Biomed News – a free machine learning based platform to help discover and share new biomedical research literature

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- Biomed News website
  - https://biomed.news
- Twitter - @bims_biomednews
- Facebook - @biomednewsbims
- LinkedIn - Biomed News
- Mastodon - https://mstdn.science/@biomednews

ABSTRACT

Approximately 30,000 biomedical research abstracts are published each week on PubMed. This provides an enormous resource for new information that needs to be retrieved by individuals who desire access to it – researchers, industry, funders, policy makers, clinicians, patients, and the public. This enormous amount of information is retrieved using searches or tables of contents. However, these methods are overwhelming, broad and irrelevant. Biomed News is a free platform that provides a ranked abstract list on a weekly basis. Topic experts select abstracts relevant to their area of expertise. These selections are used by supervised machine learning to identify relevant papers in subsequent weekly issues. This reduces the amount of time required to identify new abstracts. Biomed News also provides an opportunity for selectors to share their weekly topic issues with other interested parties. Biomed News currently has around 90 experts from countries all over the world who are at different stages of their career. We aim for Biomed News to be a user-friendly platform in all areas of biomedical research that allows new abstracts to be identified and shared with interested parties.

INTRODUCTION

PROBLEM

- Searches are tedious and not specific.
- Existing artificial intelligence based current awareness is poor.

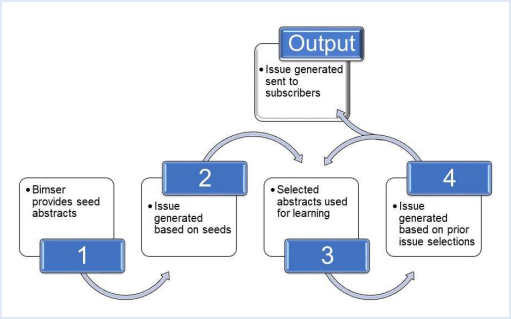
SOLUTION

- Replace searches by teaching through examples.
- Use human intelligence instead of artificial intelligence.

BIOMED NEWS REPORT SET UP

- At least 1 seed paper provided by new bimser.
- Individual details of bimser.

LINK TO SET UP A NEW REPORT.



WORKFLOW OF BIOMED NEWS MACHINE LEARNING

OUR MACHINE LEARNING

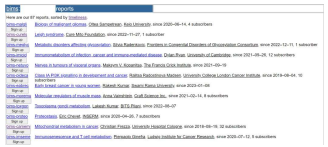
- Abstracts are searched for individual terms and phrases.
  - commonly used terms in abstract identified.
- Compared against a set of random papers.
  - identifies commonly used terms and phrases found in all abstracts.
- Teaches machine learning for next release.
- Positive abstract selections identify specific terms and phrases.
- Negative abstract selections identify irrelevant.
- Each abstract is scored using the positive and negative selections that is used for ranking.

WEEKLY ISSUES

The pick up screen with the ranked abstracts with most relevant abstracts displayed first.

- Bimsers receive an e-mail each week notifying the latest issue is available to work on.
- The list ranks the abstracts from that week according to relevance.
- Each Bimser selects the relevant abstracts from that issue.
- The issue is available and the Bimser can use this as they wish.

CURRENT REPORTS



LINK TO SIGN UP FOR E-MAIL ALERTS FOR EXISTING REPORTS.

TESTIMONIAL

Christian Frezza, the Alexander von Humboldt Professor of Metabolomics in Aging in Faculty of Medicine at the University of Cologne

As a scientist, being up to date with the literature is a must. Yet, the overwhelming number of papers and reviews on any given topics makes it very hard to stay on top of current works, and PubMed [searching] is no longer enough. Biomed News offers a unique opportunity to identify papers that match your exact needs using a dedicated machine-learning-based relevance order that is based on your scientific interest. What is even more exciting is that this algorithm improves every time you select new papers. Forget keywords, PubMed searches, and lengthy scrolling. Get Biomed News, select your relevant papers today!

BENEFITS OF A BEING A BIMSER

- keep up to date with your research field
- share your research interests with others
- recognition as an active contributor to your field

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