

IC

CLASSIFICATION

INTERNATIONAL

**Devoted to Concept Theory
Systematic Terminology &
Organization of Knowledge**

Contents

**Access to Fiction: A Problem in Classification
Theory and Practice. Part I**

**The ARBOR Information System for Classical
Archaeology and History of Art**

**Knowledge Based Classification Systems: Basic
Issues, a Toy System and Further Prospects**

**Special Bibliography: Editions of the ICD and
Other Health-Related Classification Systems**

**INDEKS - Verlag, Frankfurt
ISSN 0340-0050 Int.Class.
Vol. 16 (1989) No. 3**

Contents

INTERNATIONAL CLASSIFICATION

Devoted to Concept Theory, Systematic Terminology and Organization of Knowledge

Editorial

Knowledge organization and the humanities and some other new features of this issue 133

Articles

Beghtol, C.: Access to fiction: A problem in classification theory and practice. Part I. 134
 Eisner, M.: The ARBOR information system for classical archaeology and history of art. 141
 Endres-Niggemeyer, B.; Schmidt, B.: Knowledge based classification systems: Basic issues, a toy system and further prospects. 146

Special Bibliography

Berg-Schorn, E.: Editions of the ICD and other health-related classification systems 157

Reports and Communications

Holley, R.P.: IFLA Section on Classification and Indexing - Williamson, N.: ASIS Annual Meeting - CRG 272 and 273 - DGD/KTF 44th Meeting - Conference on Concept Relationships - 2nd Call for Papers, TKE'90 162

ISKO News

Welcome - National Coordinators - Sponsorships for Members - Reduced Membership Fee for Members from East-European and Third World Countries - The Scientific Advisory Board - Founding of the German ISKO-Chapter - Invitation to join ISKO Working Groups - Planning the First International Conference, Darmstadt, Aug.14-17, 1990 - Conferences Around the First ISKO Conference - Planning the Second International ISKO Conference - Membership invitations - Charter and Preamble 163
 Satzung und Präamhle 168

FID/CR News 26

The 5th International Study Conference for Classification Research - FID 45th Conference and Congress, Havana, Cuba - FID/CR Future Directions - Task Force on UDC System Development - Williamson, N.: International Conference on Library Classification and its Functions, Edmonton, Canada, June 20-21, 1989 171

Book Reviews

Pörksen, U.: Deutsche Naturwissenschaftssprachen, historische und kritische Studien (German special science languages; historical and critical studies) (H. Leclercq) 173
 Hildreth, Ch.R.: Intelligent interfaces and retrieval methods for subject searching in bibliographic retrieval systems (H. Schnell) 173
 Neet, H.E.: A la recherche dum ot clé. Analyse documentaire et l'indexation alphabétique (In search of the keyword. Document analysis and alphabetical indexing) (W. Bies) 175
 Gerstenkorn, A., Stöcker, A.: Die Aufwecker. (The awakeners) (M. Ockenfeld) 176
 Prasher, R. G.: Index and indexing system (M.P. Satija) 177
 Czup, H.; Galinski, Ch. (Eds.): Terminology and knowledge engineering. Proceedings. Int. Congress, Sept. 29-Oct. 1, 1987 (P. Jaenecke) 177

Classification Literature 16(1989)No.3

Author Index III

Index to Vol.16

. 193

Editors

Dr. phil. Ingetraut Dahlberg, D-6000 Frankfurt 50, Woogstr. 36a, Editor-in-chief

Prof. Francis Miksa, Graduate School of Library and Information Science, University of Texas at Austin, Austin, TX, 78712-1276, USA

Prof. Jean M. Perrcault, University Library, University of Alabama, P.O.B. 2600 Huntsville, Alabama 35807, USA

Prof. Arashanipalai Neelameghan, 70/3 4th Main Road, Bangalore 560055, India

co-sponsored by

- FID/CR (Federation Internationale de Documentation, Committee on Classification Research, Prof. Nancy Williamson, Faculty of Library and Information Science, University of Toronto, 140 St. George Str., Toronto, Ont., M5S 1A1, Canada

Consulting Editors

Mrs. Jean Aitchison, 12, Sollershot West, Letchworth, Herts., SG6 3PC, England

Prof. Asterio T. Campos, Departamento de Biblioteconomia, Universidade de Brasilia, Brasilia DF, Brazil

Dr. A. I. Chernyi, VINITI, Ul. Usievicha 20a, Moskva 125219, UDSSR

Dr. R. Fugmann, Alte Poststr. 13, D-6270 Idstein

Dipl. Volksw. Otto Gekeler, Burgunderweg 9, D-7900 Ulm

Prof. Eric de Grolier, Conseil International des Sciences Sociales, 1, rue Miollis, F-75 Paris 15e

Prof. Dr. Norbert Henrichs, Forschungsabt. Inform. und Dokum. des Philosophischen Instituts der Universität Düsseldorf, D-4000 Düsseldorf, Universitätsstr. 1, FRG

Yukio Nakamura, Authorized Consulting Engineer, 14-8 Nisikata-1 Bunkyo Ku, Tokyo 113, Japan

Prof. Dr. F.W. Riggs, Department of Political Science, Univ. of Hawaii at Manoa, Honolulu, HI, 96822, USA

Mr. Mohinder Partap Satija, Department of Library and Information Science, Guru Nanak Dev University, Amritsar-143005, India

Dr. Eugen Seibor, Institut Informacji Naukowej. Technicznej i Ekonomicznej (IINTE), Ul. Zurawia 3/5, 00-926 Warszawa, Poland

Prof. Alfredo Serrai, Università degli Studi, via Stazione S. Pietro 22, Roma, Italy

Prof. Dr. Dagobert Soergel, College of Library and Information Services, University of Maryland, College Park, MD., 20742, USA

Infotern, c/o öster. Normungsinstitut, Postfach 130, A-1021 Wien

UDC 025.4 + 168 + 001.5 (05)

INTERNATIONAL CLASSIFICATION

Devoted to Concept Theory, Systematic Terminology and Organization of Knowledge

Editors: Dr. I. Dahlberg, Frankfurt; Prof. F. Miksa, Austin, TX; Prof. A. Neelameghan, Bangalore, India; Prof. J.M. Perreault, Huntsville, Ala., USA; co-sponsored by FID/CR

Editorial Office: c/o Dr. I. Dahlberg, Woogstr. 36a, D-6000 Frankfurt 50, Tel. 069/523690

Issue frequency: 3x/ann. *Annual subscription rates:* Institution per volume DM 84.-; Individuals per volume DM 67.20; Single issues: DM 28.-. Back issues, hard copy, per issue DM 18.-; microfiche, per issue DM 6.- (1974-1977). Institutions will be billed. Individuals must prepay. For Air Mail delivery an additional DM 4.- per issue. Postage and Mwst (domestic only) is not included.

Advertising rates: Advertising rate card No.1. Advertising fact sheet with details of mechanical requirements and closing date available upon request.

Publisher: INDEKS Verlag, Woogstr. 36a, D-6000 Frankfurt 50, Tel. 069/523690

Bank Account Nos.: INDEKS Verlag, Postgiro-Konto Frankfurt, No. 151208-608; Frankfurter Sparkasse, No. 852 082 (BLZ 500 502 01)

All rights reserved. Printed in the Federal Republic of Germany 1989 by Druckerei H. Guntrum II KG, Postfach 180, D-6407 Schlitz.

Contents page

I.C. Vol.16 (1989) No.3

Beghtol, C.: Access to fiction: a problem in classification theory and practice. Part I.

Int. Classif. 16(1989)No.3, p. 134-140, 23 refs.

Bibliographic classification theory and practice have not been as fully developed for the humanities as for the sciences. In particular, classification systems have not been generally adopted for content elements of primary works of fiction. Analysis of the kinds of exceptions that have been made for these works shows that they are often grouped by a principle that may be called "classification-by-creator" instead of by the more usual principle of "classification-by-subject". This paper explores some implications of the "classification-by-creator" principle and the potential usefulness of more detailed content access to fictional works. Some previous classification systems for fiction are described and a list of fiction analysis systems is included. It is concluded that further investigation of methods of providing users with access to fiction is warranted. (Author)

Eisner, M.: The ARBOR information system for classical archaeology and history of art.

Int. Classif. 16(1989)No.3, p. 141-145, 9 refs.

Both domains divide scientific knowledge into object and method knowledge, with the former meaning knowledge of the organization of the individual real and normally complex research objects and the latter knowledge of the ways how to compare these objects. Object knowledge progresses stepwise from the object as a whole to its parts, subparts, etc. and can be visualized as an object-specific tree structure. ARBOR consists of a formal language able to represent textual object knowledge in a computer readable way. A PC-based implementation allows retrieval on the basis of ARBOR-coded object descriptions in different tree-structure-specific query-modes. (Author)

Endres-Niggemeyer, B., Schmidt, B.: Knowledge-based classification systems: Basic issues, a toy system and further prospects.

Int. Classif. 16(1989)No.3, p. 146-156, 27 refs.

This article propagates expert systems for classification by 1) explaining the conceptual affinity (especially) between faceted classification schemes and frame representations, using a simple example and a toy system for demonstration purposes, 2) reviewing some approaches to classificational knowledge processing, both from Artificial Intelligence and Classification Research or Information Science, in order to prepare the ground for the development of more comprehensive systems: expert systems for classification. (Authors)

Berg-Schorn, E.: Editions of the ICD and other health-related classification systems. A systematically arranged bibliography of works 1960-1989.

Int. Classif. 16(1989)No.3, p. 157-159

Lists 80 references mainly in relation to the German language versions of ICD-9, the International Classification of Diseases of the World Health Organization, Geneva. As there had been many requests of ICD-9 users, a list of publications of ICD manuals, specialty-based applications of the ICD, and a number of other current health-related classification systems were compiled. The bibliography is in 5 parts: (1) ICD-9 editions, (2) Other general medical classification systems, (3) Subject-related Medical Classification systems, (4) Codes in the area of primary care, (5) Classification systems for drugs and adverse reactions. An author index has been added. (Author)

Please correct:

In issue 16(1989)No.2, in the Contents List and on p.116 the author of the obituary for J.E.L. Farradane was omitted by mistake. It is Prof. R.T. Bottle from the Department of Information science, City University London. We are very sorry for this omission!

This contents page may be reproduced without charge

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 organisation
 mathematics, statistics, and computer science
 library and information science
 archivalistics and museology
 journalism and communication science
 industrial products and commodity science
 terminology, lexicography and linguistics

Beginning 1974, 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 surveys, of tabular works and of other objects of scientific interest. Their contributions have been concerned with

- (1) clarifying the theoretical foundations (general ordering theory, scientific 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 (e.g. text) and equally collected with their texts at the end of the paper under the heading *Notes*.

Aims

Thus, INTERNATIONAL CLASSIFICATION 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.

INTERNATIONAL CLASSIFICATION publishes original articles, reports on conferences and similar communications, the Newsletters of FID/CR (Committee on Classification Research of the International Federation for Documentation), and COCTA (Committee on Conceptual and Terminological Analysis), book reviews, letters to the editor, and an extensive annotated bibliography of recent classification and indexing literature, covering between 400 and 500 items in each issue.

INTERNATIONAL CLASSIFICATION 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.

INTERNATIONAL CLASSIFICATION 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 1978-1985 are available from INDEKS Verlag, too. (The 9 volumes of 1978-1986 are offered now at the highly reduced price of DM 300.-.)

As of August 1989, INTERNATIONAL CLASSIFICATION has become the official organ of the INTERNATIONAL SOCIETY FOR KNOWLEDGE ORGANISATION (ISKO) (founded on July 22, 1989) and is included for every ISKO-member, personal or institutional, in the membership fee (\$25/\$50).

Rates: From 1990 on for 4 issues/ann. (including indexes) DM 94.00 + postage (= DM 6.00). For air mail delivery add DM 4.00 per issue. Membership rates see above.

INDEKS Verlag, Woogstr. 36a, D-6000 Frankfurt 50.

Journal References should contain the names and initials of all authors, full title 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: Mater, E.: Human intelligence as a precondition for the machine processing of knowledge. *Int. Classif.* 15(1988)No.3, p.125-132

Hunter, E.J.: Classification made simple. Aldershot, GB: Gower 1988. 115p.

Illustrations should be restricted to the necessary minimum.

Graphs and diagrams should be supplied as black and white drawings suitable to reproduction. *Half-tone illustrations* should be sharp, well-contrasted glossy prints. Illustrations should be numbered lightly with a soft pencil on the back. Numbered *legends* should be attached on a separate sheet.

Tables should be typed double-spaced on a separate sheet, contain a number and a title at the top and be cited in the text. Each column should have a heading.

Authors shall receive 25 *reprints* of their papers free of charge. Additional reprints may be ordered.

Corrections in galley proof exceeding 10% of the typesetting costs will be charged to the author.

Contributions on micro flexible discs are welcome if delivered in the ASCII code. Such contributions must be accompanied by their printouts on paper.