Preface of the 18th European Networked Knowledge Organization Systems Workshop (NKOS 2018)

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1 Introduction

This preface describes the workshop outline and overview of presented papers at the 18th European Networked Knowledge Organization Systems Workshop (NKOS 2018)⁷ which was held during the joint DCMI 2018 and TPDL 2018 Conference in Porto, Portugal. This workshop builds on the well-attended NKOS workshops at previous ECDL, TPDL, JCDL conferences (see NKOS website⁸ for details).

Knowledge Organization Systems (KOS), in the form of classification systems, thesauri, lexical databases, ontologies, and taxonomies, play a crucial role in digital information management and applications generally. Carrying semantics in a well-controlled and documented way, Knowledge Organization Systems serve a variety of important functions: tools for representation and indexing of information and documents, knowledge-based support for information searchers, semantic road maps to domains and disciplines, communication tools by providing a conceptual framework, and the conceptual basis for knowledge based systems, e.g. automated classification systems. New networked KOS (NKOS) services and applications are emerging, and we have reached a stage where many

⁷ https://at-web1.comp.glam.ac.uk/pages/research/hypermedia/nkos/ nkos2018/

⁸ http://hypermedia.research.southwales.ac.uk/kos/nkos/

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KOS standards exist and the integration of linked services is no longer just a future scenario [2].

2 Workshop outline

As with the previous workshops, the workshop at TPDL 2018 has three themes as the main focus, together with topical presentations arising from the workshop call for papers⁹.

- 1. Alignment/enrichment of metadata to existing KOS Linked Open Data. Recent years have seen an increasing trend to publication of KOS as Linked Data vocabularies. We need discussion of relevant issues and examples of KOS-driven metadata enrichment for a variety of data collection providers, including libraries, archives, museums, publishers, government agencies, international organizations, and also commercial organizations.
- 2. KOS alignment/interoperability. KOS alignment or terminology mapping has been playing a vital role in NKOS for many years. We continue this theme with discussion of specific case studies.
- 3. Automatic KOS-based subject indexing / classification /entity-extracting is a classic KOS topic which has seen renewed interest regarding evaluation methodologies.

3 Overview of the papers

The workshop featured an introduction and three paper sessions. The NKOS organizers have accepted seven regular papers and two invited reports for presentation. All regular papers are included in the CEUR workshop proceedings. In the following we shortly list each workshop paper.

- Automatic Classification Using DDC on the Swedish Union Catalogue. Koraljka Golub, Johan Hagelbäck and Anders Ardö
- Automated KOS-based Subject Indexing in INIS.
- Zaven Hakopov, Dmitry Mironov, Dobrica Savic and Yulia Svetashova - Knowledge Node and Relation Detection.
- Jian Qin, Bei Yu and Liya Wang
- Traveling through Space and Time, or: Making Historical Travelogues Accessible.
- Jan Rörden, Bernhard Haslhofer, Rainer Simon and Sven Schlarb
- Reflections on KOS based data alignment.
 Douglas Tudhope and Ceri Binding
- Full of beans: a study on the alignment of two flowering plants classification systems.
 - Yi-Yun Cheng and Bertram Ludaescher

⁹ https://at-web1.comp.glam.ac.uk/pages/research/hypermedia/nkos/ nkos2018/call-for-papers.html

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 Cleaning up a legacy thesaurus to make it fit for transformation into a Semantic Web KOS.
 Anna Kasprzik

The workshop features two invited reports which are not included in the proceedings. The invited presentation by Marcia Zeng and Philipp Mayr will give insights on two recently published papers by the authors in the International Journal on Digital Libraries [3, 1].

- LOD KOS interoperability and NKOS network structure analyses. Marcia Zeng and Philipp Mayr
- Report on KOS developments from USA and Asia/Pacific communities.
 Joseph Busch and Marcia Zeng

4 Acknowledgment

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