

INTERNATIONAL

IC

CLASSIFICATION

Devoted to Concept Theory
Systematic Terminology &
Organization of Knowledge

Language and Language Technology

Dynamic Indexing for the
Analysis of Literary Text

On the Classification of
Fiction Literature

Consistency Rules and
Triggers for Thesauri

The ISCCR Conference

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Contents

Editorial

Knowledge Organization, Language and Literature 195

Articles

- Zimmermann, H.H.: Language and language technology 196
 Weiss, H.: Dynamic indexing for the analysis of literary text 200
 Beck, H.: Zur Klassifikation der Belletristik
 (On the classification of fiction literature) 205
 Fischer, D.H.: Consistency rules and triggers for thesauri 212

Reports and Communications

- Arrigoni, M.: Towards the construction of a thesaurus
 on the Italian business history 225
 U.K. CRG 282 226
 International Symposium on Terminology Teaching
 and Training, Granada, 24-25 June 1991 226
 MicroMATER and the General Terminological Record Format 226
 Terminology in Advanced Microcomputer Applications 226
 Ordinal Data Analysis 245

ISKO News 7

- Advances in Knowledge Organization, 3 227
 Petrov, P.: KOTA'91 at Varna: Interdisciplinary look
 at knowledge organization and terminology 227
 German ISKO-Chapter Conference 1991 228
 2nd International ISKO Conference, Madras, 26-28 Aug.92 228
 A change in the ISKO Scientific Advisory Council 228

FID/CR News 30

- Williamson, N.: The ISCCR Conference 229

Book Reviews

- (1) Agger, St., Jenson, H.: The Book House. - (2) Goodstein, L.P.,
 Pejtersen, A.M.: The Book House: System functionality and
 evaluation. - (3) Pejtersen, A.M.: The Book House: Modelling
 user's needs and search strategies as a basis for system design.
 (C.Beghtol) 233
 Union des Associations Internationales: Encyclopedia of
 World Problems and Human Potential. (Ju.Schreider) 235
 Comaromi, J.P., Satija, M.P.: Exercises in the 20th edition of the
 Dewey Decimal Classification. (J.Friis-Hansen) 238
 Holley, R.P.(Ed.): Subject control in online catalogs (W.Gödert) 238
 Smith, L.C.(Ed.): Questions and answers: strategies for using the
 electronic reference collection. (O.Oberhauser) 240
 Beispieldsammlung zu den Regeln für den Schlagwortkatalog.
 (Collection of examples concerning the Rules for the Subject
 Catalogue, RSWK) (W.Bies) 241
 Barth, E.M., Wiche, R.T.P.: Problems, functions and semantic
 roles. A pragmatists' analysis of Montague's theory of sentence
 meaning. (J.Dietze) 244

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Contents page

Vol.18(1991)No.4

Zimmermann, H.H.: **Language and Language Technology.** To Alfred Hoppe on his 80th birthday.

Int.Classif. 18(1991)No.4, p.196-199, 6 refs.

In Language Technology, theoretical concepts have to be matched with practical limits and possibilities. It is explained that there are low-level fields like spelling check, automatic hyphenation or free text indexing where word based techniques can play a considerable part even without integrating syntactic or semantic analysis. On the other hand it is claimed that, without the integration of syntactico-semantic features and world knowledge, higher sophisticated tools like machine translation (not to speak of speech recognition) will not reach a functionally acceptable level. The work and the semantically based theory of A. Hoppe is compared with these considerations and it is shown that his conception as well as the practical results can be of extreme usability for high quality language technology development.

(Author)

Weiss, H.: **Dynamic indexing for the analysis of literary text.** Int.Classif. 18(1991)No.4, p. 200-204

The article demonstrates theory and implementation of a dynamic indexing procedure for the analysis of a classic literary text (here the works of Sh.Y.Agnon). The three guiding principles for this procedure are: 1) *dynamic*, meaning the possibility to change data bases and improve them while reading, 2) *rapid access*, which is provided by multi-referencing channels leading to a specific point which is actually analyzed, 3) *maneuverability* of information into deductive and inductive channels, meaning *navigation* from text outside to a reference "inside" or from reference outside to the given text.

(Author)

Beck, H.: **Zur Klassifikation der Belletristik** (On the classification of fiction literature)

Int.Classif. 18(1991)No.4, p. 205 -211, 11 refs.

In the classification of fiction literature in public libraries its presentation on shelves and its depth analysis in card files or selective bibliographies should supplement each other. In the article some less known traditions in the English-language area of thematic classification schemes in Germany of the twenties and since World War II are investigated. Concludingly some principles in the form of theses are stated which should be observed in the subject analysis of fiction literature in order to be able to meet fully the multiplicity of readers' requests.

(Author, transl.)

Fischer, D.H.: **Consistency rules and triggers for thesauri.** Int.Classif. 18(1991)No.4, p. 212-225, 11 refs.

From the point of view of an object-oriented knowledge representation language, desirable control functions for thesauri are discussed in relation to a recently published catalogue. The background of this systems-analytical examination is an experiment in prototyping a thesaurus maintenance system for an existing thesaurus using general purpose object-oriented tools.

(Author)

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INTERNATIONAL CLASSIFICATION

IC

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 products and commodity science
terminology, lexicography and 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 survey, 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 analysis 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-synthetic 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 the International Society for Knowledge Organization (ISKO News) and the Committee on Classification Research of the International Federation for Information and Documentation (FID/CR News) as well as book reviews, letters to the editor, and an extensive annotated bibliography of recent classification and indexing literature, covering now some 500 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 IC was published by K.G.Saur Verlag, München. Back issues of 1978-1990 are available from INDEKS Verlag, too. (The 10 volumes of 1978-1987 are offered now at the highly reduced price of DM 350.-).

As of 1989, INTERNATIONAL CLASSIFICATION has become the official organ of the INTERNATIONAL SOCIETY FOR KNOWLEDGE ORGANIZATION (ISKO) and is included for every ISKO-member, personal or institutional in the membership fee (DM 50.-/DM100.-).

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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 its 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 contributions 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 on 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 lifting single numbers behind a word and equally collecting 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 titles of the publication, abbreviation of the

journal according to the ISO Standard 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 the number of pages.

Examples: Mater, E.: Human intelligence as a precondition for the machine processing of knowledge. Int. Classif. 15(1988) No.3, p.125-132

Hunter, E.J.: Classification made simple. Aldershot, GB: Gower 1988. 115p.

Illustrations should be restricted to the necessary minimum. *Graphs and diagrams* should be supplied as black and white drawings suitable to reproduction. *Half-tone illustrations* should be sharp, well-contrasted glossy prints. Illustrations should be numbered lightly with a soft pencil on the back. Numbered legends should be attached on a separate sheet.

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