

The 5th International Workshop on Emotion Recognition (EMORE)
at the 14th Brain Informatics Conference (BI 2021)

Padova, Italy

September 17-19 2021

Description:

Emotion Recognition became a key scenario for Artificial Intelligence and Affective Computing, in particular human robot interaction, data mining systems, and social network analysis.

Various emotion-mining techniques can be exploited for creating and automating personalized interfaces or subcomponent technology for larger systems, i.e., in business intelligence, affective tutoring and e-learning, social robots, and recommender systems.

Different from sentiment analysis, this approach works at a deeper level of abstraction, aiming at recognizing specific emotions and not only the positive/negative sentiment; in order to extract, manage and predict emotions in limited sets, based on novel models of emotions, or on well-accepted models.

The aim of the international workshop EMORE is to present, discuss and ideate new emotion recognition techniques in any AI-related task, bringing together researchers and practitioners for stimulating cooperation and cross-fertilization between different communities focused on research, development and applications of emotion recognition. Since the cooperation among disciplines, e.g., computer science, psychology, neurology, is of great interest and benefit for this research area, we particularly invite submissions with an interdisciplinary view and participation of authors. ACER-EMORE also welcomes papers on ongoing projects and PhD showcases, as well as applications, data sets, novel techniques, and multimodal or interdisciplinary approaches to emotion recognition.

The ACER-EMORE co-located workshop aims also to create a network of research for future events and publications on Affective Computing, as already established in the previous editions:

ACER-EMORE2020 @ICCSA Cagliari, Italy (online for covid)

ACER-EMORE2019@ICCSA Saint Petersburg, Russia;

EMORE2018@ICCSA Melbourne, Australia;

EMORE2017@ICCSA Trieste, Italy.

Topics include, but are not limited to:

*Affective computing and Emotion Recognition in Web Intelligence

*Models of emotions, measuring emotions on the Web

*Multidimensional emotion recognition

*Emotional/affective process mining

- *Emotions in the crowds, emotions and sentiments in social networks, link prediction
- *Affective tagging and emotion recognition in Recommender Systems
- *Emotion recognition across cultural variations, local-culture emotion recognition
- *Semantic Emotion Recognition, Linked Data in affective spaces, affective ontologies, and sentic computing
- *Natural Language Processing, Emotion extraction from text
- *Automated emotion/mood tagging with emoji/memes
- *Facial/gestures/visual emotion recognition and synthesis, emotion recognition in video streaming
- *Emotional, affective states associated with music, audio or speech
- *Recognition of emotions elicited by artistic stimuli e.g. paintings
- *Affective computing, emotion recognition from Brain -Interfaces or sensors e.g. EMG sensors, motion sensors, GPS tracking
- *Biomimetic modeling of emotions, models of emotionally communicative behavior, evolved or emergent emotional behavior
- *Emotion recognition in social robots, intelligent interfaces, symbiotic cognitive systems
- *Affective states or emotions expressed by web-based/cloud robots, web-based Artificial intelligence, affective human-computer interfaces
- *Online Human-Bot emotional interactions, real-time integrated systems
- *Novel technologies using emotional elements that can better engage disabled people, e.g. with ASC (Autism Spectrum Conditions), in learning and communication
- *Assertive robots, assertive artificial intelligence, artificial empathy and emotional intelligence in human-robot interactions
- *Emotion recognition in business/government intelligence and marketing strategies
- *Applications using web-based machine learning services e.g. IBM Watson, Google TensorFlow
- *Specialized interfaces and animation technologies, applications in games and education, e.g. affective tutoring
- *Ethical challenges on affective computing and emotion recognition in Web Intelligence, e.g. deception in emotions-aware HRI, emotional privacy, side effects and evolution of humanity using affective-intelligent web services
- *Applicable lessons from other fields (e.g. robotics, AI, psychology)

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