

Analyzing the research output presented at European Networked Knowledge Organization Systems workshops (2000-2015)

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Abstract. In this paper we analyse a major part of the research output of the Networked Knowledge Organization Systems (NKOS) community in the period 2000 to 2015. We focus on the paper output presented at the European NKOS workshops in the last 15 years. Our open dataset "the NKOS bibliography" includes 14 workshop programmes (ECDL 2000-2010, TPDL 2011-2015) and 4 special issues on NKOS (2001, 2004, 2006 and 2015) which cover in total n papers with n single authors. A focus of the analysis is the development of collaboration, core authors and topics in this interdisciplinary field.

Keywords: NKOS workshops, Special issues, Output analysis, Network analysis, Central authors, Collaboration

1 Introduction

The European NKOS network has held a long-running series of annual workshops at the European Conference on Digital Libraries (ECDL), latterly reformed as the International Conference on Theory and Practice of Digital Libraries (TPDL). Typically, recent advances of KOS have been reported at the NKOS workshops, e.g. including the Simple Knowledge Organization System (SKOS) W3C standard, the ISO 25964 thesauri standard, the CIDOC Conceptual Reference Model (CRM), Linked Data applications, KOS-based recommender systems, KOS mapping techniques, KOS registries and metadata, social tagging, user-centred issues, and many other topics. A comprehensive and well cited review article on KOS was published in 2004 [2]. Special issues on Networked Knowledge Organization Systems (NKOS) have been published in Journal of Digital Information in 2001 and 2004, in New Review of Hypermedia and Multimedia in 2006 and in the International Journal of Digital Libraries in 2015 [1].

The motivation of this paper is to analyse the research output of the NKOS community. We are focusing on the informal part of this output, the presentations given the workshops. The specialty of this output is that these research

papers typically are not published in journals or conference proceedings, these papers appear just as oral presentations at the workshop and are documented on the website. To our knowledge nobody has done an analysis on this part of the research output before.

2 NKOS workshop bibliography

For our analysis we have compiled an open dataset the "NKOS bibliography"¹ which includes 14 workshop programmes with all presented papers at ECDL 2000, 2003-2010 and TPDL 2011-2015. We added papers from 4 special issues on NKOS which have been published in the same period.

In a first step we have extracted all paper titles presented at the NKOS workshop websites. We manually disambiguated author names. We added the papers from the special issues. These paper are the only formal publications in our analysis.

Our dataset covers in total n papers with n single authors.

Table provides an overview of all workshop papers.

venue	papers	authors
ECDL 2000		
ECDL 2003		
ECDL 2004		
ECDL 2005		
ECDL 2006		
ECDL 2007		
ECDL 2008		
ECDL 2009		
ECDL 2010		
TPDL 2011		
TPDL 2012		
TPDL 2013		
TPDL 2014		
TPDL 2015		

Table provides an overview of all papers in the special issues.

venue	papers	authors
SI 2001		
ECDL 2004		
ECDL 2006		
ECDL 2015		

3 Analysis

Description of the types of analyses

¹ The NKOS workshop bibliography is maintained in the following github repository:
<https://github.com/PhilippMayr/NKOS-bibliography>

4 Results

Describing the results

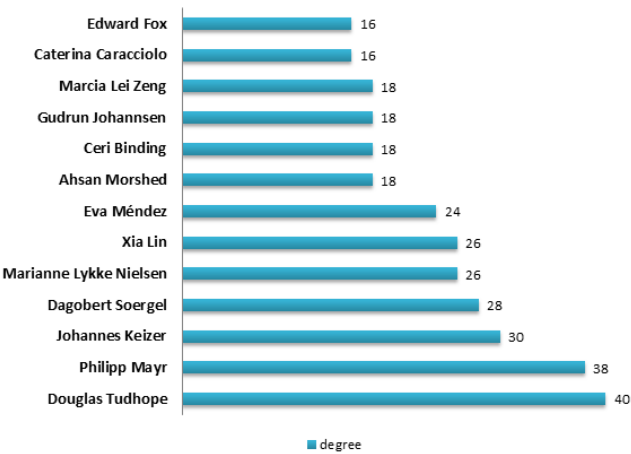


Fig. 1.

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5 Conclusion

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6 Acknowledgment

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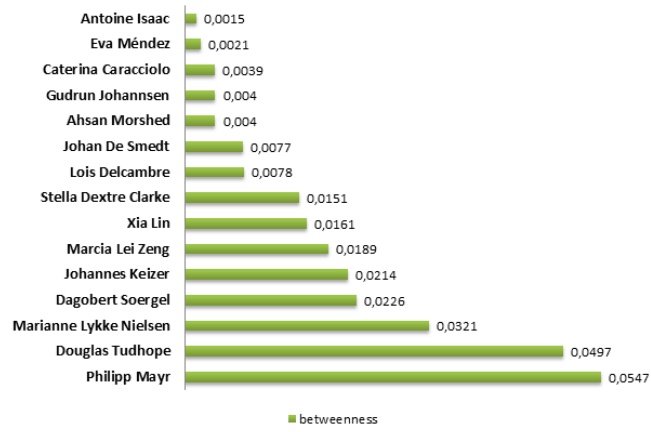


Fig. 2.

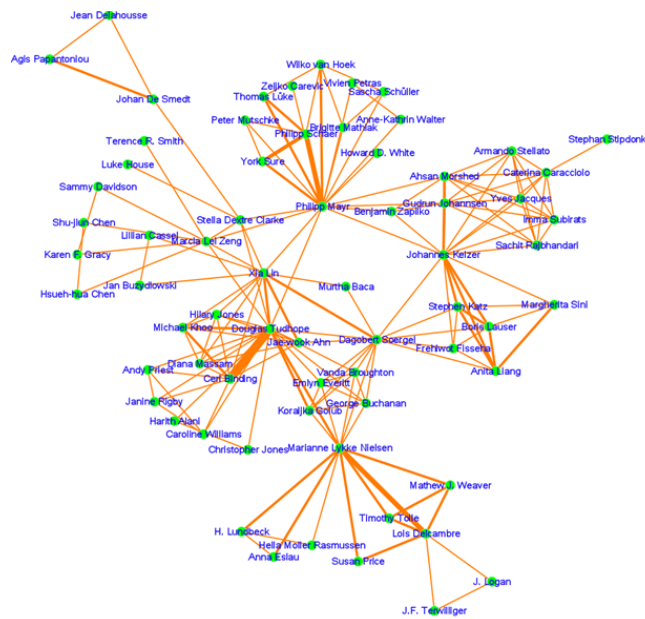


Fig. 3.

References

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2. Zeng, M.L., Chan, L.M.: Trends and Issues in Establishing Interoperability Among Knowledge Organization Systems. *Journal of the American Society for Information Science and Technology* 55(3), 377–395 (2004)