DEPARTAMENTO DE INFORMÁTICA

Classifying Emotion in News Sentences from the Reader's Perspective

CENTER FOR **INFORMATICS** AND **INFORMATION TECHNOLOGIES**

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Objectives

Our main objective is to answer to the question:
• Given a news sentence which emotion or emotions it can evoke in different readers?

Other objectives:
• It is practicable to apply the OCC emotions model to the problem of classification of emotions in text, according to the reader?
• How much text can it be "understood" by a system?
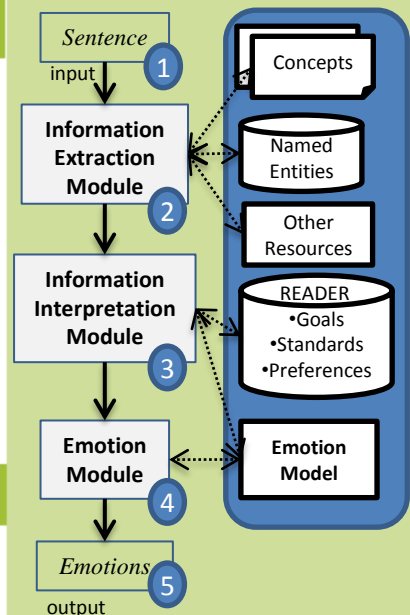• To what extent one can evaluate the emotions that a text can evoke in readers?

Methodology

To achieve the main objective we intend to apply the theory and OCC model of emotions, by implement a system. For that:

1. The system gets as input a sentence.
2. Decomposes the input sentence into triples of the for subject-verb-object.
3. Evaluate (interpreted) each triple according to the READER goals, standards and preferences.
4. Apply the OCC model of the emotions.
5. The system outputs the emotions that the sentence evoked in the reader.

Expected Results

• We will study and develop a practical prototype for classifying news sentences into emotions;

• We expect to be able to classify sentences into emotions with relative success;

• We expect to conclude if the OCC emotion model is or is not appropriate for classifying text into emotions;

• We expect to have a survey of existing tools and resources for text mining; Portuguese. Including resources specific for Portuguese.