

Information Extraction for Short-Answer Question for the University of the Cordilleras

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Abstract : Checking short-answer questions and essays, whether it may be paper or electronic in form, is a tiring and tedious task for teachers. Evaluating a student's output require wide array of domains. Scoring the work is often a critical task. Several attempts in the past few years to create an automated writing assessment software but only have received negative results from teachers and students alike due to unreliability in scoring, does not provide feedback and others. The study aims to create an application that will be able to check short-answer questions which incorporate information extraction. Information extraction is a subfield of Natural Language Processing (NLP) where a chunk of text (technically known as unstructured text) is being broken down to gather necessary bits of data and/or keywords (structured text) to be further analyzed or rather be utilized by query tools. The proposed system shall be able to extract keywords or phrases from the individual's answers to match it into a corpora of words (as defined by the instructor), which shall be the basis of evaluation of the individual's answer. The proposed system shall also enable the teacher to provide feedback and re-evaluate the output of the student for some writing elements in which the computer cannot fully evaluate such as creativity and logic. Teachers can formulate, design, and check short answer questions efficiently by defining keywords or phrases as parameters by assigning weights for checking answers. With the proposed system, teacher's time in checking and evaluating students output shall be lessened, thus, making the teacher more productive and easier.

Keywords : information extraction, short-answer question, natural language processing, application

Conference Title : ICSWNLP 2017 : International Conference on Semantic Web and Natural Language Processing

Conference Location : Paris, France

Conference Dates : March 29-30, 2017