

INTERNATIONAL CLASSIFICATION

A Journal Devoted to Concept Theory, Organization of Knowledge and Data, and to Systematic Terminology

Editors

Dr. I. Dahlberg, Frankfurt, FRG (Editor-in-Chief)
Prof. Dr. Dr. A. Diemer, Düsseldorf, FRG
Prof. A. Neelameghan, Bangalore, India
Prof. J. M. Perreault, Huntsville, Ala., USA

co-sponsored by

- FID/CR
- IFLA International Office for UBC

in collaboration with

Prof. A. T. Campos, Brasilia, Brazil
Dr. A. I. Černyj, Moscow, USSR
Dipl.Math. H. Fangmeyer, Ispra, Italy
Dipl.Volksw. O. Gekeler, Ulm, FRG
Prof. E. de Grolier, Paris, France
Prof. Dr. F. Lang, Vienna, Austria
Cons.Eng. Y. Nakamura, Tokyo, Japan
Prof. Dr. Ph. Richmond, Cleveland, USA
Prof. F. W. Riggs, Honolulu, Hawaii, USA
Dr. E. Scibor, Warsaw, Poland
Prof. A. Serrai, Roma, Italy
Prof. Dr. D. Soergel, College Park, Md., USA
Prof. Dr. R. Sokal, Stony Brook, N.Y., USA
Prof. B. C. Vickery, London, England
The Forschungsabt. Information und Dokumentation
des Philosophischen Instituts, Universität Düsseldorf, FRG
(Dir. Prof. Dr. N. Henrichs)
The Gesellschaft für Klassifikation e.V., Frankfurt, FRG
(repres. Dr. R. Fugmann, Hoechst, FRG) and
Infoterm, Vienna, Austria (Mr. H. Felber)

**Verlag Dokumentation Saur KG München
K.G. Saur New York**

Contents

Editorial	
A journal devoted to	1
Articles	
D. J. McDonell: Classification and their keys	3
K. S. Raghavan, Hemalata Iyer: Structuring of compound and complex subjects in social sciences: a users' survey	8
M. Nocetti: Agricultural soil science in universal classification systems. A comparative analysis	15
R. G. Henzler: Free or controlled vocabularies	21
K. Ostarhild: Problems of commodity classification	27
A. M. Carpenter, M. Jones, Ch. Oppenheim: Consistency of use of the International Patent Classification	30
H.-J. Zingel: Experiences with TITUS II	33
Reports and Communications	
H. Felber: Results of the ISO/TC46 WG5 Meeting in Paris	38
I. Dahlberg: Meeting of WGs of the German DIN Classification Committee, Braunschweig	38
Calendar of Classification Meetings 1978	39
Cooperation in Classification (Program)	39
Canadian Classification Research Group 1978 Meeting	40
International Policy and Practice in Indexing	40
Infoterm News (H. Felber)	
Terminology and terminological lexicography	41
Computational aids in terminology and lexicography	42
Study on the development of TermNet	42
Terminology Centre Wieselburg	42
Book Reviews	
Mills, J., Broughton, V.: Bliss Bibliographic Classification (Bakewell)	43
Downing, J. C., Yelland, M.: Dewey International (Wellisch)	44
Van Slype, G.: Conception et gestion des systèmes documentaires (Rolling)	45
Bahner, H., Friede, H.-J., Haendler, H., Schoen, P. J.: Thesaurus Tierische Produktion (M. Scheele)	45
Classification Literature 5 (1978) No. 1, Nos. 3083-3461	47

Editors

Dr. phil. Ingetraut Dahlberg, D-6000 Frankfurt 50, Woogstr. 36a, FRG
 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. 1247 Huntsville, Alabama 35807, USA
 Prof. Arashanipalai Neelameghan, Documentation Research and Training Centre (DRTC) 112 Cross Road 11, Malleswaram Bangalore-560003, India co-sponsored by
 – FID/CR (Fédération Internationale de Documentation, Committee on Classification Research), address see Prof. A. Neelameghan
 – International Federation of Library Associations and Institutions (IFLA) International Office for UBC, Director: Mrs. D. Anderson, c/o The British Library, Ref. Div., London WC1B 3DG, England

Consulting Editors

Prof. Astério T. Campos, Departamento de Bibliotecnologia, Universidade de Brasília, Brasília DF, Brazil
 Dr. A. I. Chernyj, 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 Ipsa (Varese) Italy
 Dipl. Voiksw. Otto Gekeler, AEG-Telefunken (NI),

Prof. Eric de Grolier, Conseil International des Sciences, 1, rue Miollis, F-75 Paris 15e, France
 Prof. Dr. Friedrich Lang, IBM, A-1040 Wien, Margaretenstr. 3/4, Austria
 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. F. W. Riggs, Department of Political Science, Univ. of Hawaii at Manoa, 2424 Maile Way, Honolulu, Hawaii, USA
 Dr. Eugen Scibor, Institut Informacji Naukowej, Technicznej i Ekonomicznej (INTE), Al. Niepodległości 188, Warszawa, Poland
 Prof. Alfredo Serrai, Director, Biblioteca Casaniana, Via S. Ignazio 52, I-00186 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
 Prof. Bryan C. Vickery, School of Library, Archive and Information Studies, University College, Gower Street, London WC 1, England
 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,

INTERNATIONAL CLASSIFICATION

A Journal Devoted to Concept Analysis, Organization of Knowledge and Data, and Systematic Terminology

Editorial Office: c/o Dr. I. Dahlberg, Woogstr. 36a, D-6000 Frankfurt 50, Tel.: (06 11) 52 36 90

Issue frequency: 3x/ann.

Publisher: Verlag Dokumentation Saur KG, Pössenbacherstr. 2, POB 71 1009, D-8000 München 71, Fed. Rep. of Germany, Tel.: (089) 79 89 01, Telex 52 12067 saur d

Komplementär: Klaus G. Saur, Josefinenstr. 22, D-8000 München 71, Verleger – Kommanditisten: Dr. h. c. Thomas Karger, Arnold-Böcklin-Str. 25, CH-4011 Basel, Verleger – Daniel Melcher, Glen Echo Farm, RFD4, Charlottesville, Virginia 22901, USA, Verleger.

U.S.-Office: K.G. Saur Publishing, Inc., 175 Fifth Avenue New York, NY 10010 Tel.: (212) 477-2500

Annual Subscription Rates:

DM 54,-. For members of national or international classification societies or groups DM 32,-. Single issue: DM 22,-

Advertising prices 1/74

Bank Account Nos.:

Verlag Dokumentation Saur KG: Postscheckkonto München 2061 41-804 (BLZ 700 10080); Bayer. Hypotheken- und Wechselbank München, 3 388662 (BLZ 700 2001)

Printed by:

Hain-Druck KG, D-6554 Meisenheim/Glan
 All rights reserved. Printed in the Federal Republik of Germany 1978



**Verlag Dokumentation
Saur KG, München**

K.G. Saur, New York

Authors of this issue

Prof. K. G. B. Bakewell, Library and Information Studies, Liverpool Polytechnic, Tithebarn Street, Liverpool L2 2ER, England
 Ms. A. N. Carpenter, see Oppenheim
 Mr. H. Felber, see above
 Ms. Hemalata Iyer see Raghavan
 Dipl. Math. R. Henzler, Institut für Dokumentation, Information und Statistik, Deutsches Krebsforschungszentrum, Postfach 449, D-6900 Heidelberg
 Ms. M. Jones, see Oppenheim
 Dr. D. J. McDonell, Faculty of Philosophy, University of Ottawa, Ottawa, Ont. K1N 6NS, Canada
 Mr. M. A. Nocetti, DID-EMBRAPA, Caixa Postal 1316, 70000 Brasilia, DF, Brasil
 Dr. Ch. Oppenheim, Centre for Information Science, The City University, St. John Street, London EC1 V 4PB, England
 Dr. K. Ostarhild, Min. Rat a.D., Eltviller Str. 11, D-5300 Bonn-Bad Godesberg
 Mr. K. S. Raghavan, Reader, Department of Library Science, University of Madras, Madras 600005, India
 Mr. L. Rolling, European Communities, Kirchberg Centre, Monnet-Bldg., Luxembourg
 Prof. Dr. M. Scheele, Postfach 180, D-6407 Schlitz/Hessen
 Prof. Dr. H. H. Wellisch, College of Library and Information Services, University of Maryland, College Park, Md. 20742, USA
 Mr. H.-J. Zingel, Leiter der ZTDI, Hebbelstr. 17, D-4000 Düsseldorf

Publisher: Verlag Dokumentation Saur KG, P.O.Box 711009, Pössenbacherstr. 2, D-8000 München 71, FRG
 Tel.: (089) 798901, Telex 5212067 saur d

Editorial offices: c/o Dr. I. Dahlberg, Woogstr. 36a, D-6000 Frankfurt 50, Tel.: (0611) 52 3690

Issue frequency: 3/ann.; Subscription DM 54,—/ann.

Contents page

This contents page may be reproduced without charge

McDonell, D. J.: **Classifications and their keys.**
 In: Intern. Classificat. 5 (1978) No.1, p. 3–7, 6 refs.

According to David Wiggins a classification is acceptable if it is explanatory, and it will be explanatory if it establishes law-like relations between its members. Applying Hempel's formal criteria for classification of Foucault's example, it is shown that it does not meet Wiggins' requirements because this classification is without a key. However, examining some of Paracelsus' classifications it is shown that even though, at first glance they are as strange as Foucault's example, they are explanatory within their system of thought, because the specific system of thought provides the key to understanding them. (Author)

Henzler, R. G.: **Free or controlled vocabularies. Some statistical user-oriented evaluations of biomedical information systems.**
 In: Intern. Classificat. 5 (1978) No.1, p. 21–26, 15 refs.

Based on CANCERNET (a literature information system, formerly called SABIR-C) a quantitative comparison of free text and controlled vocabulary used in indexing and retrieval is given. The advantages of free text search are compared with the convenience of searches using controlled vocabulary. An indexing consistency text of 683 double indexed articles is commented on. The results are evaluated with regard to loss of information from the author to the user. They show the necessity of both free text and controlled vocabulary in an optimum combination. (Author)

Raghavan, K. S., Hemalata Iyer: **Structuring of compound and complex subjects in social sciences: a users' survey.**
 In: Intern. Classificat. 5 (1978) No.1, p. 8–14, 2 refs.

Presents an analysis of the detailed survey on facet-analysed subject strings in the field of Social Sciences. Subject-strings of four types were administered as a stratified sample of responses to identify the gaps in semantic connotation of terms. This survey has helped to identify the possible aberrations in the semantic connotations due to the presence or absence of terms. It was found that use of prepositions, conjunctions and other role indicating terms give semantic clarity. The syntax of spectator terms may have to be varied according to the respondent groups. It was found that if the number of component terms in a subject string increases beyond a certain limit it gives rise to problems in interpretation of ideas. This indicates a breakeven point for formulating subject headings. (Authors)

Ostarhild, K.: **Problems of commodity classification.**
 In: Intern. Classificat. 5 (1978) No.1, p. 27–29

The classification of commodities must be seen as a subarea of the general structure of economics. Its objects of concern being both commodities and data on commodities, yielding material characteristics and management data. The "service life" of the commodity monitored by data is marked materially by function and organizationally by "agencies". Concludingly the weak spots in a commodity's "service life" are pointed out. I. C.

Carpenter, A. M., Jones, M., Oppenheim, Ch.: **Consistency of use of the International Patent Classification. — Studies on Patent Classification Systems I.**
 In: Intern. Classificat. 5 (1978) No.1, p. 30–32, 5 refs.

Report on the result of a small-scale test of the consistency of use of IPC for the same invention by two sets of examiners in the USA and UK in two different subject areas: inorganic chemistry and biochemistry. Reasons for inconsistency are given and conclusions for the use of Derwent's and INPADOC's services are drawn. I. C.

Nocetti, M.: **Agricultural soil science in universal classification systems. A comparative analysis.**
 In: Intern. Classificat. 5 (1978) No.1, p. 15–20, 21 refs.

This comparative analysis for the field of agricultural soil science in the DDC, BBC and LCC discusses presentation, structure and material relationships in these systems. Inconsistencies from several points of view are pointed out. A new structure is created using the elements of all three systems, grouping them in several facets and arranging them in an order facilitating their citation order. Some application examples show the applicability of the proposed system. (Author)

Zingel, H.-J.: **Experiences with TITUS II.**
 In: Intern. Classificat. 5 (1978) No.1, p. 33–37

Description of the international cooperative documentation system called TITUS (Textile Information Treatment Users' Service) in its previous and present form (TITUS II). It uses a special linguistic way of automatic translation of abstracts and index terms (with a controlled vocabulary and a controlled syntax) in order to supply users of the English, French, German or Spanish language with abstracts in their native language from inputs in one of the other languages. I. C.

WHO's WHO

IN THE SOCIALIST COUNTRIES

A biographical encyclopedia of 10,000 leading personalities in 16 communist countries

Edited by Borys Lewytzkyj and Juliusz Stroynowski.
1978. XVI, 736 pages. Clothbound. DIN A 4. DM 198.—. ISBN 3-7940-3193-8

WHO's WHO IN THE SOCIALIST COUNTRIES

is a pioneering work in its field and the only reference work of its kind in scope and comprehensiveness. For the first time ever some 10,000 biographies of the leadership of 16 communist countries have been collected into one volume. The result of extensive research by two distinguished communist-affairs analysts, it covers the world of politics, science, economics, literature, religion and the arts.

Each biography contains full name, date and place of birth, nationality, education, party affiliation, political activities, present and former positions held, decorations, orders and prizes as well as publications.

There are over 4,000 listings for the Soviet Union alone, including all major changes in the Politburo and the Central Committee of the Communist Party which occurred following the XXVth Party Congress in February 1976. The section on Communist China takes into account the changes following the death of Chairman Mao, and extensive material on Poland, Czechoslovakia and the German Democratic Republic offer the latest information available to Western observers.

Who's Who in the Socialist Countries

is an information source of unique value and indispensable to political agencies and politicians, diplomats and journalists, historians, universities and research institutes — in short to anyone with an active interest in those who wield power and exercise influence in the communist world.

The 16 territories covered are: The Soviet Union, the German Democratic Republic, Poland, Czechoslovakia, Romania, Bulgaria, Hungary, Yugoslavia, Albania, Mongolia, China, North Korea, Vietnam, Laos, Cambodia and Cuba.

Verlag Dokumentation Saur KG
München · New York · Paris

P.O.B. 711009 – D-8000 München 71 – Phone (089) 79 89 01 – Telex 5212067 saur d