)

Task A1: determine the intensity or amount of X felt by the speaker—a real-valued score between 0 and 1:

- a score of 1: speaker feels the highest amount of X
- a score of 0: speaker feels the lowest amount of X

4 training sets, 4 test sets, and 4 subtasks: one for each affect category X

Task EI-oc: Detecting Emotion Intensity (ordinal classification)

Given:

- a tweet
- an affect category X (anger, fear, joy, sadness, love, surprise, disappointed, lonely, hopeful)

Task A2: what best represents the intensity of X felt by the speaker:

- no X
- slight X
- moderate X
- extreme X

4 training sets, 4 test sets, and 4 subtasks: one for each affect category X

Task VAD-reg: Detecting Valence, Arousal, and Dominance (regression)

Given:

- a tweet
- an affect category X (valence, arousal, dominance)

Task B1: determine the amount of X felt by the speaker—real-valued scores between 0 and 1:

- a score of 1: highest amount of X
- a score of 0: lowest amount of X

1 training set, 1 test set, and 3 subtasks---one for each affect category X

Task VAD-oc: Detecting Valence, Arousal, Dominance (ordinal classification)

Given:

- a tweet
- an affect category X (valence, arousal, dominance)

Task B2: what best represents the amount of X felt by the speaker:

- extremely positive/active/dominant
- moderately positive/active/dominant
- slightly positive/active/dominant
- neutral
- slightly negative/passive/submissive
- moderately negative/passive/submissive
- extremely negative/passive/submissive

1 training set, 1 test set, and 3 subtasks---one for each affect category X

Affect in Tweets Data

- Annotated the dataset using best–worst scaling (BWS) and crowdsourcing
- For:
  - Four emotion categories
    - anger, fear, joy, sadness
  - Valence, arousal, dominance
  - English, Arabic, Spanish

Teams can participate in any of the subtask and language combinations.

Resources for SemEval-2018 Task #1: Affect in Tweets

http://alt.qcri.org/semeval2018

EmoInt-2017 shared task website:

http://saifmohammad.com/WebPages/EmotionIntensity-SharedTask.html

- data, annotation questionnaires, evaluation scripts, interactive visualizations of the data

AffectiveTweets Package:

https://github.com/felipebravom/AffectiveTweets

Various affect lexicon available here:

http://saifmohammad.com/WebPages/AffectIntensity.htm

- NRC Hashtag Emotion lexicon, NRC Affect Intensity Lexicon, NRC Emotion lexicon, and others

Best-Worst Scaling resources available here:

http://saifmohammad.com/WebPages/BestWorst.html

- scripts and various BWS datasets