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Knowledge Organization across Disciplines, Domains, Services, and Technologies

Proceedings of the
Seventeenth International ISKO Conference 6–8 July 2022
Aalborg, Denmark

Organized by
the International Society for
Knowledge Organization (ISKO),
Marianne Lykke, Tanja Svarre,
David Haynes, Mette Skov,
Martin Thellefsen,
and Daniel Martínez-Ávila

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Introduction

The 17th International ISKO conference, under the theme *Knowledge Organization across Disciplines, Domains, Services and Technologies* takes place from the 6.–8. July 2022 at Aalborg University, Department of Communication and Psychology, Aalborg, Denmark.

The conference theme examines differences and challenges that characterize the application of knowledge organization principles and systems in different disciplines, services, and domains, including how technologies affect and provide different opportunities. The conference invited contributions with practical, applied solutions as well as theoretical frameworks and concepts behind the design, development and implementation of knowledge organizing systems, ranging from controlled vocabularies, classification systems, metadata schemas through to ontologies and taxonomies.

The conference topics included:

- Knowledge organization across domains, media, and technologies
- Connections of knowledge organization to cognate fields such as museology, artificial intelligence, and philosophy
- Knowledge organization as a driver for development and change

Full papers, short papers, posters, round table discussion, and workshops were welcomed. The conference call invited KO academics, practitioners, developers and students of innovative ideas and solutions to submit proposals for consideration. Criteria for acceptance included originality, clarity of expression, and relevance to the conference theme. Proposals should have a sound basis in KO theory, be previously unpublished research and not under review for another conference or journal.

Anonymized full paper, short paper and poster submissions were double-blind reviewed. Submissions for round table discussions and workshops were single-blind reviewed, and should not be anonymized. All accepted papers are published in the conference proceedings.

Accepted papers

During the review process a total of 23 full papers, 6 short papers and 3 posters were accepted for publication and presentation at the conference. The papers covered three fundamental themes within knowledge organization:

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theoretical foundation and concepts, application of knowledge organization in different fields, and development and design of knowledge organization systems. A wide range of topics were discussed, i.e., theoretical discussions of the notions of domain, control and impartiality and cultural, historical, and academic warrant. Concerning application, the discussions dealt with knowledge organization within disciplines such as art, music, fiction, and geoscience, just as the application within newer media such as tweets and fake news was discussed. A set of papers presented work on the development of taxonomies, thesaurus, ontologies, and Library of Congress subject headings. Within development of methodology, there was a focus on computer-based methods, i.e., visual object recognition, machine translation and natural language processing. In addition, communities of practices were presented as a domain analytical approach as well as other user-centered approaches.

Scholars from 15 countries from all over the world contributed to the conference proceedings. The papers are organized in full papers, short papers, and posters and within this organization alphabetically by first author.

We would like to thank to those who helped make this publication possible. We are very grateful to the scholars who submitted and contributed with excellent papers as well as to the reviewers who made their effort to review and suggest improvements to the submissions.

Aalborg, 9. May, 2022

Marianne Lykke, Tanja Svarre, Mette Skov, Daniel Martínez-Ávila,
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