

Project Management within Economic Intelligence: Diagnostic Tool for nanometrology cluster

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In a first study, we used NooJ to bridge the gap between research laboratories with industry in the field of nanoscience and nanotechnology. We tried to answer to two main questions : (i) " What are the reasons for which the respondent has joined the Club nanometrology ?, (ii) " What specifically are you awaiting from such a collaborative structure ? ". At the end of the processing and analysis of the questionnaire concerned a hundred respondents.

These results highlight the need for a Community Management activity . The advantage of this practice enhances proactive actors [Lambert and Sidhom , 10] and their cohesion for the emergence of new offers nano ventures .

Following this study, we focused on the analysis summarized a bibliographic corpus spintronics . This extraction has shed light on the evolution of the field. Which technologies are more persistant than others ? Is there often emergence of new technologies ? Can we measure the stability of the domain in a given period ?

For this purpose, a domain ontology of spintronics was specifically created. Thus, over forty concepts were interconnected with basic relations (IsA , belongsTo , etc.). This ontology was then implemented into a NooJ dictionary. Besides the nature of the word each entry of this new dictionary, we add several ontological labels permitting us to tag texts with concepts.

The output allows to ensure : (i) reindexation content and (ii) data visualization to detect the most frequent topic used in the corpus.

For this first step, relations have not been treated in this work which focused only on the detection of concepts of spintronics.

This approach could open more widely on the different fields of nanotechnology to highlight which areas of nanoscience and nanotechnology are the most promising for innovation and transferability.

Mots-clés :

Automatic indexation, cognitive observations, knowledge management, semantic filtering, Natural Language Processing (NLP), Content Reindexation, Community Manager, nanosciences, Information Design, opinion survey.

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