Resource Summary Report

Generated by NIF on Apr 23, 2025

PIE the search

RRID:SCR_005296
Type: Tool

Proper Citation

PIE the search (RRID:SCR_005296)

Resource Information

URL: http://www.ncbi.nlm.nih.gov/CBBresearch/Wilbur/IRET/PIE/

Proper Citation: PIE the search (RRID:SCR_005296)

Description: A web service to extract Protein-protein interaction (PPI)-relevant articles from MEDLINE that provides protein interaction information (PPI) articles for biologists, baseline system performance for bio-text mining researchers and a compact PubMed-search environment for PubMed users. It accepts PubMed input formats including All Fields, Author, Journal, MeSH Terms, Publication Date, Title, and Title/Abstract with Boolean operations (AND, OR, and NOT). However, the output is the list of articles prioritized by PPI confidence rates. Some words (mostly gene/protein names) which contributed for PPI prediction are underlined and linked to Entrez or Entrez Gene. Even though our system focuses on a PubMed search environment, it also provides a CGI access for bio-text mining researchers. Using the CGI program, a list of PubMed IDs can be obtained as a query result, thus it can be utilized as a baseline system performance. PIE the search is based on a winning approach in the BioCreative III ACT competition (BC3)1. For input queries, MEDLINE articles are first retrieved through the PubMed service. PPI scores are calculated for the retrieved articles, and the articles are re-ranked based on scores. To effectively capture PPI patterns from biomedical literature, their approach utilizes both word and syntactic features for machine learning classifiers. Dependency parsing, gene mention tagging, and term-based features are utilized along with a Huber classifier.

Abbreviations: PIE

Synonyms: Protein Interaction information Extraction the search

Resource Type: database, data or information resource, service resource

Defining Citation: PMID:22199390, PMID:22151252

Keywords: protein interaction, protein-protein interaction, protein, interaction

Funding:

Resource Name: PIE the search

Resource ID: SCR_005296

Alternate IDs: OMICS_01191

Record Creation Time: 20220129T080229+0000

Record Last Update: 20250423T060226+0000

Ratings and Alerts

No rating or validation information has been found for PIE the search.

No alerts have been found for PIE the search.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Zeng Z, et al. (2015) Survey of Natural Language Processing Techniques in Bioinformatics. Computational and mathematical methods in medicine, 2015, 674296.