disorder-normalizer

A sieve-based system for normalizing disorder mentions in biomedical data.

The disorder-normalizer tool has been written in Java and is released as free software.

You can find more explanation about our normalization system at the following webpage: $http://www.hlt.utdallas.edu/^jld082000/normalization/$

Usage:

1. If using the source code available in "src" folder. First, copy the "resources" folder into the "src" folder, then run the program as below.

An example execution using the "training", "test", and ontology "TERMINOLOGY.txt" files provided in the "ncbi-data" folder is shown below.

```
C:\disorder-normalizer\src>java tool.Main ..\ncbi-data\training\ ..\ncbi-data\test\ ..\ncbi-data\TERMINOLOGY.txt 10
```

2. If using the executable jar file "disorder-normalizer.jar". First, copy the "resources" folder into the same folder as the jar file, then run the program as show in example below.

```
C:\disorder-normalizer>java -jar disorder-normalizer.jar ..\ncbi-data\training\ ..\ncbi-data\test\ ..\ncbi-data\TERMINOLOGY.txt 10
```

Output:

On executing the program, a new folder called "output" will be automatically created in the same folder as the \<test-data-dir\> to which the result from normalizing the test mentions will be written. In addition, the system performance on normalizing the test disorder mentions will be printed to the terminal.

Please Note:

- In order to run the tool on new data, please ensure that your training, test, and terminology files are in the same format as the data provided in the "ncbi-data" folder.
- The training data files are used to train the normalizer. However, since disorder-normalizer is not a learning-based system, this folder can be empty.
- The tool will attempt to normalize the mentions in the test data folder files to the terminology.
- The TERMINOLOGY file is the ontology/knowledge-base used to which the test data mentions are normalized.

Detailed explanation about our normalization system can be found at the following webpage:

http://www.hlt.utdallas.edu/~jld082000/normalization/