



CALL FOR PAPERS
International UDC Seminar 2011:
Classification & Ontology - Formal Approaches and Access to Knowledge

DATE: 19-20 September 2011
VENUE: The National Library of The Netherlands (Koninklijke Bibliotheek)
Prins Willem-Alexanderhof 5
2595 BE Den Haag
The Netherlands
WEBSITE: <http://seminar.udcc.org/2011/>
CONTACT: seminar2011@udcc.org
LANGUAGE: English

Around the world published material is organized by intellectually designed knowledge classifications, also known as bibliographic or documentary classifications. They are used for information organization and retrieval. In the field of artificial intelligence (AI), knowledge classifications offer the potential to represent, formalise and model a view of a world. These knowledge frameworks, known as ontologies, use formal logic and inference rules to support complex computer tasks.

The difference between bibliographic classifications and ontologies resides in their particular purpose and levels of formality. However, they are both based on observation and reasoning and share some structural principles and elements: categories, concepts, properties, class relationships, roles.

In principle, automatic processing of knowledge classifications is significant whenever there is a need to support intuitive services. Most importantly, ontology-like representations of classifications are recognized as potentially important facilitators in creating a web of linked data (the semantic web).

A fundamental issue for classification used in information retrieval is not only machine readability of classification structures but also making the richness of their semantic relationships understandable and usable by programs. Bibliographic classifications contain a variety of relationships (coordinated, subordinated, superordinated, collateral and ordered) between concepts and rules for their use, representation, combination and access.

The objective of this conference is to promote collaboration and exchange of expertise between the bibliographic, the semantic web and the AI domains. We hope to learn more about methods in ontology modelling and whether these may be used to improve and formalise the data models of bibliographic classifications and enhance their value in information discovery.

We are inviting instructive and insightful overviews and innovative and high quality research contributions towards enhancing knowledge of modelling, management and use of bibliographic knowledge classifications in the networked environment.

Papers are now invited covering the following topics:

1. Modelling and representation of knowledge classifications
Scope: *Underlying principles of classifications; different approaches to defining and modelling concepts and concept categories, facets, classes, properties, relationships (paradigmatic and syntagmatic), roles; issues with rules building complex expressions.*
2. Standards and solutions for innovative and high-quality classification data processing
Scope: *Data formats, formal languages and tools for representing classificatory structures.*
3. Applications and implementations of classification structures as ontologies
Scope: *Practical solutions, use, implementation; comparison and analysis of the functionality of knowledge classification structures.*
4. Theoretical considerations of the role of knowledge classifications
Scope: *The point of view of information retrieval, knowledge-based systems and the web of linked data (semantic web).*

The proposals should be of interest to academic and research communities dealing with conceptual modelling, information systems design, knowledge engineering, semantic interoperability & information integration, and natural-language processing.

CONTRIBUTIONS:

Contributions may include conference papers and posters. Authors should submit a proposal in the form of an extended abstract (1000-1200 words including references, for papers, and 500-600 words for posters). The submission form is provided on the conference website:

<http://seminar.udcc.org/2011/php/abstractsubmissions.php>.

Proposals will be reviewed by the Programme Committee consisting of an international panel of experts. Each submission will undergo a blind review by at least three reviewers. Authors of selected papers will be required to submit their final papers by 1 April 2011.

Conference proceedings will be published by Ergon Verlag and will be distributed at the conference.

IMPORTANT DATES: 30 Jan 2011 Paper proposal submission deadline
28 Feb 2011 Notification of acceptance
01 Apr 2011 Paper submission

ORGANIZER: Classification & Ontology is the third biennial conference in a series of UDC Seminars organized by the Universal Decimal Classification Consortium (UDC Consortium) and hosted by Koninklijke Bibliotheek (The National Library of Netherlands). UDCC is a not-for-profit organization, based in The Hague, established to maintain and distribute the UDC and to support its use and development. UDC is one of the most widely used knowledge organization systems in the bibliographic domain.