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COST STSM Reference Number: COST-STSM-CA15137-35406

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STSM type: Regular (from Croatia to Belgium)

STSM Applicant: Dr Jadranka Stojanovski, University of Zadar, Zadrar (HR), jadranka.stojanovski@irb.hr

STSM Topic: The development of the research according national and regional bibliographies

Host: Raf Guns, University of Antwerp, 2000 Antwerpen (BE), raf.guns@uantwerpen.be

Budget Request: Year-2017

Travel	400 Euro
Subsistence (hotel/meals)	1820 Euro
Total	2220 Euro

Short CV:

I hold master's degree in physics and masters and doctoral degree in information sciences. Currently I am assistant professor at University of Zadar. Also I successfully proposed, created and managed information systems on research in Croatia like Croatian Scientific Bibliography CROSBI (<http://bib.irb.hr>), HR?AK portal for Croatian open access journals (<http://hrcak.srce.hr>), Who's Who in Science in Croatia (<http://tkojetko.irb.hr>), ŠESTAR - repository of scientific equipment (<http://sestar.irb.hr>), and others. The most relevant information systems for ENRESSH COST Action are Croatian Scientific Bibliography CROSBI, which collect comprehensive data about scientific productivity of Croatian researchers and offers the data about more than 500.000 papers with 30.000 full-text papers in addition, which will be used for this study, and HR?AK repository with more than 400 Croatian Open Access journals from all scientific disciplines.

Work Plan Summary:

Titles and abstracts of scientific papers convey crucial topics of the articles to readers, reviewers or editors, and give a very compact summary of the publication. They can be analysed to gain insights into the current and past interests and trends of scientific work in different fields. Our goal is to identify common topics from different SSH disciplines in order to gain insight into recent research in Croatia and Flanders in Belgium. Two primary research questions are: (i) is there the difference between research topics from specific disciplines of Croatian and Flanders researchers, and (ii) can the word clusters gained from the topics of the research in the specific disciplines be compared with the popular taxonomies?

In our study, we analyse the titles and abstracts of the scientific papers published by Croatian scientists covering specific SSH disciplines. Croatian Scientific Bibliography (CROSBI) and VABB-SHW provided the data for the purpose of our study. The structure of the database and rich set of metadata for every publication type makes CROSBI and VABB-SHW bibliographies suitable for many purposes, including different types of content analysis. For the purpose of this study we examine the titles and abstracts of scientific papers published during the period from 2005 to 2015.

We will identify the most frequently occurring words and phrases. Stop words and non-specific words will be treated by using the usual practice of excluding them from the further analysis. The titles and abstracts of scientific articles will be analysed by using few methods of content analysis to fulfill the goals of our study. First, we are going to use relative word frequency with the goal to describe the distribution of term occurrences across the titles of the scientific papers. Second, we are going to use co-word analysis and hierarchical clustering to determine clusters of closely related terms appearing in the titles of the scientific papers. Our results will be compared with the results from the random sample of the titles from Library, Information Science & Technology Abstracts (LISTA) database for library and information science (LIS) discipline as well as with different controlled vocabularies, thesaurus and ontologies available for other SSH disciplines.

I request the approval of a COST Short Term Scientific Mission as described above

Applicant:

Dr Jadranka Stojanovski

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