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. A. Diemer, Diisseldorf, 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)



K · G · Saur München · New York · London · Paris

Vol. 6 (1979) No. 2

Contents

Editoral Classification and Cognition
Articles W. Dahlberg: Towards a geometry of basic concepts
Reports and Communications R. Fugmann: Concerning the problematics of indexing standardization (In German)
Infoterm News Second Meeting of ISO/TC 37 WGI — Workshop on Eurodicautom — Internationales Kolloquium Dresden — 2nd Conference on ECSSID-TermNet activities — First international conference on terminological data banks — Infoterm Advisory Board Meeting — Future Meetings
Book Reviews N. Bolton: Concept formation (F. W. Riggs)
Classification Literature 6 (1979) No. 2, Nos. 4386-4733 133

UDC 025.4 (05)

INTERNATIONAL CLASSIFICATION

A Journal Devoted to Concept Theory, Organization of Knowledge and Data, and to 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: K. G. Saur Verlag KG. Pössenbacherstr. 2 b, POB 71 1009, D-8000 München 71,

Fed. Rep. of Germany,

Tel.: (089) 79 89 01, Telex 52 12067 saur d

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.:

K. G. Saur Verlag KG Postscheckkonto München 2061 41-804 (BLZ 700 10080); Bayer. Hypothekenund Wechselbank München, 3 388 662 (BLZ 700 2001)

All rights reserved. Printed in the Federal Republic of Germany 1979 Printed by Hain-Druck KG, D-6554 Meisenheim/Glan

K·G·Saur München New York · London · Paris



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. 2600 Huntsville, Alabama 35807, USA

Prof. Arashanipalai Neelameghan, Documentation Research and Training Centre (DRTC) 31, Church Street, Bangalore-560001, India

co-sponored by

- FID/CR (Fédération Internationale de Documentation, Committee on Classification Research),
address see Prof. A. Neclameghan

 International Federation of Library Associations and Institutions (IFLA) International Office for UBC, Director: Mrs. D. Anderson, c/o The British Library, Ref. Div., London WCIB 3DG, England

Consulting Editors

Prof. Astério 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 Gekcler, Burgunderweg 9, D-7900 Ulm

Prof. Eric de Grolier, Conseil International des Sciences, 1, rue Miollis, F-75 Paris 15e, France Prof. Dr. Friedrich Lang, IBM, A-1040 Wien, Margarethenstr. 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. Dr. 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 (IINTE), Al. Niepodleglości 188, Warszawa, Poland

Prof. Alfredo Serrai, Director, Bihlioteca Casanatense, 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 Infotern. c/o öster. Normungsinstitut, Postfach 130,

h **A**p**1,02b Wien: Mr.7H./Felber**/444-1979-2-I Generiert durch IP '3.147.48.34', am 07.06.2024, 23:27:1

Authors of this issue:

Prof. Dr. H. H. Bock, Institut für Statistik und Wirschaftsmathematik der RWTH Aachen, Pontstr. 51, Postfach 112, D-5100 Aachen

Mr. W. Dahlberg, Woogstr. 36a, D-6000 Frankfurt 50

Mr. A. J. Dickson, Ealing College of Higher Education, St. Mary's Road Ealing, London W5 SRF, England

Dr. R. Fugmann, Hoechst AG, Wiss. Dok., Postfach 80 03 20. D-623 Frankfurt 80

80 03 20, D-623 Frankfurt 80 Mr. M. A. Gopinath, DRTC, 31, Church Street, Bangalore 560001, India

Dr. W. Heydrich, Fakultät für Linguistik und Literaturwissensehaft, Universität Bielefeld, D-4800 Bielefeld

Mr. A. J. N. Judge, Assist. Gen. Secr., Union of Intern. Assoc., 1, rue aux Laines, B-1000 Bruxelles

Prof. Dr. F. W. Riggs, Department of Political Science, University of Hawaii, 2424 Maile Way, Honolulu, Hawaii, 96822, USA

Dr. G. Römer, Direktor der Badischen Landesbibliothek, Postfach 1451, D-7500 Karlsruhe

Fr. Dr. G. Schott, Ahmet Mithat Efendi sok 36/5, Çankaya – Ankara, Türkei UDC 025.4 (05)

INTERNATIONAL CLASSIFICATION

Vol. 6 (1979) No. 2, p. 71-148, July 1979

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

Publisher:

K. G. Saur Verlag KG, P.O.Box 711009, Pössenbacherstr. 2b, D-8000 München 71

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

Dahlberg, W.: Towards a geometry of basic concepts. In: Intern. Classificat. 6(1979) No. 2, p. 73-84, 12 refs.

The essential pillars of man's thinking and knowing are the basic concepts which structure all his knowledge so far attained and his future knowledge. It is, however, only with great difficulty that these basic concepts can be made accessible for everyone through conceptual clarification, definition and classification. Here, geometrical forms and shapes are used as instruments for a proper representation of interrelationships of such concepts. This approach is supported by a fourfold way of reasoning concerning (1) basic questions of structuralization, (2) the problem of definition and defining, (3) the question of cognition and the standpoints of attaining cognitive knowledge and (4) the problem of classification of such concepts. The figures, tables and charts added display the methods applied as welll as the concepts clarified in this way. The Epilog summarizes the four approaches and shows their practical implications.

Fugmann, R., Winter, J. H.: Reverse retrieval: Toward analogy inferences by mechanized classification. Treatise VII on Retrieval System Theory. In: Intern. Classificat. 6 (1979) No. 2, p. 85 -91, 5 refs.

Whether or not an object of interest is an element of a class of objects on which important statements have already been made in the literature, can be recognized mechanically by the technique of "reverse retrieval". Thus, by way of analogy inference, statements on the object of interest can be reliably suggested by this technique and submitted for validity scrutiny. Reverse retrieval is an area of information supply which exhibits, as it were, mirror symmetry to the conventional retrieval technique and thus appears as its logical complement. In particular, the former promises to open up the book stocks of libraries just as effectively as conventional retrieval does in the case of data banks. On closer inspection, creative reflection would often turn out to be a variant of analogy inference and could thus be effectively supported by the reverse retrieval technique. (Authors)

Judge, A. J. N.: Representation, comprehension and communication of sets: the role of number III (Sect. 9-11 and Annexes) In: Intern. Classificat 6 (1979) No. 2, p. 92-103, 142 refs.

Examines the cognitive and other factors which tend in practice to limit the number of elements distinguished in a set, particularly for sets fundamental to social science and policy formation, such as: human needs, values, principles, problems. It is argued that the number of elements so distinguished influences significantly both the relationships perceived between the elements and the qualitative characteristics manifested by them, irrespective of the content of the set. Such effects are important in the case of the more abstract sets for which the ambiguity of verbal descriptors creates considerable problems of comprehension and communication, especially when the set of elements is used as the basis for the elaboration of a group of cooperating institutions. The representation of such sets in traditional symbol systems and in modern 2 and 3-dimensional forms, is reviewed both as a source of constraints on set formulation and comprehension of the more complex sets through which the problems of society can be better contained. Part 1 in Intern. Classificat. 5 (1978) No. 3, p. 126-133; Part II in 6(1979) No. 1, p. I5-25.

Römer, G.: Classification teaching for students of librarianship. Reflections and proposals.

In: Intern. Classificat. 6 (1979) No. 2, p. 104-108

As a contribution towards an improved teaching of classification knowledge in German library schools some seven problem areas are outlined among which the lacking clarity as to the teaching objectives, the training deficits of teachers, their isolation and the lack of teaching aids. Against these, some seven proposals for improvement are submitted. In the annex a list of topics concerning the teaching of classification and subject indexing at the Library School of Baden-Württemberg, Stuttgart are given.

Continental Europe (except France) and Far East Countries

K. G. SAUR Verlag KG Pössenbacherstraße 2b D-8000 München 71 Fed. Rep. of Germany Tel. (089) 79 89 01 Telex 5 212 067 saur d North- and South America

K. G. SAUR, Publishing Inc. 175 Fith Avenue New York, N. Y. 10010 USA Tel. (212) 477-2500 Telex 238386 kgsp ur United Kingdom, Africa, Oceania, Asia (except Far East Countries)

CLIVE BINGLEY Ltd. & K. G. SAUR Ltd. 1-19 New Oxford Street London WCIA INE United Kingdom Tel. 01 -404 48 18, Telex 24 902 bingle g France

K. G. SAUR Editeur S.A.R.L. 38, rue de Bassano F-75008 Paris France Tel. 72355-18 Telex Iso Bur. 6 30144



To FORUM WARE Viktoriastraße 8 D – 6800 Mannheim 1

Order for the international "FORUM WARE"

Please send me/us the following issues of FORUM WARE:

- □ the issues of 1979 and subsequent years until further notice, for an annual subscription fee of DM 56,—
- ☐ Send us/me information free of charge Prices include V.A.T., packing and postage.

My/our	address:	 	 	
-				

Date:	Signature: _		

Have you ever heard of Johann Beckmann?

If not: Professor of economics at the University of Göttingen (born 1739, died 1811). Beckmann coined the term "technology" and is considered its founder. Not standing still Beckmann also considered the results of technology: the commodities, the goods. Thus Beckmann is also one of the founders of Commodity Science, "Warenkunde" (Italian = merceologia, Polish = towaroznawstwo, Russian = towarowedenie, Chinese and Japanese = 商品学 as examples). At the same time Beckmann was one of the forerunners in agricultural science. Recent reprints and new translations of his works demonstrate their lasting validity.

The commodity and technology problems must urgently be tackled beyond professional and national boundaries. Right from the beginning, FORUM WARE has considered the interdisciplinarity and internationality of the problems associated with the goods to be the most important of its efforts. This is impressively demonstrated by the following analysis of the seven numbers with a total of 123 papers, which have been published so far:

INTERDISCIPLINARITY:

,	ber of apers:
General aspects	20
Historical	7
Commodity and Ethics	0
Commodity Ordering Systems	26
Commodity Science Education	7
Commodity and the Environment	9
Commodity and Health	1
Use value	3
Quality problems	7
Commodity and Technology	- 10
Advertising	3
Packaging	3
Logistics	1
Commodity and Consumer	9
Commodity Science in various countries	
Resources	5
Total of papers from 13 countries	123

FORUM WARE — Wissenschaft und Praxis ISSN 0340 –775

Journal for the promotion of commodity knowledge in research, education and practice. All the papers present the opinion of the authors.

Issued by: Deutsche Gesellschaft für Warenkunde und Technologie e.V. (DGWT) and Österreichische Gesellschaft für Warenkunde und Technologie e.V. (ÖGWT) in cooperation with Internationale Gesellschaft für Warenkunde und Technologie e.V. (IGWT), c/o Wirtschaftsuniversität Wien, Franz Klein-Gasse 1, A-1190 Wien.

Editors: outstanding professors and experts in Commodity Science from eight countries.

Languages: English, French, German, Italian

Readers: Individuals and organisations in research and education, trade and industry (marketing, materials management, logistics, engineering), public administrators, resource policy makers, economists, libraries and consumers.

Publication intervals: Annually three or four issues totalling at least 200 pages (DIN A 4 = 21 x 29,7 cm)

Orders to publishers and through booksellers.

Publishers: FORUM WARE, **Viktoriastraße** 8, D-6800 Mannheim, Telephone (0621) 406006.