

In Proceedings of

## **Task:** Detecting Personalit Can a system automatically detect personal

- Stream of consciousness essays
- Facebook posts
- Twitter messages
- Blog or forum posts

# System: Supervised Ma

### **Features Used**

Mairesse Baseline: words per sentence, long words, type/token ratio, negations, assents, articles prepositions, numbers, pronouns, emotion words, cognition words, sensory and perceptual words, social processes words, time words, space words.

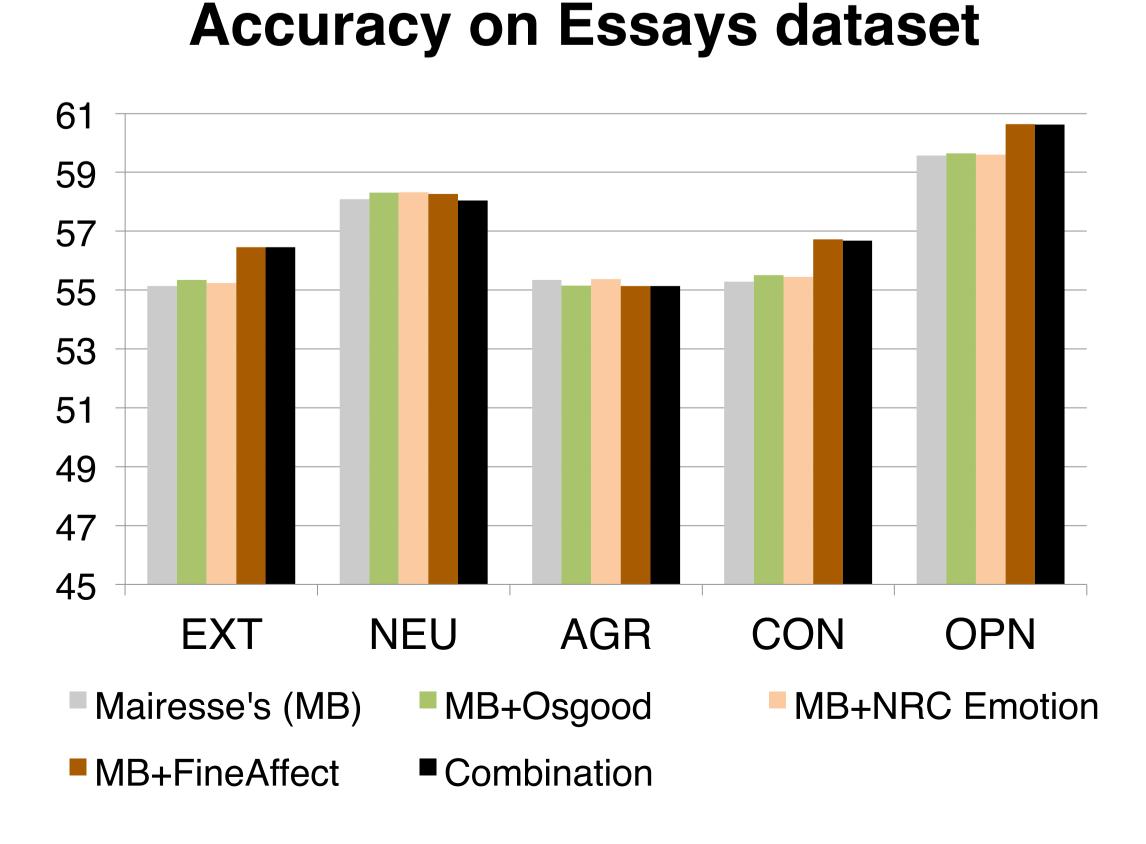
#### **Unigrams:** words

**Specificity:** Info. content of words in WordNet. **Coarse Affect:** 

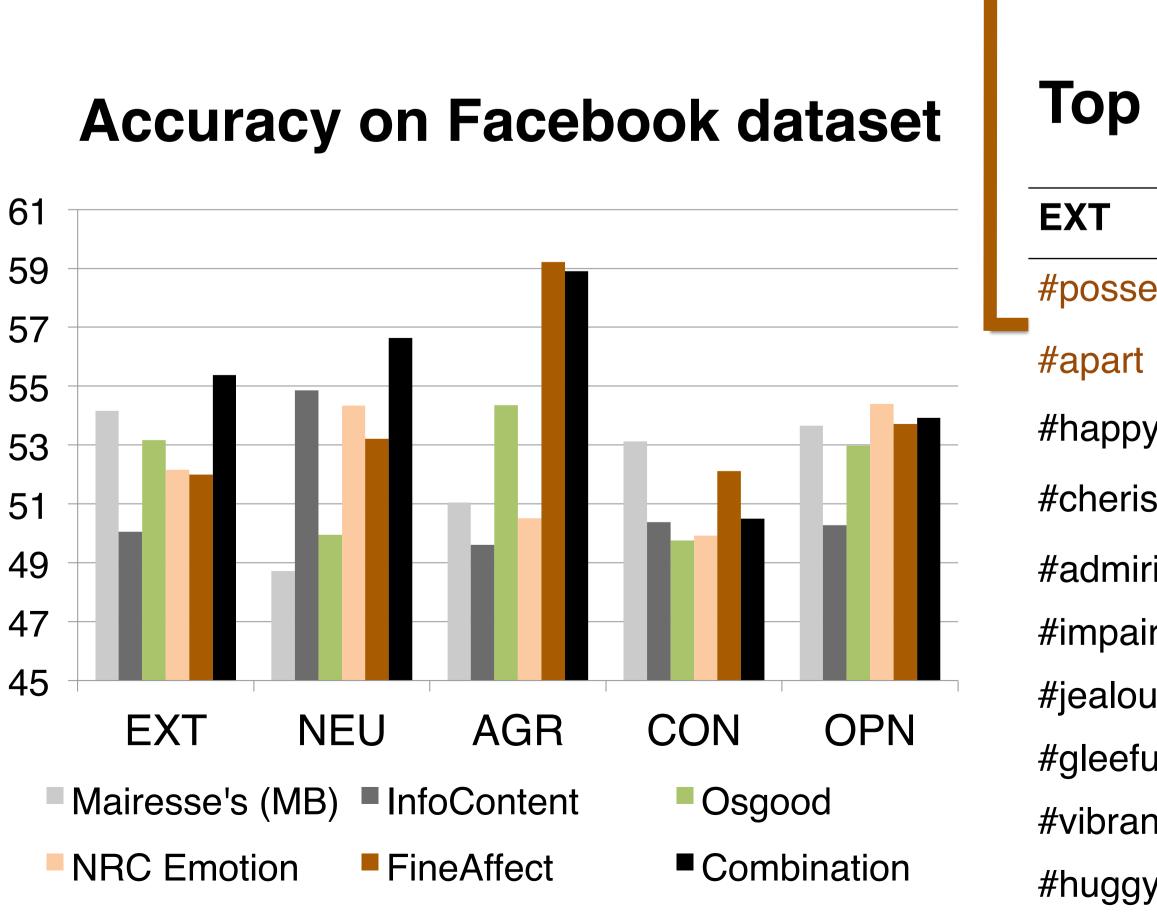
**Osgood Lexicon (**evaluative, activity, potency) NRC Emotion Lexicon (8 basic emotions) **Fine Affect:** 

NRC Hashtag Emotion Lexicon (500 emotions)

# **Results and Analysis**



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	<b>hine Learn</b> Affect Lexic association.			sifier entiment pairs
S,	a.k.	evaluative a. sentiment pos, neg)	evaluative, activity, potency	basic emoti (joy, sadne fear, ange
	Sent automatically generated	RC Hashtag iment Lexicon	Osgood Lexicon	
5)	Lexic MP	RC Emotion con (pos, neg) QA Lexicon g Liu Lexicon		NRC Emotion I (8 emotion WordNet Af (6 emotion

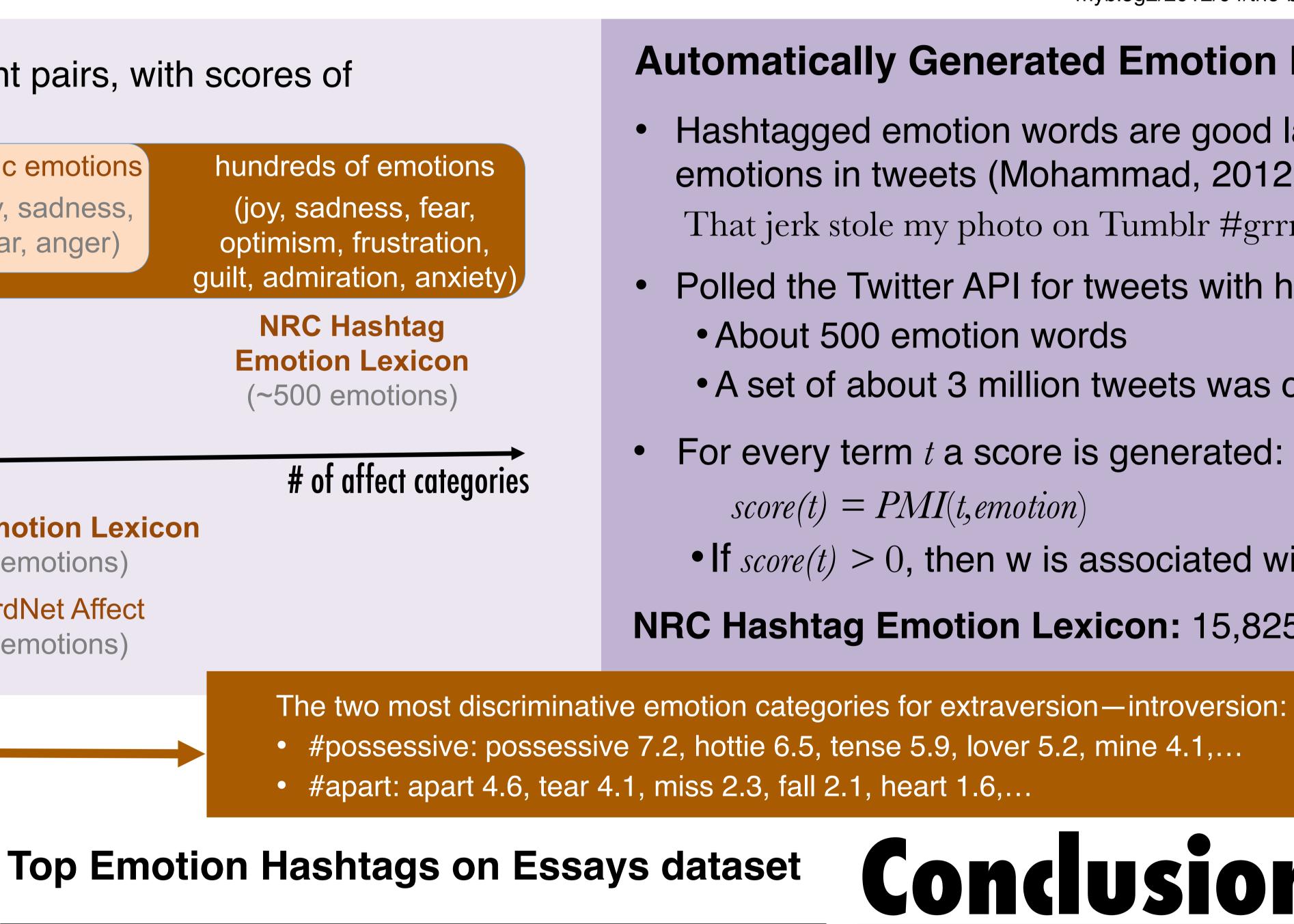


## ify Personality

ienko la on, July 2013, Boston, USA.

## ality Traits or Dimensions of Personality

**5.** introversion: sociable, assertive vs. aloof, shy onventionality: intellectual, insightful vs. shallow, unimaginative **ntaneous:** self-disciplined, organized vs. inefficient, careless **neuroticism**: calm, unemotional vs. insecure, anxious **ability:** friendly, co-operative vs. antagonistic, fault-finding



	NEU	AGR	CON	OPN
essive	#guilt	#happy	#excited	#anxious
t	#eager	#anger	#apprehensive	#delighted
у	#interested	#homesick	#anger	#blah
sh	#keen	#giddy	#hate	#exhausted
ring	#helpless	#chaotic	#ashamed	#sweet
ired	#passion	#heartbroken	#giddy	#tired
usy	#unhappy	#sweet	#partial	#lonely
ul	#insignificant	#neglected	#disturbed	#nervous
Int	#timid	#loving	#wrecked	#ecstatic
IУ	#anticipation	#lonely	#needed	#wrecked



myblog2/2012/04/the-big-5.html

### **Automatically Generated Emotion Lexicon**

- Hashtagged emotion words are good labels of emotions in tweets (Mohammad, 2012)
  - That jerk stole my photo on Tumblr #grrrr #anger
- Polled the Twitter API for tweets with hashtags About 500 emotion words
  - A set of about 3 million tweets was compiled
  - For every term t a score is generated:
  - If score(t) > 0, then w is associated with *emotion*
- NRC Hashtag Emotion Lexicon: 15,825 entries

# Conclusions

- Fine emotion categories consistently help detect personality in both essays and Facebook datasets
- Information content and coarse affect categories do not lead to consistent gains
- Clustering of fine emotion categories is not effective
- Generated emotion lexicon from tweets using hashtags
- First lexicon for hundreds of emotions