BCH-NER: Biomedical, Chemical and Health Named Entity Recognition tool

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Introduction

Biomedical Named Entity Recognition(BioNER) is the first task in any Biomedical Text Mining(BioTM) tool. Further tasks such as relation extraction, biomedical question answering and intelligent document browsing depend on the performance on BioNER. In addition to the exponential growth of biomedical research articles available online, there are many issues which make BioNER interesting and challenging such as ambiguity, variations in Biomedical Named Entities (BioNEs), synonymy, abbreviations, multi-word BioNE, nested BioNEs and newly discovered BioNEs. Our intention is to build an efficient tool for BioNER, where the state of the art in biomedical domain is not sufficient as in newswire domain. The proposed tool should cover a wide range of Named Entities (NEs) such as biological NEs(genes, proteins, DNA,...), medical NEs(disease, treatment,..) and chemical NEs(drugs and chemical compounds). The proposed tool would be able to cover newly discovered entities in different domains.

Tool Description

Our tool would be available as web service tool. The input of the proposed tool either uploading abstract or full article or a text fragment written by a user. The output will be tagged text which contains the input text with annotation of different NEs.