Test report

# Preparation

There is a package named AutoTest in the GitHub path pathway-nlp/master branch/TestingNLP/src/AutoTest.

In order to run the Junit tests in the package making sure the project is download as a java project in Eclipse.

The Java would be JavaSE-1.8 and download these jars listed below:

* Download Stanford CoreNLP suite from the link: <http://nlp.stanford.edu/software/stanford-corenlp-full-2016-10-30.zip>

Add External jar files: slf4j-api.jar, slf4j-simple.jar, stanford-corenlp-3.6.0-javadoc.jar, stanford-corenlp-3.6.0-models.jar, stanford-corenlp-3.6.0-sources.jar, stanford-corenlp-3.6.0.jar.

* Download PDF box from the link:

<http://central.maven.org/maven2/org/apache/pdfbox/pdfbox-app/2.0.1/pdfbox-app-2.0.1.jar>

* Download SQL connector from the link:

<http://dev.mysql.com/get/Downloads/Connector-J/mysql-connector-java-5.1.40.zip>

and unzip the file and add: mysql-connector-java-5.1.40-bin.jar to the library

* Open the project Properties -> Java Build Path -> Add Library, add the Junit library; then Properties -> Java Build Path -> Add External JARs selecting those jar files that downloaded before.

# Testing

After all the jar files were prepared, directly Run the TestingNLP/src/AutoTest -> questionIdentifierTest.java to test the NLP question identification rate, it contains 100 sentences as a sample test and the last test result is 88% of all questions were correct identified.

Run TestingNLP/src/AutoTest -> textProcesserTest.java to test the IIES core processor which can report the rate of question transformation, it contained the same sample (100 sentences) with the NLP question identification rate test. The last test result is 71% of all extracted questions were correctly transformed into right questions.

Theoretically, the correct question transformation rate should not higher than the correct question identification rate.