

IC

# CLASSIFICATION

INTERNATIONAL

Devoted to Concept Theory  
Systematic Terminology &  
Organization of Knowledge

## Contents

Subject Retrieval in Denmark 1975-1985.  
A Survey

An Outline of a Non-Linguistic Approach to  
Subject-Relationships

Compatibility among Medical Classification  
Systems: A Case Study in the Classification  
of Cardiovascular Diseases

Computerization of Deep Structure Based  
Indexes

INDEKS - Verlag, Frankfurt  
ISSN 0340-0050 Int.Class.  
Vol. 12 (1985) No. 2

# Contents

## Editorial

- Interest in Classification . . . . . 65

## Articles

- J.B. Friis-Hansen: Subject retrieval in Denmark, 1975–1985. . . . . 66  
 A survey . . . . . 66  
 Th. Johansen: An outline of a non-linguistic approach to subject relationships . . . . . 73  
 S. Seetharama: Compatibility among medical classification systems: A case study in the classification of cardiovascular diseases . . . . . 80  
 F.J. Devadason: Computerization of deep structure based indexes . . . . . 87

## Reports and Communications

- Society for Conceptual and Content Analysis by Computer, 3rd Meeting . . . . . 79  
 International Federation of Classification Societies . . . . . 86  
 4th European Meeting of the Psychometric Society and the Classification Societies – British Classification Society: Meeting Fall 1985 . . . . . 86

## Recommendation

- Free text in information systems. Capabilities and limitations . . . . . 95

## COCTA News

- H. Teune: Key logical concepts in the social sciences – . . . . . 99  
 COCTA Panels at the APSA Meeting, New Orleans, at the World Congress of ISA, New Delhi, at the IPSA World Congress, Paris. . . . . 100

## FID/CR News 14

- 2nd FID/CR Regional Meeting: Classification and Communication. . . . . 101  
 FRG: Classification as a Tool of Research – India: Workshops, PhD Theses – Italy: AIB National Study Commission for Cataloguing – U.K.: CRG 251, 252, 253 – USA: ASIS/SIG/CR . . . . . 104

- Classification and Indexing Research. Current Bibliography . . . . . 105

## Book Reviews

- R. Fugmann: The analytico-synthetic foundation for large indexing and information retrieval systems (L. Kalok) . . . . . 106  
 W. Dahlberg: Ordnung, Sein und Bewußtsein (Order, Being and Consciousness) (W. Nedobity) . . . . . 107  
 M.J. Greenacre: Theory and application of correspondence analysis (H.H. Bock) . . . . . 107  
 H.G. Burger: The Wordtree: A transitive cladistic for solving physical and social problems (F.R. Riggs) . . . . . 108  
 G. Stevenson, S. Stevenson: Reference services and technical services: Interactions in library practice (J.M. Perreault) . . . . . 110  
 P.N. Kaula: A treatise on Colon Classification (M.P. Satija) . . . . . 113

- Classification Literature 12 (1985) No. 2 . . . . . 114

## INTERNATIONAL CLASSIFICATION

Devoted to Concept Theory, Systematic Terminology and Organization of Knowledge

### Editors

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

Prof. Dr. med. Dr. phil. Alwin Diemer, Philosophisches Institut der Universität Düsseldorf, D-4000 Düsseldorf 1, Universitätsstr. 1, FRG.

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

Prof. Arashanipalai Neelameghan, c/o Unesco PGI. 7, Place de Fontenoy, F-75700 Paris

co-sponsored by

– FID/CR (Federation Internationale de Documentation, Committee on Classification Research, address see Dr. I. Dahlberg)

### Consulting Editors

Mrs. Jean Aitchison, 12, Sollershott West, Letchworth, Herts., SG6 3PX, England

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

Dr. A.I. Černyj, VINITI, Moscow A-219 Baltijskaja ul. 14, USSR

Dipl. Math. Hermann Fangmeyer, Euratom CCR C.E.T.I.S. (European Scientific Information Processing Centre), I-21020 Ispra (Varese) Italy

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

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

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

Prof. Dr. Phyllis Richmond, School of Library Science, Case Western Reserve University, Cleveland, Ohio, 44106, USA

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

Dr. Eugen Scibor, Institut Informacji Naukowej, Technicznej i Ekonomicznej (IINTE), Al. Niepodleglosci 188, Warszawa, Poland

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

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

Prof. Dr. Robert R. Sokal, State University of New York, Stony Brook, New York 11794, USA

Forschungsabteilung Information und Dokumentation des Philosophischen Instituts der Universität Düsseldorf, D-4000 Düsseldorf, Universitätsstr. 1, FRG, Prof. Dr. phil. Norbert Henrichs

Gesellschaft für Klassifikation e.V. represented by Dr. R. Fugmann, Hoechst AG, Wissenschaftliche Dokumentation, D-6230 Frankfurt 80, FRG

Infoterm, c/o öster. Normungsinstitut, Postfach 130, A-1021 Wien, Prof. H. Felber



*Editors:* Dr. I. Dahlberg, Frankfurt; Prof. Dr. Dr. A. Diemer, Düsseldorf; Prof. A. Neelamgehan, Uneso, Paris; 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. 0611/523690

*Issue frequency:* 3x/ann. *Annual subscription rates:* Institution per volume DM 74,—; Individuals per volume DM 59,20; Single issues: DM 25,—. 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 dates available upon request.

Responsible for advertising, B. Michael

*Publisher:* INDEKS Verlag, Woogstr. 36a, D-6000 Frankfurt 50, Tel. 0611/523690

*Bank Account Nos.:* INDEKS GmbH, Postscheck-Konto Frankfurt, No. 151208-608; Frankfurter Sparkasse von 1822, No. 852082 (BLZ 50050201)

All rights reserved. Printed in the Federal Republic of Germany 1984 by Druckerei H. Guntrum II KG, Postfach 180, D-6407 Schlitz

## Contents page

I.C. Vol. 12 (1985) No. 2

Friis-Hansen, J.B.: **Subject retrieval in Denmark, 1975–1985. A survey.**

Int. Classif. 12 (1985) No. 2, p. 66–72, 50 refs.

Provides 1) a survey on the classification systems that matter most in Danish libraries, among which the UDC and DK5, a Danish creation developed from the DDC. Reviews 2) research and development concerning the choice of an indexing technique to counterpart and support classification systems. Describes 3) the development in single library online catalogues, and in joint catalogues and bibliographical databases for several libraries and mentions 4) Danish participation in Scandinavian databases and in international databases of a special character. Furthermore, evaluations of the value of downloading subject data from foreign databases and of the searches performed in databases offered from foreign hosts have been made. (Author)

Johansen, T.: **An outline of a non-linguistic approach to subject-relationships.**

Int. Classif. 12 (1985) No. 2, p. 73–79, 14 refs.

Not language itself, but reality displayed by means of language should be the object of investigation. One must try to look behind linguistic expressions in attempting to visualize this reality, especially when one is concerned with subjects and relationships, which cannot be made objects of direct observations (immaterial subjects and relationships).

This leads to the well-known fact, that subject-relationships are of two kinds: Static or dynamic, where the last named covers what in linguistic terminology is labeled: Processes, actions and action-processes.

As one or two subject-connections are always present in a dynamic subject-connection, it is reasonable to consider this type of connection as the framework inside which the contents of a sentence is suspended.

Another characteristic of great importance is the fact, that even if a dynamic connection can be expressed in one sentence, one sentence sometimes contains linguistic expressions of subjects that do not belong to the dynamic connection in question.

This in its turn leads to the question of mutual relationships between connections, which is only touched upon in this paper.

(Author)

Seetharama, S.: **Compatibility among medical classification systems: a case study in the classification of cardiovascular diseases.**

Int. Classif. 12 (1985) No. 2, p. 80–86, 4 refs.

Since classification systems are at best compromises between opposing or conflicting views and requirements of different user groups, incompatibilities exist between them. Therefore, in this research investigation an attempt has been made to study the extent of compatibility among Medical Classification Systems with special reference to the Classification of Cardiovascular Diseases. The specific objectives in relation to the problem of research are to study: Compatibility (1) among universal classification systems; (2) among special classification systems; and (3) between universal and special classification system. The study of compatibility has been made at near-seminal level by the application of Normative Principles of the General Theory of Classification, and at the phenomenal level by classifying a set of a few hundred cardiovascular pathological conditions. Major findings and inferences based on the study have been given. Apart from the fact that compatibility between systems is either unidirectional and bidirectional depending on the features of the systems concerned, the study indicates that the Normative Principles can helpfully be utilised for studying compatibility.

The study has shown that conceptual compatibility is far more important than verbal compatibility, and also that freely faceted classification systems can be used as link/switching languages for achieving compatibility.

(Author)

Devadason, F.J.: **Computerization of deep structure based indexes.**

Int. Classif. 12 (1985) No. 2, p. 87–94, 26 refs.

The Deep Structure Indexing System is based on: 1) a set of postulated Elementary Categories of the elements fit to form components of names of subjects; 2) a set of syntax rules with reference to the Categories; 3) a vocabulary control tool such as Classaurus; 4) a set of indicator digits to denote the Categories and their subdivisions; and 5) a set of codes to denote a few of the decisions of the indexer. Names of subjects formulated on the basis mentioned above are input to a set of computer programs to generate several different types of subject index entries. This paper describes briefly the Deep Structure Indexing System.

(Author)

**Beilagenvermerk:**

Der Ausgabe 1985-2 liegt ein Prospekt des INDEKS Verlages bei.

# INDEKS-VERLAG



P U B L I S H E R O F

INTERNATIONAL CLASSIFICATION. A Journal devoted to Concept Theory, Systematic Terminology and Organization of Knowledge. Vol.1(1974)No.1-; 3/ann. (since 1978) Institutions DM 74.-, Individuals 20% off, Members of Society for Classification 40% off + postage.

## FID/CR REPORT SERIES

No.19: Craven, T.C.: Classification Research in Canada. 1981. 40 p.  
No.20 Riggs, F.W.: Indexing Glossary: a New Rationale. 1982. 40 p.  
(Nos.19 and 20 each DM 11.- (\$ 5.-))

## INTERNATIONAL CLASSIFICATION AND INDEXING BIBLIOGRAPHY -- ICIB

ICIB 1: Classification Systems and Thesauri. (Lists some 2300 titles with annotations) 160 p., DM 48.80 (US \$ 19.50)  
ICIB 2: Reference Tools and Conferences in Classification and Indexing. (Some 4000 titles classed, indexed and annotated). 160p. DM 48.80

## CONFERENCE SERIES OF THE GERMAN SOCIETY FOR CLASSIFICATION

PRINZIPIEN DER KLASSIFIKATION (Classification Principles) Proceedings  
1st Conf.Münster/W, June 4,1977. 156 p. (out of print) SK-1

KOOPERATION IN DER KLASSIFIKATION (Cooperation in Classification).  
Proc.2nd Conf. Frankfurt-Höchst, April 6-7, 1978. 2 vols. 222+242 p.,  
DM 35.- each. SK-2, SK-3

KLASSIFIKATION UND ERKENNTNIS (Classification and Cognition). Proc.  
3rd Conf.and 1st Regional Conf.of FID/CR, Königstein/Ts, 4-7 April 1979  
3 vols. together DM 100.- SK-4, SK-5, SK-6

WISSENSSTRUKTUREN UND ORDNUNGSMUSTER (Structures of Knowledge  
& Patterns of Order). Proc.4th Conf.Salzburg, Austria, April 16-19, 1980  
368 p., DM 65.- SK-9

NUMERISCHE UND NICHT-NUMERISCHE KLASSIFIKATION ZWISCHEN  
THEORIE UND PRAXIS (Numerical and Non-numeric Classification between  
Theory and Practice). Proc. 5th Annual Conf. Hofgeismar, Apr.7-10,1981  
Frankfurt 1982. 352 p., DM 60.- SK-10

UNIVERSAL CLASSIFICATION I, II. SUBJECT ANALYSIS AND ORDERING  
SYSTEMS. Proc.4th Int. Study Conf.on Classif.Res.of FID/CR and of 6th  
Ann.Conf.of Ges.f.Klassif., Augsburg, 28 June -2 July 1982. Vols.1 and  
II. 52 papers. Frankfurt 1982/83. 360+216 p., DM 92.40 SK-11, SK-12

AUTOMATISIERUNG IN DER KLASSIFIKATION (Automation in Classifica-  
tion). Proc.7th Ann.Conf. Königswinter, Apr.5-8, 1983. Frankfurt 1983.  
288p., DM 48.- SK-13

THE CONTA CONFERENCE. Proceedings of the Conference on Conceptual and  
Terminological Analysis in the Social Sciences. Bielefeld, FRG, May 24-27,  
1981. Frankfurt 1982. 382 p., bound DM 64.80

WHO IS WHO IN CLASSIFICATION AND INDEXING. Comp.& ed.by I.Dahlberg.  
(Some 700 persons from 45 countries). Frankfurt 1983. 176 p., DM 20.- (\$8.-)  
for those included, DM 50.- (\$20.-) for anybody else. FID-Publ.620.

INDEKS VERLAG – Woogstr. 36a – D-6000 Frankfurt 50 – Telefon (069) 523690