8th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis (WASSA 2017)

BACKGROUND

Research in automatic Subjectivity and Sentiment Analysis (SSA), as subtasks of Affective Computing and Natural Language Processing (NLP), has flourished in the past years. The growth in interest in these tasks was motivated by the birth and rapid expansion of the Social Web that made it possible for people all over the world to share, comment or consult content on any given topic. In this context, opinions, sentiments and emotions expressed in Social Media texts have been shown to have a high influence on the social and economic behaviour worldwide. SSA systems are highly relevant to many real-world applications (e.g. marketing, eGovernance, business intelligence, social analysis, public health) and also many tasks in NLP – information extraction, question answering, textual entailment, to name just a few.

The importance of this field has been proven by the high number of approaches proposed in research in the past decade, as well as by the interest that it raised from other disciplines (Economics, Sociology, Psychology, Marketing, Crisis Management, Behavioral Studies) and the applications that were created using its technology.

In spite of the growing body of research in the area in the past years, dealing with affective phenomena in text has proven to be a complex, interdisciplinary problem that remains far from being solved. Its challenges include the need to address the issue from different perspectives, at different levels, and different modalities, depending on the characteristics of the textual genre, the language(s) treated and the final application for which the analysis is done. Additionally, SSA from Social Media texts has opened the way to many other types of analyses, linking textual data with images, social network metadata and social-media-specific text markings (e.g. Twitter hashtags).

Finally, the possibility to follow trends on opinions, while comparing and contrasting different sources of information (e.g. mainstream media vs. social media) allows for a more complete view and fairer opinion formation process.

ENVISAGED SCOPE OF WASSA 2017

The aim of the 8th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis (WASSA 2017) is to continue the line of the previous editions, bringing together researchers in Computational Linguistics working on Subjectivity and Sentiment Analysis and researchers working on interdisciplinary aspects of affect computation from text. Additionally, starting with WASSA 2013, we extended the focus to Social Media phenomena and the impact of affect-related phenomena in this context. In this new proposed edition, we would like to encourage the submission of long and short research and demo papers including, but not restricted to the following topics related to subjectivity and sentiment analysis:

- Resources for subjectivity, sentiment and social media analysis; (semi-)automatic corpora generation and annotation
- Opinion retrieval, extraction, categorization, aggregation and summarization
In 2017, we also include two shared tasks on emotions as part of the workshop. New labeled training and test data will be provided and participants can test their automatic systems on this common dataset. Papers describing the systems will be presented at the WASSA workshop, either as oral presentations (top scoring systems) or as posters.

Details of previous iterations of WASSA are provided in the appendix (#submissions, acceptance rates, etc.).

EMOTION DETECTION SHARED TASKS AT WASSA 2017

**Task 1: Emotion intensity recognition from tweets**

Given a tweet and an emotion X, determine the intensity or degree of emotion X felt by the speaker - a real-valued score between 0 and 1 (0 stands for not feeling any emotion X, and 1 stands for feeling the maximum amount of emotion X). The tweet along with the emotion X will be referred to as an instance. (Note: The absolute values of these scores or not meaningful on their own. They are meant to indicate whether one tweet is associated with more emotion intensity than another.)

Data: Training and test datasets will be provided for four emotions: joy, sadness, fear, and anger. For example, the anger training dataset will have tweets along with a real-valued score between 0 and 1 indicating the degree of anger felt by the speaker (0 stands for not angry at all, and 1 stands for feeling the maximum amount of anger). The test data will include only the tweet text. Gold emotion intensity scores will be released after the evaluation period. More details on the WASSA 2017 website.

**Task 2: Emotion Linking and Classification (EmoLinC)**

Given a tweet about a topic/target, link it to a human need, motivation, objective, desire, goal and classify it according to either the emotion/emotions the author is most likely intending to convey,
the lack of emotion or the fact that the text is sarcastic/ironic. More details on the WASSA 2017 website.

**ORGANIZERS**

**Alexandra Balahur**, European Commission Joint Research Centre, Directorate I, Text and Data Mining Unit, alexandra.balahur@jrc.ec.europa.eu  
**Saif M. Mohammad**, National Research Council Canada, saif.mohammad@nrc-cnrc.gc.ca  
**Erik van der Goot**, European Commission Joint Research Centre, Directorate I, Text and Data Mining Unit, Erik.van-der-Goot@jrc.ec.europa.eu

**PROGRAM COMMITTEE (PARTICIPATION CONFIRMED)**

Felipe Bravo - University of Waikato, New Zealand  
Nicoletta Calzolari - CNR Pisa, Italy  
Erik Cambria - University of Stirling, U.K.  
Fermin Cruz Mata - University of Seville, Spain  
Montse Cuadros - Vicomtech, Spain  
Leon Derczynski - University of Sheffield, U.K.  
Michael Gamon – Microsoft, U.S.A.  
Veronique Hoste - University of Ghent, Belgium  
Ruben Izquierdo Bevia – Nuance, Spain  
Svetlana Kiritchenko, National Research Council, Canada  
Isa Maks - Vrije Universiteit Amsterdam, The Netherlands  
Diana Maynard - University of Sheffield, U.K.  
Rada Mihalcea - University of Michigan, U.S.A.  
Karo Moilanen - University of Oxford, U.K.  
Günter Neumann - DFKI, Germany  
Constantin Orasan - University of Wolverhampton, U.K.  
Viktor Pekar - University of Wolverhampton, U.K.  
Jose-Manuel Perea-Ortega – University of Extremadura, Spain  
Maite Martin Valdivia – University of Jaen, Spain  
Paolo Rosso - Technical University of Valencia, Spain  
Bjoern Schueller – Imperial College London, U.K.  
Josef Steinberger - West Bohemia University Prague, The Czech Republic  
Maite Taboada – Simon Fraser University, Canada  
Mike Thelwall - University of Wolverhampton, U.K  
José Antonio Troyano - University of Seville, Spain  
Dan Tufis - RACAI, Romania  
Alfonso Ureña - University of Jaén, Spain  
Marilyn Walker - University of California Santa Cruz, U.S.A.  
Janyce Wiebe - University of Pittsburgh, U.S.A.  
Michael Wiegand - Saarland University, Germany  
Taras Zagibalov - Brantwatch, U.K.