KNOWLEDGE ORGANIZATION

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Devoted to Concept Theory,
Classification, Indexing,
and Knowledge Representation

Faceted Classification: A Consideration of its Features as a Paradigm of Knowledge Organization

Identification of Main Concepts used in Sociology and their Categorization

Core International Journals of Classification Systems: An Application of Bradford's Law

The Peculiarities of the Functioning of Terms in a Text

A Conceptual Model for Supporting Collaborative Authoring and Reuse

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Pathak, L.P., Binwal, J.C.:
Identification of main concepts used in sociology and their categorization
Knowl.Org. 21(1994)No.2, p.69-74 , 9 refs.
Reports on the findings of a study conducted to identify the main concepts used in sociology according to their relative significance. A sample of 87 introductory textbooks of sociology was considered, chapter headings used in them were classified and 100 main concepts were identified. A scheme for their arrangement was suggested using 10 major categories. In order to compare the relative significance of each concept for use in the retrieval tools as headings, a proportion of a book used for a concept by all the authors in these books was added. This cumulative proportion has been termed the 'relative weight of a concept', which made it possible to arrange all the 100 concepts into three 'levels of significance categories'. Thus, 44 concepts have been identified as most significant concepts, 26 in the second level of significance, and 30 in the last category of relative significance, only for use as headings in the bibliographical information retrieval tools pertaining to sociology. The study concludes in that no bibliographic information storage and retrieval tool in the field of sociology can justify non-inclusion as main headings, the most significant concepts identified, that appear in the first category of relative significance, as these seem to represent the core of the discipline. (Authors)

Chen, Ch., Rada, R.: **A conceptual model for supporting collaborative authoring and reuse.**
Knowl.Org. 21(1994)No.2, p.88-93, 12 refs.
This paper discusses some problems encountered in hypermedia-based collaboration and reuse, and presents a conceptual framework to resolve these problems. Three suggestions are made based on the discussion: 1) extra organizational structures are necessary in shared hypermedia to support collaborative interactions; 2) an abstract schema is a key to capture the dynamic nature of the shared hypermedia; 3) an integration of the schema evolution approach and the workflow approach is recommended for an open system hypermedia teamwork support. The whole authoring environment is divided into several component spaces with particular respect to the Dexter Hypertext Reference Model. Not only can this separation reduce the overall complexity of working within such an environment, but it also conforms more closely with human cognitive needs in collaborative authoring and reuse activities. (Author)

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Xiao, Y,: **Faceted classification: A consideration of its features as a paradigm of knowledge organization.**
Knowl.Org. 21(1994)No.2, p.64-68, 11 refs.
From the viewpoint of the Kuhnian scientific revolution, paradigms of knowledge organization are examined. As an influential achievement, Faceted Classification is qualified as a paradigm today and tomorrow. Three features of the paradigm, i.e. features in theory, cognition, and methodology, are described, along with a critical overview of research and practice in our field. (Author)

Chung, Y.-K.: **Core international journals of classification systems: An application of Bradford's Law**
Knowl.Org. 21(1994)No.2, p.75-83, 33 refs.
By analyzing the source documents and their references by classification systems researchers in the world, this paper presents core journals of the field during the period 1981-1990. The findings show that journal literature in this study confirms to Bradford's law and provides *Cataloging & Classification Quarterly (CCQ)* as the most productive journal, *Library Resources & Technical Services (LRTS)* as the most frequently cited journal of the field and *Knowledge Organization (KO)*, formally *International Classification (IC)* as the second productive and frequently cited journal of the field. The principal journals publishing source items differs from those used as reference sources of the field. The high-ranked international journals over the years are clearly those to be acquired to obtain the greatest coverage of the field for the least cost. (Author)

Lejchik, V.M.: **The peculiarities of the functioning of terms in a text.**
Knowl.Org. 21(1994)No.2, p.84-87, 28 refs.
The typology of texts in which terms are functioning has been developed. This typology includes texts using terms, texts fixing them, and as well as texts in which terms appear for the first time. The characteristics of such texts are enumerated: coherency, communicative address, etc. Two approaches to studying terms are described: 1. from term to the text, 2. from text to the term. (Author)

Beilagenhinweis: In einigen Heften liegt das Programm bei der Konferenz über "Environmental Knowledge Organization"

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Scope

The more scientific data are generated in the impetuous present times, the more ordering energy needs to be expended to contol these data in a retrievable fashion. With the abundance of knowledge now available the questions of new solutions to the ordering problem and thus of improved classification systems, methods and procedures have acquired unforeseen significance. For many years now they have been in the focus of interest of information scientists the world over.
Until recently, the special literature relevant to classification was published in piecemeal fashion, scattered over the numerous technical journals serving the experts of the various fields, such as

philosophy and science of science
science policy and science organization
mathematics, statistics, and computer science
library and information science
archivistics and museology
journalism and communication science
industrial products and commodity science
terminology, lexicography and linguistics

Beginning 1974, KNOWLEDGE ORGANIZATION (formerly INTERNATIONAL CLASSIFICATION) has been serving as a common platform for the discussion of both theoretical background questions and practical application problems in many areas of concern. In each issue experts from many countries comment on questions of an adequate structuring and construction of ordering systems and on the problems of their use in opening the information contents of new literature, of data collections and survey, of tabular works and of other objects of scientific interest.
Their contributions have been concerned with

(1) clarifying the theoretical foundations (general ordering theory, science theoretical bases of classification, data analysis and reduction)
(2) describing practical operations connected with numerical taxonomy/ classification, as well as applications of classification systems and thesauri, manual and machine indexing
(3) tracing the history of classification knowledge and methodology
(4) discussing questions of education and training in classification
(5) concerning themselves with the problems of terminology in general and with respect to special fields.

Aims

Thus, KNOWLEDGE ORGANIZATION is meant to be a programme for the improvement of classification methods and processes, a forum for discussion for all those interested in the organization of knowledge on a universal or a subject-field scale, using concept analytical and/or concept-synthetical approaches as well as numerical procedures and comprising also the intellectual and automatic compilation and use of classification systems and thesauri in all fields of knowledge, with special attention being given to the problems of terminology.

KNOWLEDGE ORGANIZATION publishes original articles, reports on conferences and similar communications, the Newsletters of the International Society for Knowledge Organization (ISKO News) and the Committee on Classification Research of the International Federation for Information and Documentation (FID/CR News) as well as book reviews, letters to the editor, and an extensive annotated bibliography of recent classification and indexing literature, covering now some 500 items in each issue.

KNOWLEDGE ORGANIZATION should therefore be available at every university and research library of every country, at every information center, at colleges and schools of library and information science, in the hands of everybody interested in the fields mentioned above and thus also at every office for updating information on any topic related to the problems of order in our information-flooded times.

KNOWLEDGE ORGANIZATION was founded in 1973 by an international group of scholars with a consulting board of editors representing the world's regions, the special classification fields, and the subject areas involved. From 1974-1980 IC was published by K.G.Saur Verlag, München. Back issues of 1978-1990 are available from INDEKS Verlag, too. (The 14 volumes of 1978-1991 are offered now at the highly reduced price of DM 400.-).

As of 1989, KNOWLEDGE ORGANIZATION has become the official organ of the INTERNATIONAL SOCIETY FOR KNOWLEDGE ORGANIZATION (ISKO) and is included for every ISKO-member, personal or institutional in the membership fee (DM 60.-/DM120.-).

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References should be listed at the end of the paper with the numbers in brackets referring to such numbers in brackets within the text part.
Additional notes should be indicated in the text by lifted single numbers behind a word and equally collected with their texts at the end of the paper under the heading *Notes*.
Journal References should contain the names and initials of all authors, full titles of the publication, abbreviation of the journal according to the ISO Standard 4, volume number, year of publication in brackets, issue number and first and last page numbers. *Monograph References* should give the name(s) of the author(s), full title, edition, place of publication, publisher, year and the number of pages.
Examples: Brandhorst, J.P.J.: Quantifiability in iconography. Knowl.Org. 20(1993)No.1, p.12-19, 11 refs.
Hunter, E.J.: Classification made simple. Aldershot, GB: Gower 1988. 115p.
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