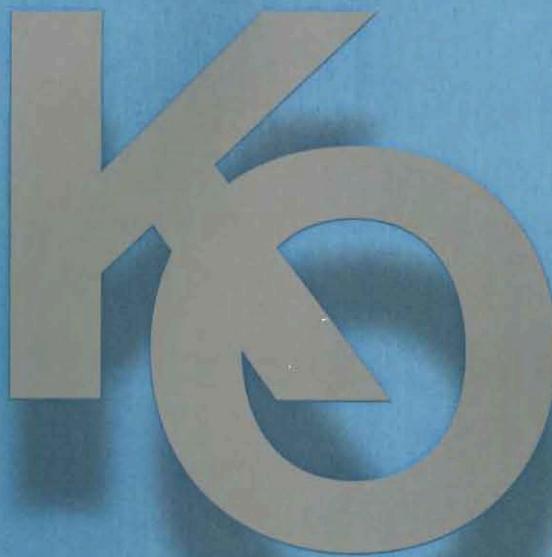


# *Knowledge Organization*

*Formerly International Classification*

**International Journal**

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



**Vol. 26 (1999) No. 4**

# KNOWLEDGE ORGANIZATION KO

Official Quarterly Journal of the International Society for Knowledge Organization    ISSN 0943 - 7444  
International Journal devoted to Concept Theory, Classification, Indexing and Knowledge Representation

---

## Contents

<b>Editorial .....</b>	191
<b>Classification System for Knowledge Organization Literature.....</b>	192
<b>Bibliography of 10 Years International Society for Knowledge Organization.....</b>	203
<b>Abbreviations used in the Bibliography of Ten Years International Society for Knowledge Organization.....</b>	253
<b>Author Index Bibliography of 10 Years International Society for Knowledge Organization .....</b>	256

# KO KNOWLEDGE ORGANIZATION

Official Quarterly Journal of the International Society for Knowledge Organization    ISSN 0943 - 7444  
International Journal devoted to Concept Theory, Classification, Indexing and Knowledge Representation

---

## Contents page

This contents page may be reproduced without charge.

# KNOWLEDGE ORGANIZATION

KO

Official Quarterly Journal of the International Society for Knowledge Organization    ISSN 0943 - 7444  
International Journal devoted to Concept Theory, Classification, Indexing and Knowledge Representation

## KNOWLEDGE ORGANIZATION

The journal is the organ of the INTERNATIONAL SOCIETY FOR KNOWLEDGE ORGANIZATION (General Secretariat: Drs Gerhard RIESTHUIS (Literature Editor), Liendenhof 60, NL-1108 HB Amsterdam, Netherlands)

### Editors

Prof. Clare BEGHTOL (Acting Editor-in-Chief), Faculty of Information Studies, University of Toronto, 140 St. George Street, Toronto, Ontario M5S 3GB, Canada.

E-mail: [begtol@fis.utoronto.ca](mailto:begtol@fis.utoronto.ca)

Dr. Michèle HUDON (Book Review Editor), School of Library and Information Science, University of Montréal, Québec, Canada

Jens-Erik MAI (News and Reports Editor), Royal School of Library and Information Science, Birketinget 6, 2300 Copenhagen, Denmark. E-mail: [jem@db.dk](mailto:jem@db.dk)

Alexander SIGEL (Assistant Editor, News and Reports), Informationszentrum Sozialwissenschaften, Lennéstr. 30, 53113 Bonn, Germany. Email: [sigel@bonn.iz-soz.de](mailto:sigel@bonn.iz-soz.de)

Elin JACOB (Assistant Editor, News and Reports), School of Library and Information Science, Indiana University, Bloomington, IN 47405-3907, USA

Dr. Gerhard RIESTHUIS (Literature Editor), Liendenhof 60, NL-1108 HB Amsterdam, Netherlands

Prof. Dr. Nancy WILLIAMSON (FID/CR News Editor), Faculty of Information Studies, University of Toronto, 140 St. George Street, Toronto, Ontario M5S 3G6 Canada

Hanne ALBRECHTSEN (Communications Editor), Risø National Laboratory, Roskilde, Denmark

E-mail: [hanne.albrechtsen@risoe.dk](mailto:hanne.albrechtsen@risoe.dk)

### Consulting Editors

Prof. Dr. Ulf G. BARANOW, Rua Ubaldino do Amaral 580, Apto. 51, BR-80060-190, Curitiba - PR, Brazil

Dr. Gerhard BUDIN, Dept. of Philosophy of Science, University of Vienna, Sensengasse 8, A-1090 Wien, Austria

Mr. Christian GALINSKI, Director: Infoterm, Simmeringer Hauptstr. 24, A-1110 Wien, Austria

Dr. Francisco Javier GARCIA MARCO, Area de Biblioteconomía y Documentación, Facultad de Filosofía y Letras, Universidad de Zaragoza, E-50.009 Zaragoza, Spain

Prof. Dr. Winfried GÖDERT, Vice-Dean: FH Köln, Claudiustr. 1, D-50678 Köln, Germany

Dr. M. A. GOPINATH, DRTC, Indian Statistical Inst., 8th Mile, Mysore Road, R.V. College P.O., Bangalore-560059, India

Dr. Rebecca GREEN, College of Information Studies, Hornbake Bldg. (So. Wing), Room 4105, University of Maryland, College Park, MD 20742-4345

Dr. Norbert HENRICHES, Im Luftfeld 80, D-40489 Düsseldorf, Germany

Dr. Roland HJERPPE, Dept. of Computer and Information Science, Linkping University, S-58183 Linkping, Sweden

Dr. Barbara H. KWASNIK, School of Information Studies, Syracuse University, 4-206 Ctr. for Science & Tech., Syracuse, NY 13244-4100

Dr. Jaques MANIEZ, 61 Rue de la Corve, F-21000 Dijon, France

Dr. Ia C. MCILWAINE, Director: School of Library, Archive & Information Studies, University College London, Gower Street, London, WC1E 6BT, U.K.

Dr. Francis MIKSA, Graduate School of Library and Information Science, University of Texas at Austin, SZB 564, Austin, TX 78712-1276

Ms. Joan S. MITCHELL, Editor: Dewey Decimal Classification, Library of Congress, Washington, D.C. 20540-4330

Dr. Giliola NEGRINI, Consiglio Nazionale della Ricerca, Ist. di Studi sulla Ricerca e Doc. Scientifica, Via Cesare De Lollis, 12, I-00185 Rome, Italy

Ms. Annelise Mark PEJTERSEN, Systems Analysis Dept., Risø National Laboratory, P.O. Box 49, DK-4000 Roskilde, Denmark

Dr. Stephen A. POLLITT, CeDAR Centre for Database Access Research, School of Computing & Mathematics, The University of Huddersfield, Queensgate, Huddersfield HD1 3DH, U.K.

Dr. M. P. SATIJA, Guru Nanak Dev University, School of Library and Information Science, Amritsar-143 005, India

Dr. Jos SCHREINEMAKERS, Erasmus University Rotterdam, PO Box 1738, 3000 DR Rotterdam, Netherlands

Dr. Otto SECHSER, In der Ey 37, CH-8047 Zürich, Switzerland

Dr. Dagobert SOERGEL, College of Information Studies, Hornbake Bldg. (So. Wing), Room 4105, University of Maryland, College Park, MD 20742

Dr. Eduard R. SUKIASYAN, Chief Editor of the Library-Bibliographical Classification, Russian State Library, 3 Vozdvizhenska Str., Moscow, 101000 Russia

Dr. Elaine SVENONIUS, Graduate School of Education and Information Studies, UCLA, 5380 N Village Green, Los Angeles, CA 90016

Prof. Dr. Harald ZIMMERMANN, Softex, Schmollerstrasse 31, D-66111 Saarbrücken, Germany

KO

KNOWLEDGE ORGANIZATION

Official Quarterly Journal of the International Society for Knowledge Organization    ISSN 0943 – 7444  
International Journal devoted to Concept Theory, Classification, Indexing and Knowledge Representation

**Publisher**

ERGON-Verlag, Grombühlstr. 7, GER-97080 Würzburg, Phone: +49 (931) 280084; FAX +49 (931) 282872; E-mail: ERGON-Verlag@t-online.de; <http://www.ergon-verlag.de>

**Editor-in-chief (Editorial office)**

Prof. Clare BEGHTOL (Acting Editor-in-Chief), Faculty of Information Studies, University of Toronto, 140 St. George Street, Toronto, Ontario M5S 3GB, Canada  
Fax +1 (416) 971-1399; E-mail: [beghtol@fis.utoronto.ca](mailto:beghtol@fis.utoronto.ca)

**Instructions for Authors**

*Manuscripts* should be submitted in English only to the editor-in-chief in two double-spaced copies and should be accompanied by an indicative abstract of 100 to 200 words. After manuscripts are accepted for publication in *Knowledge Organization*, they must be provided on a 3.5" diskette encoded in Word, WordPerfect, or ASCII text. Our preference is Word 6.0 (or later). Diskettes should not be sent until requested by the editor.

*Criteria for acceptance* will be appropriateness to the field of the journal (see Scope and Aims), taking into account the merit of the contents and presentation. The manuscript should be concise and should conform to professional standards of English usage and grammar. Manuscripts are received with the understanding that they have not been previously published, are not being submitted for publication elsewhere, and that if the work received official sponsorship, it has been duly released for publication. Submissions are refereed, and authors will usually be notified within 6 to 10 weeks. Unless specifically requested, manuscripts and illustrations will not be returned.

The text should be structured by numbered subheadings. It should contain (a) an *Introduction*, giving an overview and stating the purpose, (b) a *main body*, describing in sufficient detail the materials or methods used and the results or systems developed, and (c) a *conclusion or summary*.

*Reference citations within the text* should have the following form: (author, year). For example, (Jones, 1990). Specific page numbers are optional e.g. (Jones, 1990, p.100). A citation with two authors would read (Jones & Smith, 1990); three or more authors would be: (Jones et al., 1990). When the author is mentioned in the text, only the date and optional page number should appear in parenthesis – e.g. According to Jones (1990), ...

*References* should be listed alphabetically by author at the end of the article. Journal names should not be abbreviated. Multiple citations by the same author should be listed chronologically and should each spell out the author's name. Articles appearing in the same year should have the following format: Jones, T. (1990a) ... , Jones, T. (1990b) ...

**Examples:**

Dahlberg, I. (1978). A referent-oriented, analytical concept theory for INTERCONCEPT. *International Classification*, 5(3). 142-151.

Graesser, A., Person, N. & Huber, J. (1992). Mechanisms that generate questions. In T. W. Lauer, E. Peacock, & A. C. Graesser (Eds.). *Questions and Information Systems*. Hillsdale, NJ: Lawrence Erlbaum Associates. 167-187.

Sager, J.C. (1990). *A Practical Course in Terminology Processing*. Amsterdam: John Benjamins.

Sukiasyan, E. R. (1996). Change as a problem of classification system development. In R. Green (Ed.). *Knowledge Organization and Change: Proceedings of the 4<sup>th</sup> International ISKO Conference*. Frankfurt: Indeks Verlag. 119-122.

*Footnotes* should be kept to a minimum. They should be indicated in the text with numbered superscripts, and the corresponding notes should be collected at the end of the article, before the *references*, under the heading *Notes*.

*Illustrations* should be kept to the necessary minimum. Graphs and diagrams should be supplied as black and white drawings suitable for reproduction. Half-tone illustrations should be sharp, well-contrasted glossy prints. Illustrations should be numbered lightly with a soft pencil on the back, and a numbered legend should be attached on a separate sheet. Clear copies of the illustrations should accompany the submitted manuscript, but camera-ready originals should not be sent until requested by the editor. *Tables* should contain a number and a title at the top, and all columns and rows should have headings. All illustrations should be cited in the text as Figure 1, Figure 2, etc. or Table 1, Table 2, etc.

Upon acceptance of a manuscript for publication, authors must provide a wallet-sized photo and a one-paragraph biographical sketch. Authors will receive from the publisher 25 reprints of their articles free of charge. Additional reprints may be ordered before publication.

**Advertising**

Responsible for advertising: Dr. H.-J. Dietrich, ERGON-Verlag, Grombühlstr. 7, 97080 Würzburg (Germany).

© 1999 by ERGON-Verlag Dr. H.-J. Dietrich.  
All Rights reserved.

Printed in the Federal Republic of Germany  
by Offizin Hildburghausen GmbH Druckhaus.

KO is published quarterly by ERGON-Verlag.  
The price is DM 172,-/ann. including airmail delivery.

# KNOWLEDGE ORGANIZATION

KO

Official Quarterly Journal of the International Society for Knowledge Organization    ISSN 0943 - 7444  
 International Journal devoted to Concept Theory, Classification, Indexing and Knowledge Representation

## 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 indexing/ 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 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 it was published by K.G. Saur Verlag, München. Back issues of 1978-1992 are available from ERGON-Verlag, too. (The 14 volumes of 1978-1992 are offered now at the highly reduced price of DM 200,-)

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 (US \$ 55/US \$ 110).

*Rates:* From 1999 on for 4 issues/ann. (including indexes) DM 172,- (forwarding costs included). Membership rates see above.

ERGON-Verlag, Grombühlstr. 7, GER-97080 Würzburg;  
 Phone: +49 (931) 280084; FAX +49 (931) 282872; E-mail: ERGON-Verlag@t-online.de; <http://www.ergon-verlag.de>

The contents of this journal are indexed and abstracted in *Referativnyi Zhurnal Informatika* and in the following online databases: *Information Science Abstracts*, *INSPEC*, *Library and Information Science Abstracts* (*LISA*), *Library Literature*, *PASCAL* and *Sociological Abstracts*.