

INTERNATIONAL

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CLASSIFICATION

Devoted to Concept Theory
Systematic Terminology &
Organization of Knowledge

Contents

Reflections on Teaching Subject Analysis in
the Field of Documentation

Functional Classification. I.

Line Diagrams of Hierarchical Concept
Systems

On the Informativeness of Titles

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Vol. 11 (1984) No. 2

Contents

Editorial

Education in Classification 65

Articles

G.Greiner: Some reflections on teaching subject analysis in the field of documentation 66
 A.Judge: Functional Classification. I 69
 R.Wille: Line diagrams of hierarchical concept systems 77
 B.C.Peritz: On the informativeness of titles 87

Reports and Communications

The Classification Society, North American Branch - The
 The Classification Society, European Branch - International
 Classification of Diseases. Results of WHO Meetings 1983 -
 Announcements of Forest Press, Albany, NY 90

FID/CR News 11

Next FID/CR Business Meeting - Indexing in Perspective
 Seminar at The Hague - ICIB 2 finally available! - CSSR:
 Seminar on IR Languages held at Bratislava - FRG: Applications
 in Classification. Report on the 8th Annual Conference of the
 Ges.f.Klassif. - India: Classification Society of India. -
 UK: CRG Meeting 247. - UK: Aslib Informatics Group. USA:
 ASIS SIG/CR Meetings. - Malaysia: 3rd Meeting of WG
 Information Analysis and Consolidation. Personal News 91

Classification and Indexing Research. Current Bibliography 95

Info term News

First Hispanoterm terminology course/workshop, Madrid,
 - EACROTANAL Training Seminar on Terminology, Zanzibar -
 56th Aslib Annual Conference - ISO/TC37/WG5 "Vocabulary of
 Terminology", Frankfurt - Theoretical problems of scientific
 and technical terminology and translation practice, Omsk -
 Japanese experts in computer science - Meetings 97
 TERMIA 84 - Networking in Terminology 1985 - 5th European
 Symposium on LSP - Committee on Lexicographic Terminology
 (COLT) formed 99

COCTA News

K.Janda: Concepts to data: the problem of political parties
 International Political Science Association - European Symposium -
 Progress on INTERCOCTA - COCTA Business 100

Book Reviews

B.de Finetti: Probability Theory (In German). (E.Oeser) 103
 J.Goetschalckx, L.Rolling: Lexicography in the Electronic Age.
 Proceedings, Luxemburg 7-9 July 1981 (F.W.Riggs) 104
 NVB. Sectie Wetenschappelijke Bibliotheken: Unity and
 Diversity in Subject Cataloguing (In Dutch) (A.Vasiljev) 105
 H.Lohse, R.Ludwig, M.Röhr: Statistical Procedures for
 Psychologists and Sociologists. (In German) (J.Krauth) 106
 P.Rutz: Two-valued and Many-valued Logics (In German)
 (W.G.Stock) 107

Classification Literature 11(1984)No.2 110

INTERNATIONAL CLASSIFICATION

Devoted to Concept Theory, Systematic Terminology and Organization of Knowledge

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Contents page

I.C. Vol. 11 (1984) Nr. 2

Greiner, G.: Some reflections on teaching subject analysis in the field of documentation. In: Int. Classif. 11(1984)No.2, p. 66-68, 6 refs.

The paper discusses some preliminary questions which arise when a curriculum for the field of subject analysis is being planned: Which skills are needed? What can be taught? Which are the appropriate teaching objectives, its subjects and its methods? Thirty-three teaching objectives are specified. Teaching subjects are shown also in a graphic display. (Author)

Judge, A.: Functional Classification. I.

In: Int. Classif. 11(1984)No.2, p. 69-76, 26 refs.

Reviews the problems and possibilities of classing the 20 000 international bodies and treaties described in the *Yearbook of International Organisations* as well as their preoccupations in the form of "World Problems", disciplines and occupations described in the *Yearbook of World Problems and Human Potential* (9 000 entries). Describes the design considerations for an alternative approach as compromise between the practicalities of directory production, facilitation of classification experiments, and an emphasis on incorporating richer patterns of relationship between activities to facilitate understanding of functional interjections.

The first approach was developed from *I.Dahlberg's* ICC scheme modified in the light of insights from the periodic classification of chemical elements. The result is compared to a presentation of interrelationships of different levels of inquiry and modes of experience arising from a study by *Eric Jantsch*. The resulting experimental matrix of codes (to be discussed in the second part of the article) was used to class titles by computer which were published in *Global Action Networks*, classified directory by subject and region (Vol.3 of the *Yearbook of International Organizations*). (Author)

Wille, R.: Line diagrams of hierarchical concept systems.
In: Int. Classif. 11(1984)No.2, p. 77-86, 23 refs.

The possibility of visualizing conceptual relationships by graphic representation of hierarchies has been used in the standard DIN 2331 and is demonstrated here using a set-theoretical model for hierarchical concept systems. For a fixed context it is provable that the concepts in generic relationship (subconcept - superconcept) form - as a mathematical structure - a complete lattice called the "concept lattice" of the context. Methods and results of order and lattice theory can thereby be used for concept analysis. Line diagrams, as described in DIN 2331, are studied and used a great deal in lattice theory. By introducing graded line diagrams, the use of this representation method can be considerably extended, to the point where it is possible to visualize hierarchies with several hundred concepts. It is also shown that building blocks of modified line diagrams may be understood as scales in the sense of a conceptual measurement theory. (Author)

Peritz, B.C.: On the informativeness of titles.

In: Int. Classif. 11 (1984)No. 2, p. 87-89, 11 refs.

The frequency of non-informative titles of journal articles was assessed for two fields: library and information science and sociology. The percentage of non-informative titles was 21% in the former and 15% in the latter. In both fields, the non-informative titles, were concentrated in only a few journals. The non-informative titles in library science were derived mainly from non-research oriented journals. In sociology the reasons for non-informative titles may be more complex; some of these journals are highly cited. For the improvement of retrieval efficiency the adoption of a policy encouraging informative titles (as in journals of chemistry) is recommended. (Author)

INTERNATIONAL CLASSIFICATION



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 organization
mathematics, statistics, and computer science
library and information science
archivistics and museology
journalism and communication science
industrial and commodity classification
terminology, lexicography, 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, science-theoretical bases of classification, data analyses 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.

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), Infoterm and COCTA (Committee on Conceptual and Terminological Analysis), book reviews, letters to the editor and an extensive annotated bibliography of recent classification literature, covering between 300 to 400 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 I.C. was published by K.G.Saur Verlag, München. Back issues of 1974-1980 are now available from the new publisher.

Rates:

For 3 issues/ann. (including indexes every three years):
Institutions DM 74.-; Individuals (-20%) DM 59.20, members of classification societies & groups (-30%) DM 51.80, members of Ges.f.Klassifikation (-40%) DM 44.40 + postage. - Back issues: hard copy, per issue DM 18.-, microfiche (only 1974-77) per issue DM 6.-. For air-mail delivery add DM 4.- per issue.

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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.

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 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 papers 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 with a discussion 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. text¹) and equally collected with their texts at the end of the paper under the heading Notes.

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 No.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 number of pages.

Examples:

Fugmann, R.: The glamour and the misery of the thesaurus approach. In: Int. Classif. 1(1974)No.2, p.76-86, 20 refs.

Sartori, G., Riggs, F.W., Teune, H.: Tower of Babel. On the definition and analysis of concepts in the social sciences. Pittsburgh, Pa.: Int. Studies Assoc. 1975. 107 p. = Int. Studies Occ. Paper No.6.

Illustrations should be restricted to necessary minimum.

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