



KNOWLEDGE ORGANIZATION

INTERNATIONAL CLASSIFICATION

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

To What End Knowledge Organization?

**Systems Modeling for Classification:
The Quest for Self-Organization**

**A Dialogic Networking Approach to
Information Retrieval**

Book Indexing

The Power of Ignorance

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Vol. 21(1994) No. 1

Jaenecke, P.: **To what end knowledge organization?**

Knowl. Org. 21(1994) No. 1, p. 3-11, 5 refs.

This paper is put up for discussion to help Knowledge Organization find its proper place. To begin with, a few basic concepts from the field of communication theory are defined. The new concepts permit the conclusion that what we are facing at present is not a flood of information but one of messages, and that this latter flood must not be equated indiscriminately with a knowledge flood. Messages must be judged on their contents. To this end, 'knowledge' is subdivided into 'core-', 'peripheral', and 'pseudo-knowledge', and it is argued that the great majority of scientific publications contains peripheral and pseudoknowledge. With the aid of two interlocking and self-amplifying recursive mechanisms it is shown that and how pseudoknowledge is more and more gaining ground, particularly outside the mathematical and scientific disciplines, hence precisely in those fields which deal with social problems in the broadest sense of the word. Thus a deficit of knowledge on which to base action is produced, leading to a general disorientation - a modern form of ignorance, keenly manifesting itself at present in a crisis of leadership. The research tasks resulting from the above for Knowledge Organization are roughly outlined.

(Author)

Löckenhoff, H.: **Systems modeling for classification: The quest for self-organization.**

Knowl. Org. 21(1994) No. 1, p. 12-23, 34 refs.

The necessity and value of models shaped in the human mind in order to support understanding, activities and their control are outlined and mapped with respect to their function in knowledge organization and representation. Advanced understanding of modeling appears as a challenge and chance for the future design of dynamic, learning classification systems, evolving together with the systems they represent, as well as with their environment and their users.

(KO)

Smirensky, V. B.: **The power of ignorance.**

Knowl. Org. 20(1993) No. 4, p. 32

Interrelations of knowledge and ignorance are considered in connection with problems of classification, increase of parascientific investigations and incomplete world pictures. The tension between knowledge and ignorance can never be overcome, because knowledge is secondary, relative, particular and finite, while ignorance is primary, whole, absolute, and infinite.

(Author)

Zelger, J.: **A dialogic networking approach to information retrieval.**

Knowl. Org. 21(1994) No. 1, p. 24-28, 5 refs.

The user of documents, e.g. of a library, faces the task of exploring the data fundus and of selecting information according to his actual intentions. He even may find or happen to find new aspects and, following these, will further develop his original quest. How can the user be supported by PC-based procedures? Recently at the Institute of Philosophy, University of Innsbruck/Austria, the GABEK method (*Ganzheitliche Bewältigung sprachlich erfaßter Komplexität*) was developed. It has proved useful so far in similar cases of ordering and/or retrieving information; especially to build hidden order structures and to incorporate them into information processing and storage facilities. It seems that the GABEK method might be applied successfully also to the user problem as mentioned above. To clarify his quest the user relies on a database₁. This base contains experiences of previous users, which are expressed in natural language sentences. Through a PC-supported dialogue₂, founded on database₁, the user elaborates a more detailed concept of his own topic. This concept later is termed a "linguistic gestalt", if it fulfils certain conditions. The linguistic gestalt may include 3 to 10 sentences in natural language, which specify the user's original intentions. The key terms contained in this linguistic gestalt will, in a dialogue₂, be employed to retrieve relevant information from database₂. Database₂ represents the information system, e.g. a library. The procedures as indicated above and the building of linguistic gestalts can be effected by GABEK. Small quantities of data provided, the WINRELIAN program (1993) may be used.

(Author)

Fugmann, R.: **Book indexing: the classificatory approach.**

Knowl. Org. 21(1994) No. 1, p. 29-31

The contents of scientific and technical handbooks often needs fast, reliable and precise subject access, even if the searcher is not familiar with the terminology of the book and has not read it beforehand. This requires careful and expert subject indexing in a highly specific indexing vocabulary, as well as the presentation of the resulting index in a lucid, conceptually transparent manner in print and on disk. Index users, when looking up a general subject heading, often ignore the necessity of looking up the appertaining hierarchically subordinate, more specific subject headings, too. They are either not made aware of these subject headings or their use is felt to be too cumbersome. A classified approach to computerized subject indexing is described which resembles Ranganathan's Classified Catalogue. Through a variety of peculiarities it leads the searcher rapidly and easily to all subject headings related to a primarily chosen one, and to the postings under all these headings.

(Author)

Scope

The more scientific data are generated in the impetuous present times, the more ordering energy needs to be expended to control 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.

Instructions for Authors

Manuscripts may be submitted in either English, German or French to the editor-in-chief in two sets (the original and one copy) typed in double space, comprising between 1500 to 3000 words. They should be accompanied by an English indicative abstract of 100-200 words. The contributions are refereed.

Criteria for acceptance will be appropriateness to the field of the journal (see Scope and Aims) taking into account the merit of the content and its presentation. Papers are accepted with the understanding that they have not been published, submitted or accepted for publication elsewhere and that, if the work received official sponsorship, it has been duly released for publication. Authors will usually be notified within 6 to 10 weeks. Unless specifically requested, manuscripts or illustrations will not be returned.

The text of the contributions should be structured by subheadings; it should contain (a) an introduction, stating the purpose, (b) a description of materials and methods in sufficient detail, (c) information on results or systems developed, and (d) a conclusion on and/or summarization.

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*.

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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-synthetic 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.

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