IDEAL 2018 – Special sesión

Intelligent techniques for the analysis of scientific articles and patents

Nowadays, the activities related with the research and development, produce a large amount of data and documents in form of publications, such as, papers, patents, doctoral theses, conference contributions, reports, etc. Moreover, the total volume of scientific and technological data available, is growing year by year. From a traditional point of view, the information used to be indexed in bibliographical databases (e.g., Web of Science, Scopus, etc.), patents databases. (e.g., European Patent Office, United States Patent and Trademark Office, etc.), or indeed in public or private repositories.

This large amount of digital scholarly and technological data offers great opportunities to explore and analyze the patterns and trends that characterize the structure and evolution of science. That, the Science of Science is focused in the analysis of the research output combining computational and social scientists.

Objectives and Scope

The main aim of this special issue is to put the focus on the application of intelligent techniques based on artificial intelligence, complex systems, data mining and information retrieval in order to extract the hidden knowledge within the research activities, and track patterns and trends.

Potential topics of interest include but are not limited to:

- Communities discovery and clustering algorithms
- Entity disambiguation
- Scientific sentiment analysis
- Citation and impact prediction
- Information retrieval systems for bibliographic and patent data
- New model representation

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