

Contents – Inhalt

Editorial

Why this Journal? 1

Articles – Aufsätze

B. M. Kedrov: Concerning the Synthesis of the Sciences 3

I. Dahlberg: Zur Theorie des Begriffs (Towards a theory of the concept) 12

V. Rybatchenkov: Development of a Broad System of Ordering
for UNISIST Purposes 20

E. Wåhlin: A Common Classification for Swedish Research Projects . 21

A. J. Mayne: Progress Report on a New Scheme for the Classification
of Knowledge 27M. E. Neuenschwander: Systeme der Waren- und Aktivitätsklassifikation
(Systems for the Classification of Commodities and Activities) . 32D. Soergel: Automatic and Semi-Automatic Methods as an Aid in
the Construction of Indexing Languages and Thesauri 34

Reports and Communications

A. Neelameghan: Classification Research and Development in
India, 1968–1974 39

H. Fangmeyer: Automatic Classification and Indexing 40

K. Ostarhild: Ordnungssysteme für Warendaten 41

O. Gekeler: Warenkatalogisierung und Kommunikation über die Ware
(Commodity Cataloguing and Communication) 42J. M. Connor: Commodity Classification and Naming, their role in
information systems 43

W. de Regt: Symposium on Multilingual Thesauri 43

INER Kolloquium No. VIII 44

Symposium über den Wissenschaftsbegriff in Hannover 44

Wissenschaftssprache – Umgangssprache 44

The Classification Society 45

News – Nachrichten 45

Book Reviews – Buchbesprechungen

Maltby, A. (Ed.): Classification in the 1970's ... (by J. M. Perreault) . 47

Classification Literature 1 (1974) No. 1, Nos. 001–521 49

Bibliographies – Literature Reviews – Classification Systems and
Thesauri – Dictionaries – Proceedings – Periodicals and Serials

UDC 025.4 (05)

INTERNATIONAL
CLASSIFICATIONJournal on Theory and Practice of
Universal and Special Classification
Systems and ThesauriZeitschrift zur Theorie und Praxis
universaler und spezieller Klassifi-
kationssysteme und Thesauri

Editorial Office/Redaktion:

c/o Dr. I. Dahlberg, D-6 Frankfurt 50
Woogstr. 36a, Tel.: (0611) 52 36 90

Issue frequency/Erscheinungsweise:

2 x/ann.

Publisher/Verlag:

Verlag Dokumentation Saur KG,
POB 148, D-8023 Pullach b. München,
Jaiserstr. 13, Bundesrepublik Deutsch-
land, Tel.: (089) 79321 21, Telex
521 2067 saur d

Annual Subscription Rates/Abonnement:

DM 36,— For members of national or
international classification societies or
groups DM 27,—/Für Mitglieder nationa-
ler oder internationaler Klassifikations-
gesellschaften oder -gremien DM 27,—
Single issue/Einzelheft: DM 20,—Advertising prices/Anzeigenpreisliste
1/74

Bankverbindungen:

Postscheckkonto München 2061 41-804;
Bayer. Hypotheken- und Wechselbank,
München, Kto. Nr. 3 388 662

Printed by/Druck:

Anton Hain KG, D-6554 Meisenheim/Glan

All rights reserved/Alle Rechte vorbe-
halten. Printed in West Germany 1974

Verlag Dokumentation

Editors/Herausgeber:

Dr. phil. Ingetraut Dahlberg, D-6 Frankfurt
50, Woogstr. 36a, BRDProf. Dr. med. Dr. phil. Alwin Diemer,
Philosophisches Institut der Universität
Düsseldorf, D-4 Düsseldorf 1, Moorenstr. 5,
BRDProf. Jean M. Perreault, Director of the
University Library, University of Alabama,
P.O.B. 1247, Huntsville, Alabama 35 807,
USAProf. Arashanpalai Neelameghan,
Documentation Research and Training
Centre (DRTC), 112 Cross Road 11,
Malleswaram Bangalore-560003, India

Consulting Editors/Redaktionsbeirat:

Prof. Pauline Atherton, School of Library
Science, Syracuse University, Syracuse, N. Y.,
13210 USADipl. Math. Hermann Fangmeyer, Euratom
CCR C. E. T. I. S. (European Scientific
Information Processing Centre), I-21020
Ispra (Varese) ItalyProf. Eric de Grolier, Conseil International
des Sciences Sociales, 1, rue Miollis,
F-75 Paris 15e, FranceDr. Friedrich Lang, IBM, A-1040 Wien,
Margarethenstr. 3/4, AustriaProf. Dr. Dagobert Soergel, School of
Library and Information Services, Univer-
sity of Maryland, College Park, Md.,
20742 USAProf. Bryan C. Vickery, School of Library,
Archive and Information Studies, University
College, Gower Street, London WC 1,
Englandin collaboration with/in Zusammenarbeit mit:
Forschungsabteilung Information und Doku-
mentation des Philosophischen Instituts der
Universität Düsseldorf, D-4 Düsseldorf,
Moorenstr. 5, BRD, Prof. Dr. phil. Norbert
Henrichs

Authors of this issue/Autoren dieses Heftes:

Prof. Dr. B. M. Kedrov, Institute of the Histo-
ry of Science and Technology, Acad. of
Sciences of the USSR, Moscow K-12,
Staropansky I/5, USSR

Dr. I. Dahlberg, see above/wie oben

Mr. Ejnar Wåhlin, Konsultbyrå, Birger Jarls-
gatan 102, 114 20 Stockholm, SwedenMr. Alan J. Mayne, Research Group in
Traffic Studies, University College London,
Gower Street, London WC1E 6BT, EnglandDr. Vladimir Rybatchenkov, Division of
Scientific and Technological Documentation
and Information, Unesco, 7, Place de Fon-
tenoy, F-75 Paris 7e, FrancePräs. Max E. Neuenschwander, IEI/UCS,
4 Neuhausstrasse, CH-8044 Zürich,
Switzerland

Prof. Dr. D. Soergel, see above/wie oben

Prof. A. Neelameghan, see above/wie oben

Dipl. Math. H. Fangmeyer, see above/wie oben

Dipl. Vw. Otto Gekeler, AEG-Telefunken,
D-79 Ulm, Burgunderweg 9Mr. Raymond O'Connor, Commercial
Applications, The National Computing
Centre Ltd., Quay House, Quay Street,
Manchester M3 3HU, EnglandMr. W. F. de Regt, Special Librarian,
Ministry of Education, The Hague, Meezen-
plein 14, Netherlands

Publisher: Verlag Dokumentation Saur KG, D-8023 Pullach b. München, Jaiserstr. 13, POB 148, BRD

Tel.: (089) 793 2121, **Telex:** 5 212 067 saur d

Editorial offices: c/o Dr. I. Dahlberg, D-6000 Frankfurt 50, Woogstr. 36a, BRD, **Tel.:** (0611) 52 36 90

Issue frequency/Erscheinungsweise: 2/ann.; **Subscription/Preis:** DM 36,—/ann.

Contents page — Inhaltsfahne

This contents page may be reproduced without charge — Diese Inhaltsfahne darf gebührenfrei vervielfältigt werden (DIN 1428)

Kedrov, B. M.: Concerning the Synthesis of the Sciences.

In: Intern. Classificat. 1 (1974) No. 1, p. 3–11; also in: USSR Academy of Sciences (Ed.): Man, Science, Technology. I. Moscow 1973, p. 67–92 = Social Sciences Today. Editorial Board.

A presentation of types of processes leading to a theoretical synthesis of contemporary scientific knowledge, e. g. a synthesis by law, by correspondence, or by opposition. Internal inter-branch synthesis can be observed in four phenomena: 1) formerly, the sciences developed by differentiation, now by their integration; the other phenomena are: 2) "cementation", 3) "fundamentalization and 4) pivotization" of sciences. External synthesis is seen in the relationships existing respectively between 1) natural and social sciences, 2) natural and technological sciences, and 3) natural sciences and philosophy. The various types of processes discussed are displayed in a table. (I. C.)

Dahlberg, I.: Zur Theorie des Begriffs. (Towards a theory of the concept)

In: Intern. Classificat. 1 (1974) No. 1, p. 12–19 (in German)

A concept is regarded as the common element of both classification systems and thesauri. Reality and knowledge are not represented by words or terms but by the meanings "behind" these tokens. A concept of, say, an object, a property of an object, a process, etc. is derived from verbal statements on these as subjects and may therefore be defined as the whole of true and possible predicates that can be collected on a given subject. It is from these predicates that the characteristics of the corresponding concepts can be derived. Common characteristics in different concepts lead to relations between concepts, which relations in turn are factors for the formation of concept systems. Different kinds of relationships as well as different kinds of concepts are distinguished. It is pointed out that an orderly supply of the elements for propositions (informative statements) on new knowledge requires the construction and availability of such concept systems. (Author)

Rybatchenkov, V.: Development of a Broad System of Ordering for UNISIST Purposes

In: Intern. Classificat. 1 (1974) No. 1, p. 20–21

Outline of the functions of a Broad System of Ordering (BSO) as a switching mechanism in the UNISIST Program of Unesco. Co-operation with the Fédération Internationale de Documentation (FID), Den Haag, which in 1972 has set up for the elaboration of a Subject-field Reference Code (SRC) a Working Group (FID/SRC). Structure, notation and display of the SRC as result of the first year's discussions are mentioned as well as the use of existing experience and the future work as planned for 1974. (I. C.)

Wählin, E.: A Common Classification for Swedish Research Projects.

In: Intern. Classificat. 1 (1974) No. 1, p. 21–26

Proposal for a universal classification system on the level of subject-fields based on the observation of a continuous interdisciplinary combination of former single subject-fields. The multitude of possible combinations is shown in a "discipline matrix" of the natural sciences and technology. For the interdisciplinary field of ecology a "geometrical display" is used, showing possible combinations of natural objects with each other and in relation to their respective fields. Concludingly the difficulty in indexing research projects is pointed out. (I. C.)

Mayne, A. J.: Progress Report on a New Scheme for the Classification of Knowledge.

In: Intern. Classificat. 1 (1974) No. 1, p. 27–32

Outline of the theory of a proposed new scheme of classification of knowledge, specifying its basic assumptions and its points of departure from existing schemes, describing possible mathematical models for the scheme, and indicating the mnemonic notation and coding proposed. Progress is reported on the development of applications of the scheme to general and special library classifications and to the document collections of small organisations, groups and individuals. Possibilities for future research are outlined and further potential applications are listed. (Author)

Neuenschwander, M. E.: Systeme der Waren- und Aktivitätsklassifikation. (Systems for the classification of commodities and activities)

In: Intern. Classificat. 1 (1974) No. 1, p. 32–33 (in German)

To acquire a better survey of existing ordering systems for commodity classification, 3 different types of such systems are listed according to the different purposes they are intended to serve. They include supply-oriented systems for statistics and systems for the cataloguing of commodities in companies and administrative services, in the latter only commodities actually on the market are included. (I. C.)

Soergel, D.: Automatic and Semi-Automatic Methods as an Aid in the Construction of Indexing Languages and Thesauri.

In: Intern. Classificat. 1 (1974) No. 1, p. 34–39

Development of a framework for the description and classification of statistical and graph-theoretical methods for the determination of terms and concepts and of relationships between and among them. Discussion of the problem of terms versus concepts in this context, the 'units of text' to be used for these methods, total count versus unitwise count, and practical problems of data collection. Brief characterization of methods for the use of 1) frequency data in descriptor selection, 2) co-occurrence data to determine terminological relationships between concepts, 3) binary relationships detected in the previous step to construct global classificatory structures. (Author)

The Publisher's Practical Dictionary in 20 Languages

Edited by Dr. Imre Móra. 389 pages. ISBN 3-7940-4112-7. DM 88.00

Whether you want discuss steps in book production, translate important technical expressions in music publishing, or agree on broadcasting, television, recording on films rights in a publishing contract, THE PUBLISHER'S PRACTICAL DICTIONARY makes it easy for you and your colleagues in foreign countries to understand each other. This new dictionary gives you a total working vocabulary of some 18,000 basic terms and phrases.

10,000 sources for information about science all over the world!

World Guide to Scientific Associations

Handbook of International Documentation and Information, Volume 13
1974. ISBN 3-7940-1013-2. 481 pages. DM 98.00

This handbook contains more than 10,000 associations and groups from all fields of science and research in 134 states of all five continents. In addition to this all academies, organizations of physicians and teachers have been listed. The associations are organized by continents, then by countries and finally in mechanical alphabetical order. Each entry contains the name of the association, the abbreviation if known, the year of foundation and the address. Postal codes are given if the country in question has such a system. A detailed subject index gives information on functions and subject area for the associations with complete names.

Here are 26,000 trade- and industry-related organizations from every corner of the world!

World Guide to Trade Associations

Handbook of International Documentation and Information, Volume 12
1973. ISBN 3-7940-1012-4. 1,500 pages. DM 148.00 per two-volume-set

Complying with often-repeated requests from trades and agencies, we have decided to present to all those interested in the World Guide to Trade Associations a practical guide to associations with their addresses and phone numbers. Part 1 of this handbook contains some 15,000 addresses of European trade associations. Vol. 2 lists more than 11,000 associations in the U.S.A. and in non-European countries.

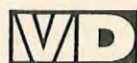
The handbook includes national and international organizations and associations of trades such as chambers of commerce and crafts, professional organizations, consumer organizations, employers' and employees' groups and organizations of the service professions.

New 6th edition – bigger, better, more comprehensive than ever!

Publisher's International Directory

Handbook of International Documentation and Information, Volume 7. 6th edition. 1974. ISBN 3-7940-1270-4. Subscription price DM 138.00 with supplement. Final list price approx. DM 160.00 with supplement.

This new 6th edition lists more than 20,000 publishers from far more than 150 countries in geographical arrangement by continent and country. In addition to the publisher's name and address, each listing contains abbreviations which indicate the subject specialities. 59 different areas are included, such as arts, history, education, science, directories, and so on. Entries are indexed by subject specialities with cross-references and by country. The supplement includes all publisher identifiers (ISBN) in numerical as well as in alphabetic order.



Detailed catalogues and pamphlets inform you about further books, journals, and serials.
Verlag Dokumentation, P.O.B. 148, D-8023 Pullach/Munich, West-Germany, Telex 5212067