* Divisions of 04, 5, 6, 78, 82 and 88 according to the Information Coding Classification (ICC) described and displayed in Int.Classif.9(1982)No.2, p.87-93 and in the International Classification and Indexing Bibliography, Vol.1.(1982).

A further division of the above scheme (by one and sometimes two levels) was published in Int.Classif.12(1985)No.3, p.147-151.
From this more detailed scheme it will be visible that subject fields may also occur in many cases on the third and also forth level of division, indicated by the number 8.

** Monographs on special topics at special subdivisions.

*** CS & T stands for Classification Systems and Thesauri
    C & I stands for Classing and Indexing

We offer to send copies of the abstracts of the references cited to anybody interested.

Language abbreviations:

bg	Bulgarian	fi	Finnish	pi	Polish		
cs	Czech	fr	French	pi	Portuguese		
da	Danish	hu	Hungarian	ro	Romanian		
de	German	it	Italian	ru	Russian		
ee	Estonian	ja	Japanese	sh	Serbo-Croatian		
en	English	li	Lithuanian	sk	Slovakian		
es	Spanish	nl	Dutch	uk	Ukrainian		

0 FORM DIVISIONS

01 Bibliographies

1-001   016.31
Prossomariti, M.: Bibliografia sull'indicizzazione 1988-1989.
(Bibliography on indexing) Orig. it.
Boll.Inf.Assoc.Ital.Bibl. Vol 31, No 1, 1991. p.39-57
Continuation of an earlier bibliography which had covered the
period 1975-1987.

1-002   016.77
Isaak, Ch.; Puchta, Ch.: Kleine Bibliographie fachsprachlicher
Untersuchungen. (Little bibliography of special language in-
vestigatio s) Orig. de. Fachsprache 13(1991)No 1-2, p.76-95
14th continuation of this bibliography, which lists titles in
alphabetical order according to the following groupings: 1.
Bibliographies, 2. Collections, 3. Special languages in gene-
ral, 4. Terminology, 5. Special language education, 6. Fre-
quency lists and minima of LSP words.

1-003   016.77
Isaak, Ch.; Katsch, L.: Kleine Bibliographie fachsprachlicher
Untersuchungen. (Little bibliography of special language in-
vestigations) Orig.de. Fachsprache 13(1991)No 3-4, p.177-191
15th continuation in the same order as before (see 1-002).

02 Literature Reviews

1-004   025
Young, J.B.: Crisis in cataloguing revisited: the year's work
in subject analysis. Libr.Resources & Techn.Serv. Vol 35, No 3
1991. p.265-282, 11 refs.
Reviews the research literature published in 1990 in the fol-
lowing order: subject cataloguing, classification, classifica-
tion in online systems, subject access, indexing, the online
environment, special materials, and special subjects.

03 Dictionaries, Terminologies

1-005   032
Junge, H.-D.: Wörterbuch Informationstechnologie. (Dictionary
of information technology) Orig. de-en. Weinheim,DE: VCH-Verl.
Ges.1990. sep.pag. ISBN 3-527-26420-5 Pt.1; 3-527-26430-2 Pt.2

1-006   032
Renouard, H.E.von: Fachwörterbuch neue Informations- und Kom-
munikationsdienste. (Special dictionary for the new informa-
tion and communication services, German-English; English-Ger-
man) Orig. de-en. Heidelberg, DE: Hüthig 1990. 278p.,
ISBN 3-7785-1801-1

1-007   032
Salinié,F.; Hubert,S.: Bilingual glossary of terms in librari-
anship and information science: English-French, French-English.
Glossaire bilingue en bibliothéconomie et science de l'inform-
ation: anglais-francais, francais-anglais. Orig. en-fr.
London: Library Services 1991. 372p.
This glossary contains about 5000 terms in library and infor-
mation science, including publishing.

1-008   036.387
Jamin, K.W. et al.: Das Software Lexikon. 2nd ed. (The Soft-
ware Lexicon) Orig.de. Ehningen bei Böblingen: Expert Verlag
und Taylorix Fachverlag 1991. 463p., ISBN 3-8169-0570-6
200 concepts from the software field are explained with ex-
amples for the most important programming languages.

04 Classification Systems & Thesauri

041 General Classification Systems and Thesauri

1-010   041.8
Beaujean, M.; Bündgen, Th., Richter, B.: SWI: Schlagwortindex
zur Systematik für Bibliotheken (SfB), Allgemeine Systematik
für öffentliche Bibliotheken (ASB), Systematik der Stadtbibli-
othek Duisburg (SSD), Teil 2. (Subject heading index to three
German classification systems in general use (SfB, ASB, SSD))
Orig.de. München: Saur 1990. VI,245p., ISBN 3-598-10830-3
The second part (supplementing Part 1 of 1986) contains those
fields which had not been covered by Part 1. It contains alto-
gether 11,662 concepts and 6,920 related terms. Every concept
received a reference to its relevant class in the systems SfB,
ASB and SSD. Terminological control considered the SWD, the
encyclopedias of Meyer and Brockhaus and special dictionaries.

1-011   041-de-2/4
Universitätsbibliothek Regensburg: Aufstellungssystematiken
18,1. Allgemeine Naturwissenschaft (TA-TD). 4.Aufl. (Shelving
system for the natural sciences in general) Orig.de. Regens-
burg, DE: Universitätsbibliothek 1990. 66p.

1-012   041-de-33; -39
Universitätsbibliothek Regensburg: Aufstellungssystematiken
18,2: Geologie und Paläontologie (TE-TZ). 4.Aufl. (Shelving
system for geology and palaeontology, 4th ed.) Orig. de.
Regensburg: Universitätsbibliothek 1990. 66p.

1-013   041-de-55
Universitätsbibliothek Regensburg: Aufstellungssystematiken
3.2: Psychologie (CL-CZ), 4.Aufl. (Shelving system for psycho-
logy, 4th ed.) Orig.de. Regensburg: Universitätsbibliothek
1990. 21p.

1-014   041-de-61
Universitätsbibliothek Regensburg: Aufstellungssystematiken
12,2: Soziologie (MN-MS). 6.Aufl. (Shelving system for socio-
logy, 6th ed.) Orig.de. Regensburg: Universitätsbibliothek
1990. 46p.

1-015   041-de-62
Universitätsbibliothek Regensburg: Aufstellungssystematiken
12,1: Politologie (MA-ML). 4.Aufl. (Shelving system for polit-
ology, 4th ed.) Orig.de. Regensburg: Uuniversitätsbibliothek
1990. 112p.

045 Bliss Bibliographic Classification

1-016   045.6-56
Foskett,D.J.; Foskett, Joy (Eds.): Bliss Bibliographic Classi-
fication, 2nd ed. Class J: Education, 1990 Revision.
London-Melbourne-Munich-New York: Bowker-Saur 1990. XXVI,80p.
After an introduction and outline of Class J the schedules are
given in 12 subject groupings with their index. Appended are
outlines of 5 auxiliary schedules and 5 classes with some im-
pact on classification from the general Bliss Classification
System.

047 Library-Bibliographical Classification

1-017   047
Methodisches Zentrum für wissenschaftliche Bibliotheken: Die
Bibliothekarisch-Bibliographische Klassifikation: adaptierte
Fassung - BBK/A. Systematische Teile. Bd.1,1 bis 5,4 - 1983-
1991. (The Library-Bibliographical Classification. Adapted
Version = BBK/A, Systematical Sections, Vols.1,1 to 5,4 - 1983
-1991) Orig.de. Berlin,DE: Meth.Zentrum f.Wissenschaftl.Bib-
liotheken 1991. (Unter den Linden 8, 0-1086 Berlin)
This volume concludes the publication of the adapted German
LBC version. The index is also available on diskette. Orders
should be sent to the above address.

048- Special Classification Systems and Thesauri

1-018   048-56
UNESCO:IBE Education Thesaurus, 5th ed. 1990, revised and en-
larged. A list of terms for indexing and retrieving documents
and data in the field of education with French and Spanish
equivalents. Orig. en, fr, es. Paris: UNESCO 1991. XII,139p.
ISBN 92-3-102723-9

1-019   048-56
Thésaurus de l'éducation UNESCO:BIE. Cinquième édition - 1990:
revisée et augmentée. Liste par facettes de termes destinés à
l'indexation et à la recherche des documents et données rela-
tifs à l'éducation, avec leurs équivalents anglais et espang-
nols (Colletion Ibedata). Orig. fr, en, es. Paris: Unesco 1991.
XII,137p. ISBN 92-3-202723-2

1-020   048-63
Kohl, E. (Ed.): Thesaurus der Formbegriffe des Verbundes der
Bibliotheken der obersten Bundesbehörden als Teil des Thesau-
rus POLITANTHES. 2.Ausg., Stand: 21.04.1989. Orig.de. Bonn, DE:
Deutscher Bundestag, Bibliothek 1989. VIII,47p., VBB-Arbeits-
hefte 11, ISBN 3-89372-006-5

1-021   048-63; -66
Deutsche Bibliothek und Bibliotheksverbund Bayern: Schlagwort-
normdatei (SWD), Teilausgabe Recht und Verwaltung. Stand: Okt.
1989. Orig.de. Augsburg: Arb.gem.f.Juristisches Bibliotheks-
und Dokumentationswesen 1990. XVII,625p., Arb.Hefte d.Arb.gem.
f.Jurist.Bibl.u.Dok.wesen 13, ISBN 3-926911-02-6

1-022   048-697
Schlagwortliste der Dokumentationsstelle der Bibliothek für
Zeitgeschichte. (Subject heading list of the documentation
center for contemporary history) Orig.de. Stuttgart: Bibliothek
für Zeitgeschichte 1991. 172p.
The list comprises altogether 4,041 entries including referen-
ces. It has the following sections: 1) Subject descriptors
(1,107); 2) Event descriptors (303), 3) Corporate bodies (298);
and 4) Person descriptors (219). The topics collected are poli-
tical comments of citizen initiatives, peace groups, Third
World Groups, foreign and exil groups, etc.

1-023   048-757
Macrothesaurus for information processing in the field of eco-
nomic and social development, 4th ed. Orig.en. Paris: OECD
1991. 375p.

1-024   048-82
Gesellschaft für Mathematik und Datenverarbeitung mbH. Infor-
mationszentrum für Informationswissenschaft (Ed.): INFODATA-
Thesaurus. Informationswissenschaft und -praxis. Stand: Okt.
1991. (Thesaurus for Information Science and Practice) Orig.de
en. Darmstadt,DE: GMD-IZ (Dolivostr. 15) 1991. 150p.
Contains some 900 descriptors and 900 nondescriptors, the for-
mer with their English equivalents and their conceptual envi-
ronment. There are 4 parts: 1) Descriptors in alphabetical or-
der, Geographic names, English-German index of descriptors,
English-German index of geographical names. The introductory
text shows the structure of the thesaurus, explains searches
with it and gives also indexing guidelines.

1-025   048-93
Systematiken für Öffentliche Musikbibliotheken: rev.Fassung.
(Classification system for public music libraries, rev.ed.)
Orig.de. Forum Musikbibl., No 2, 1991. p.109-156
Preprint of the section for scores. The system consists of 22
main groups, indicated by letters with numbers for the further
subdivisions.

1-026   048-99; 048-984
Kersten, D.B.: Subject headings for church or synagogue libra-
ries, 2nd rev.ed. Orig.en. Church and Synagoge Libr.Associa-
tion 1990. 47p.

05 Periodicals and Serials

1-027   05.13
Rival, I. (Ed.): Order. A Journal on the Theory of Ordered
Sets and its Applications. Orig. en. Dordrecht,NL: Kluwer Aca-
demic Publishers. Vol.1, No.1, 1984; Vol.8, No.1, 1991.
ORDER is a specialist journal devoted to the theory of order
and its applications. It aims at being an authoritative forum
on new and inportant developments in the subject, especially
those with applications to computer science and operations re-
search. For instance, ORDER arises in complexity, computatio-
nal geometry, data structures, scheduling, search and sorting.
ORDER occurs throughout mathematics and especially in algebra,
combinatorics, geometry, model theory, set theory and topolo-
gy. This abundance and diversity throughout the mathematical
landscape enriches and invigorates the theory of order itself.

1-028   056.14
Ng,P.A.; Ramamoorthy,C.V., Seifert,L.C., Yeh,R.T.: Journal of
Systems Integration. Orig.en. Boston/Dordrecht/London: Kluwer
Academic Publ. Vol.1, No.1, 1991.
This new quarterly journal is apparently meant for articles
only. In his Editorial, L.C.Seifert states that effective sys-
tems integration embodies four critical steps: 1) Process cha-
racterization - understanding the current process capabili-
ties, 2) Reengineering and simplification of processes with a
system perspective, 3) Convergence on a common data language
and common system architecture, 4) Automation of the processes
and systems. The first issue of the journal contains the fol-
lowing articles: 1-028a Hadj-Alouane, N.B., Chaar, J.K., Nay-
lor, A.W.: Developing control and integration software for
flexible manufacturing systems. - 1-028b Blum, B.I.: Integra-
tion issues elucidated in large-scale information systems de-
velopment. - 1-028c Weber, H.: The integration of reusable
software components. - 1-028d Mills, J.A.: On OSCA architec-
ture characterization of network functionality and data. -
1-028e Rossak, W., Ng, P.A.: Some thoughts on systems integra-
tion: A conceptual framework.

1-029   056.715
Fetzer, J.H.: Minds and Machines. Journal for Artificial Intel-
ligence, Philosophy and Cognitive Science. Orig.en. Dordrecht,
NL: Kluwer Academic Publ. 4 issues/yr. Vol.1, No.1, 1991
Editors and Editorial Board Members are all from US Academic
Institutions. The editorial focus is on machines and mentali-
ty, knowledge and its representation, epistemic aspects of
computer programming, connectionist conceptions, artificial
intelligence and epistemology, computer methodology, computa-
tional approaches to philosophical issues, philosophy of com-
puter science, simulation and modelling, and ethical aspects
of artificial intelligence. The issues contain articles and
book reviews. The articles of Vol.1, issue 3: 1-029a Brakel,J.
van: Meaning, prototypes and the future of cognitive science.
1-029b Preston, B.: AI, anthropocentrism, and the evolution of
'Intelligence'. - 1-029c Hadley, R.F.: A sense-based, process
model of belief. - 1-029d Antony, M.V.: Fodor and Pylyshyn on
connectionism.

1-030   056.77
American Society for Testing and Materials, Philadelphia, PA:
ASTM Standardization News. Vol 19, No 12, 1991. p.30-58
The issue features the activities of ASTM's Committee on Ter-

minology and the Technical Advisory Group to ISO/TC37 that
ASTM sponsors. (ASTM Standardization News is published monthly
by the American Society for Testing and Materials, 1916 Race
Street, Philadelphia, PA 19103, USA. The contents:
1-031 Ellis, W.P.: Standardization of terminology in ASTM: The
historical perspective. - 1-032 Strehlow, R.A.: Terminology
management in ASTM - the issue is quality. - 1-033 Wright,S.E.:
Lexicography versus terminology. - 1-034 Pratt, H.T.: Terminol-
ogy management in ASTM Committees. - 1-035 Shupak,J.: Keywords
and index terms in standards indexing. - 1-036 Dumas, B.K.:
Humpty Dumpty and the law. - 1-037 Wright, S.E., Sperati, C.A.:
U.S.participation in ISO/TC37 on Terminology (Principles and
Construction).

06 Conference Reports, Proceedings

1-038   06.85-07
Bengtson, B.G.; Hill, J.S. (Eds.): Classification of library
materials: Current and future potential for providing access.
New York: Neal-Schuman 1990. 196p., ISBN 1-55570-027-6
13 papers of an institute held in July 1985, prior to the ALA
Conference in Chicago.
1-039 Behr, M.D.: (Book review on 1-038) in J.Acad.Librnship
Vol 17, No 3, 1991. p.164-165

1-040   06.87-04-13/16
Hoberg, R.: Book review of Arntz, R.(Ed.): Textlinguistik und
Fachsprache. Akten des Internationalen Übersetzungswissen-
schaftlichen AILA-Symposiums, Hildesheim, 13.-16.April 1987.
Hildesheim, etc.: G.Olms 1988. 497p.. Orig.de. Fachsprache Vol
13, No 1-2, 1991. p.58-59

1-041   06.89-03-21/23
Jones, K.P. (Ed.): Prospects for Intelligent retrieval. Proc.of
a Conf., King's College, Cambridge, 21-23 March 1989. Orig.en.
London: Aslib 1990. 359p.
Here are a few papers from this conference: 1-041a Duncan,E.B.
A concept-map thesaurus as a knowledge-based hypertect inter-
face to a bibliographic database. - 1-041b Wu, Z.: Automatic
indexing of Chinese texts. - 1-041c Cousins, S.A., Enser, P.G,
B., Hartly, R.J.: Enhancing the subject search performance of
online public access catalogues. Experiments with query repre-
sentation. - 1-041d Paice, C.D.: The automatic generation and
evaluation of back-of-book indexes.

1-042   06.89-04
Bryant,P.G.: Book review of Opitz, O.(Ed.): Conceptual and nu-
merical analysis of data. Berlin-Heidelberg: Springer-VI.1989.
XXV,530p. Orig.en. J.Classif. Vol 8, No 2, 1991. p.282-283

1-043   06.89-11-6/10
Römer, G.: Sacherschließung im Verbund: Vorträge, Materialien
u.Arbeitsergebnisse eines Fortbildungskurses d.Landes Baden-
Württemberg, Oberwolfach-Walke, 6.-10. Nov.1989. (Subject in-
dexing in a library network: Papers, materials and results of
a further education course) Orig.de. Karlsruhe,DE: Badische
Landesbibliothek 1990. 275p.

1-044   06.90-05-14; 85
Spaulding, A.E.; Thomas, A.R.: Book indexing: principles and
techniques. Orig.en. J.Educ.Libr.Inform.Sci. Vol 31, No 3,
1991. p.258-260
Report on the seminar held May 14, 1990 in New York.

1-045   06.90-08-14/18
Bakewell, K.G.B.: Tools for Knowledge Organization and the Hu-
man Interface, 14-17 Aug.1990. Darmstadt. International Socie-
ty for Knowledge Organization. Orig. en.
Indexer Vol 17, No 3, 1991. p.206-208
Report on the first international ISKO Conference.

1-046   06.90-08-14/18
Advances in Knowledge Organization (1991): Tools for Knowledge
Organization and the Human Interface: Proceedings.... Orig. en.
ECSSID Bull. Vol 13, No 1(44), 1991. p.42-44
Report on ISKO and on the first international conference based
on the two proceedings volumes published.

1-047   06.90-08-14/18
ISKO Forum in Darmstadt. Orig.en. ALCTS Newsletter Vol 1, No 8
1990. p.78

1-048   06.90-09-17/18; 4858-66
Meyer, H.B.: Rechtsbegriffe in den RSWK und der SWD. (Law con-
cepts in the "Rules for the Subject Heading Catalogue and the
Standard Subject Heading List) Orig.de. Recht, Bibliothek, Dok.
Vol 20, No 3, 1990. p.158-160
Report on the meeting of SWD consultants at the university li-
brary of Augsburg, 17-18 Sept.1990.

1-049   06.90-11-1/2
Ammersbach, K.: Intelligente Schnittstellen zu Informationssy-
stemen. (Intelligent interfaces to information systems). In-

ternationale Arbeitstagung vom 1.-2.November 1990 in Darmstadt Orig.de. Nachr.Dok. Vol 42, No 2, 1991. p.143-146
The report on this international workshop, organized by IPSI of the GMD, Technical University of Darmstadt, the University of Colorado and GI, the German Society of Infomatics summarizes the papers presented (by G.Knorz, B.Vickery, A.M.Pejtersen, P.Bräunling, K.Ammersbach, J.U.Möller, R.Hammerwöhner, J.C.Manley, J.G.Carbonell, W.Wahlster, H.-D.Böcker, W.Kintsch, A.Lemke, C.Boyle, U.Glavitsch, T.Green, and G.Fischer.

1-050   06.90-11-04
Humphrey, S.M.; Kwasnik, B.H. (Eds.): Advances in Classification Research. Proceedings of the 1st ASIS SIG/CR Classification Research Workshop, held at the 53rd ASIS Annual Meeting, Toronto, Ont., Canada, Nov.4, 1990. Orig.en. Medford,NJ: Learned Information 1991. XIV,172 p., ISBN 0-938734-53-9
The table of contents includes a novum: indexing terms have been added to the titles. Subsequently two indexes follow: a subject index to the table of contents and a name index to the table of contents which includes systems, software, affiliations, sponsors, databases, etc. The following 20 papers were presented on Nov.4, 1990:
1-051 Anderson, J.D.: Ad-hoc, user-determined classified displays based on faceted indexing. - 1-052 Bearman, D.; Petersen, T.: Retrieval requirements of faceted thesauri in interactive information systems. - 1-053 Breton,E.J.: Functional representation of technology. - 1-054 Cox,B.B.: Improving intellectual access to the U.S.Patent Classification. - 1-055 Dalrymple,P.W. Younger,J.A.: Working paper on the relationship between subject indexing principles and online subject searching strategies. - 1-056 Durin, B., Rames, E.: A classification model for reusable software components. 1-057 Fernandez,M.J.; Eastman,C.M.: Basic taxonomic structures and levels of abstraction. - 1-058 Glasgow, J.: Imagery and classification. - 1-059 Hirtle, St.C.: Ordered trees: A structure for the mental representation of information. - 1-060 Krovetz, R.: Viewing the dictionary as a classification system. - 1-061 Liddy,E.D.; Herts,C.A., Doty,Ph. Roget's International Thesaurus: Conceptual issues and potential applications. - 1-062 Maybury, M.T.: Generating natural language definitions from classification hierarchies. - 1-063 Micco, M.: Report on linking subject headings to LC Classification numbers and suggestions for automating the classification schedules for the explicit purpose of improving subject access in online public access catalogs. - 1-064 Napoli, A.; Ducournau, R., Laurenco, C.: An approach to object-oriented classification. - 1-065 Palmer,J.D.; Liang,Y., Wang,L.: Classification as an approach to requirements analysis. - 1-066 Rockmore, M.: Computer-aided knowledge engineering for corporate information retrieval. - 1-067 Samson, D.: Development of a requirements classification scheme for automated support of software development. - 1-068 Smith, Ph.J.; Denning, R., Shute, St.J., Nonmore, L.F.: Toward the development of semantically-based search systems. - 1-069 Stephens, L.M.: The classification of semantic relations based on primitive properties. - 1-070 Ventura Conway, Ch.: Need for semantic classification of maintenance information.

1-071   06.90-09-5/7
Vidick, J.L. (Ed.): 13th International Conference on Research and Development in Information Retrieval. Proceedings. Brussels, Belgium, 5-7 Sept.1990. Orig.en. New York: ACM. Special Interest Group on Information Retrieval (SIGIR) 1990. 513p.
Some of the papers of this conference were the following:
1-072 Huether, H.: On the interrelationship of dictionary size and completeness. - 1-073 Kimoto,H., Iwadera,T.: Construction of a dynamic thesaurus and its use for associated information retrieval. - 1-074 Halin, G.; Crehange,M., Kerekes,P.: Machine learning and vectorial matching for an image retrieval model EXPRIM and the system RIVAGE. - 1-075 Hoppe, H.U.; Ammersbach, K., Lutes-Schaab, B., Zinßmeister, G.: The EXPRESS system.

1-076   06.90-10-3/5; 757
Deen,S.M.: CKBS'90. Proceedings of the International Working Conference on Cooperative Knowledge Based Systems, 3-5 Oct. 1990, University of Keele, UK. Orig.en. Berlin-Heidelberg: Springer Verl.1991. XIV,327p., DM 84.-, ISBN 3-540-19649-8
First conference to bring together distributed database (DDB) and distributed AI (DAI) experts to discuss the next generation of knowledge based systems, namely Cooperating ones.
The papers are grouped under six headings: Cooperation framework - DB perspectives; - AK perspectives; Conflict resolution strategy; Knowledge revision; Multiagent development models; Interaction In data/knowledge bases.

1-077   06.91
Karagiannis,D.: Database and expert systems applications. Proceedings of the International Conference in Berlin, 1991. Orig. en. Wien-New York: Springer Verlag 1991. XIV,370p., 351 figs., ISBN 3-211-82301-8
The book aims at presenting a large spectrum of already implemented or just being developed databases and expert systems. Contributions cover new requirements, concepts for implementations (e.g. languages, models, storage structures), management of meta-data, system architectures, and experiences gained by using traditional databases in as many areas as possible.

1-078   06.91-06-7/10; 79
Johnson, J.E.: Translation-oriented Terminology Workshop, Kent State University, Institute for Applied Linguistics, 7-10 June 1991. Orig.en. Newsletter for Terminol.& Knowl.Transfer, No 3-4 1991. p.11-12

1-079   06.91-06-12/14; 77.99
Datta,J.: The American Society for Testing and Materials (ASTM) Symposium on "Standardizing Terminology for Better Communication: Practice, Applied Theory and Results", Cleveland, 12-14 June 1991. Orig.en. Newsletter for Terminol.& Knowl.Transfer, No 3-4, 1991. p.12-13
Also in IITF News (1991)No.1-3, p.10-11

1-080   06.91-06-13/16
Program for the Joint Meeting of the Psychometric Society and Classification Society of North America, Rutgers University, New Brunswick, 13-16 June 1991. Orig. en. J.Classif. Vol 8, No 2, 1991. p.287-294
Lists the approx. 100 papers presented at the conference.

1-081   06.91-06-23/24
Fuhr, N. (Ed.): Information Retrieval. GI/GMD-Workshop, Darmstadt, Juni 1991. Orig.de, en. Berlin-Heidelberg: Springer Verlag 1991. VII,162p., ISBN 3-540-54618-9
The volume contains the following 13 papers of the Workshop.
1-082 Frei, H.P.; Meienberg, S., Schäuble, P.: The perils of interpreting recall and precision values. - 1-083 Frei, H.P.; Meienberg, S.: Evaluating weighted search terms as Boolean queries. - 1-084 Tzeras, K.: Zur Aufwandsabschätzung bei der Entwicklung eines Indexierungswörterbuches. (On assessing the necessary work in developing a dictionary for indexing). - 1-085 Pfeifer, U.: Entwicklung linear-iterativer und logistischer Indexierungsfunktionen. (Developing of linear-iterative and logistical indexing functions). - 1-086 Willenborg, J.: ATLAS-Pflesaurus: Ein objektorientiertes System zur Unterstützung der Thesauruspflege. (An object-oriented system to support thesaurus maintenance). - 1-087 Muhr,T.: ATLAS/ti - ein Interpretations-Unterstätzungs-System. (An interpretation support system). - 1-088 Amstutz, H.; Holländer-Thönssen, B.: Elektronische Ablage und Archivierung auf der Basis eines Database Management Information Retrieval Systems: Die Bedürfnisse, das Angebot, die Realität. (Electronic storage on the basis of a database management information retrieval system: Needs, offer, and reality). - 1-089 Englmeier, K.: WIDAB - Konzeption und Pilotrealisierung eines experimentellen Retrieval Systems. (Conception and pilot study of an experimental retrieval system). - 1-090 Augsburger,W., Rieder, H.K., Schwab, J.: Wissensbasiertes, inhaltsorientiertes Retrieval statistischer Daten mit EISREVU. - (Knowledge-based, contents-oriented retrieval of statistical data). - 1-091 Münzenberger, M.: Forensisches Informationssystem Handschriften. Ein Beispiel für ein klassifizierendes Rechercheverfahren. (The legal information system for manuscripts. An example for a classifying retrieval process). - 1-092 Herrmann,J.; Meiser,D.: Suche in Volltextdatenbanken mit Unterstützung von Hypertext. (Searching in full text data bases with the support of hypertext). - 1-093 Merkl, D.; Min Tjoa, A., Vieweg, S.: Eine Hypertext-Benutzerschnittstelle für ein juristisches Volltext Information Retrieval System. (A hypertext user interface for a legal full text information retrieval system). - 1-094 Herczeg,J.; Hohl,H., Ressel, M.: HyperQuery - Ein Anfragesystem mit graphischer Benutzeroberfläche. (HyperQuery - a query system with a graphic user interface).

1-095   06.91-06-24/25
Womser-Hacker,Ch.: Information Retrieval. Workshop der Gesellschaft für Informatik (GI) in Darmstadt am 24.u.25.Juni 1991 und der Gesellschaft für Mathematik und Datenverarbeitung. (GMD) Orig.de. Nachr.Dok. Vol 42, No 6, 1991. p.426-427

1-096   06.91-06-24/28; 18
Williamson, N.: The ISCCR Conference. Orig.en. Int.Classif. Vol 18, No 4, 1991. p.229-232
Extensive report on the 5th International Study Conference on Classification Research, held in Toronto, 24-28 June 1991.

1-097   06.91-07-2/6
International Conference on "Terminology, Standardization and Technology Transfer" (TSTT'91), Beijing (China), 2-6 July 1991 Orig.en. Infoterm Newsletter, No 62, 1991. p.2-3

1-098   06.91-08-6/9
IFCS-91 Programme, August 6-9, Heriot-Watt University, Edinburgh, Scotland. Orig.en. J.Classif. 8(1991)No 2, p.295-298
List of the 88 titles of papers given at the 3rd Conference of the International Federation of Classification Societies arranged in the groupings of the conference sections.

1-099   06.91-09
Christaller, T. (Ed.): GWAI-91. 15.Fachtagung für Künstliche Intelligenz, Bonn, September 1991. Orig.de, en. Berlin-Heidelberg: Springer Verlag 1991. IX,273p., ISBN 3-540-54558-1
Proceedings volume of the 15th Conference on Artificial Intelligence with the 29 refereed papers. Their emphasis was on

deduction, language processing, knowledge representation and expert systems. Other topics include machine learning, planning, automatic programming and connectionism.

1-100   06.91-09
Kaindl,H. (Ed.): 7.österreichische Artificial-Intelligence Ta- gung. (Seventh Austrian Conference on Artificial Intelligence, Wien, Austria, Sept.1991. Proceedings) Orig.de, en. Berlin-Hei- delberg: Springer Verlag 1991. VIII,180p., ISBN 3-540-54567-0
The volume contains 16 refereed papers and two invited papers, mainly on the topics of 'natural language', 'knowledge-based systems', 'logic' and 'inference'.

1-101   06.91-09-12/13
Third Joint Inter-Agency Meeting on Computer-assisted Termino- logy and Translation, Geneva, 12-13 September 1991. Orig.en. Infoterm Newsletter, No 62, 1991. p.3-4
Representatives of 33 United Nations agencies took part in this meeting. Reports were given on the development of data banks in a number of translation and terminology services within the UN system.

1-102   06.91-09-16/20
Petrov, P.: KOTA'91 at Varna: Interdisciplinary look at knowl- edge organization and terminology. Orig.en. Int.Classif. Vol 18, No 4, 1991. p.227-228, (ISKO News 7)

1-103   06.91-10-7/8
International Symposium on Terminology and Documentation in Specialized Communication (T&D'91), Hull (Canada), Oct.1991. Orig.en. Infoterm Newsletter, No 62, 1991. p.4

1-104   06.91-11-12/14
Walker,D.G.: Conference Report on the Third Infoterm Symposium "Terminology Work in Subject Fields", held from 12-14 November 1991 in Vienna. Infoterm Newsletter, No 62, 1991. p.1-2

09 Standards, Guidelines
See also Section 814

1-105   09.31
The system of standards for information, librarianship and the publishing trade. Indexing of documents. General requirements of systematization and subject cataloguing. Orig. ru. Moskva 1990. GOST 7.59-90.

1-106   09.31/2
Documentation. Methods for examining documents, determining their subjects and selecting indexing terms. Orig.es. Rev.esp. doc.cient. 14(1991)No 1, p.57-63, PNE 50-121; ISO 5963-1985

1 THEORETICAL FOUNDATIONS

12 Conceptology in Classification

124   Knowledge Representation
     See also 1-147

1-107   124
Lavrov, S.S.; Tsejtin, G.S.: What are knowledge representation and knowledge use in computer science?. Orig. ru. Nauchno-tekhn.inform., Ser.2, No 5, 1989. p.2-7

1-108   128-82
Green, R.: The profession's models of information: a cognitive linguistic analysis. Orig.en. J.Doc. Vol 47, No 2, 1991. p.130-148, 17 refs.
The study establishes three predominant cognitive models of information and the information transfer process manifest in the library and information science based on a linguistic an- alysis of phrases incorporating the word 'information' from a random sample of abstracts in the LISA database. The findings suggest that the field lacks a coherent model of information transfer and that the existing model of information retrieval is mechanistic, oblivious to the cognitive models of end users.   (Author, abbreviated)

13 Mathematics in Classification
See also 1-027 and the entire section 25

1-109   132; 252
Miyamoto, S.: Fuzzy sets in information retrieval and cluster analysis. Orig.en. Dordrecht, NL: Kluwer Academic Publ. 1990. X,259p.
1-110 Hathaway, R.J.: (Book review of 1-109). Orig.en. J.Classif. Vol 8, No 2, 1991. p.284-286

1-111   132
Roberts, F.S. (Ed.): Application of combinatorics and graph theory to the biological and social sciences. Orig. en. Berlin-Heidelberg-New York: Springer Verl. 1989. IX,345p.

1-112 Godehardt, E.: (Book review of 1-111). Orig.en. J.Classif. Vol 8, No 2, 1991. p.269-270

139 Informetrics

1-113   139
Special Issue: Informetrics. Orig.en. Inform.Process.& Manage- ment Vol 28, No 1, 1992. 151p.
The introductory article defines the scope and significance of informetrics and relates it to earlier fields of bibliometrics and scientometrics. It also identifies the phenomena studied by informetricians and describes the major contributors in the past to the field as well as current emphases.
1-114 Tague-Sutcliffe, J.: An introduction to informetrics. – **1-115** Sichel,H.S.: Anatomy of the generalized inverse Gaussian -Poisson distribution with special applications to bibliome- tric studies. – **1-116** Burrell, Qu.L.: The Gini Index and the Leimkuhler Curve for bibliometric processes. – **1-117** Egghe,L.: Duality aspects of the Gini Index for general information pro- duction processes. – **1-118** Rousseau, R.: Two remarks on the preceding paper by L.Egghe. – **1-119** Glänzel, W.: On some stop- ping times of citation processes. From theory to indicators. – **1-120** Tabah, A.N.: Nonlinear dynamics and the growth of liter- ature. – **1-121** Bookstein, A.; O'Neill,E., Dillon,M., Stephens, D.: Application of loglinear models to infometric phenomena. **1-122** Bierbaum, E.G.; Brooks, T.A., Brooks, R.M.: Subject con- trol of the literature of Acquired Immunodeficiency Syndrome (AIDS). – **1-123** Pao, M.L.: Global and local collaborators: A study of scientific collaboration. – **1-124** Bonzi, S.: Trends in research productivity among senio faculty. – **1-125** Wolfram, D.: Applying infometric characteristics of databases to IR system file design, Pt.1: Informetric models, Pt.2: Simulation comparisons. –

1-126   139
Egghe,L.; Rousseau,R.: Informetrics 89/90: Selection of papers submitted for the 2nd International Conference on Bibliome- trics, Scientometrics and Informetrics, 5-7 July 1991, London, Ont. Orig.en. New York, etc.: Elsevier 1991.
The contributions cover a wide spectrum, emphasis has been laid, though, on methodological considerations. B.C.Brookes is concerned with defining the field of knowledge whereas the other contributions are application or method-oriented.

1-127   139
Bonitz, M.: Scientometrics research in the GDR. Orig.en. Scientometrics Vol 18, No 1/2, 1990.

1-128   139
Daniel,H.-D.; Fisch, R. (Eds.): Scientometrics research in the FRG. Orig.en. Scientometrics Vol 18, No 5/6, 1990.

14 Systems Theory in Classification
See also 1-028

15 Psychology and Classification

1-129   154
Fisher,D.H.Jr.; Pazzani,M.J., Langley, P. (Eds.): Concept for- mation: Knowledge and experience in unsupervised learning. Orig.en. San Mateo,CA: Morgan Kaufmann Publ. 1991. XVI,472p.
The book has been divided into the following three sections: (1) Inductive approaches to concept formation, 2) Knowledge and experience in concept formation, (3) The utility of con- cept formation in intelligent behavior. (Index p.463-472)
1-130 Fisher, D.; Pazzani, M.: Computational models of concept learning. – **1-131** Anderson, J.R.; Matessa, M.: An incremental Bayesian algorithm for categorization. – **1-132** Martin, J.D.; Billman,D.: Representational specificity and concept learning. **1-133** Richman, H.B.: Discrimination net models of concept for- mation. – **1-134** Thompson, K.; Langley, P.: Concept formation in structured domains. – **1-135** Fisher,D.; Pazzani, M.: Theory- guided concept formation. – **1-136** Mooney, R.J.: Explanation- based learning as concept formation. – **1-137** Ross, B.H.; Spal- ding, Th.L.: Some influences of instance comparisons. – **1-138** Wisniewski, E.J.; Medin, D.L.: Harpoons and long sticks: The interaction of theory and similarity in rule induction. – **1-139** Yoo, J.; Fisher, D.: Concept formation over problem-sol- ving experience. – **1-140** Fisher, D.; Pazzani, M.: Concept for- mation in context. – **1-141** Reich, Y.; Fenves, St.J.: The for- mation and use of abstract concepts in design. – **1-142** Iba,W.; Gennari, J.H.: Learning to recognize movements. – **1-143** Scott, P.D.; Markovitch, Sh.: Representation generation in an explor- atory learning system. – **1-144** Simon, T.; Newell, A., Klahr, D.: A computational account of children's learning about number conservation.

16 Development of Science and Classification

1-145   162
Tripathi,S.R.: Book review of Sharma,P.S.K.: Universe of knowl- edge and research methodology. Delhi: Ken Publ.1990. 165p. Orig.en. Herald Libr.Sci. Vol 29, No 3-4, 1990. p.265-6

17 Problems in Classification

1-146   173
Schreider, J.: Book review of Union des Associations Internationales: Encyclopedia of World Problems and Human Potential. 3rd rev.ed. München-New York-London: K.G.Saur 1991. Vol.1: World Problems, 1187p., Vol.2: Human Potential, 954p. Orig.en. Int.Classif. Vol 18, No 4, 1991. p.235-238, 1 ref.

1-147   176; 124
Hilal, D.K.; Soltan, H.: A suggested descriptive framework for the comparison of knowledge-based systems methodologies. Orig. en. Expert Systems Vol 8, No 2, 1991. p.107-114, 22 refs.

1-148   179
Dahlberg,I.: Knowledge organization in the 1990s: Basics, problems, objectives. Orig.hu. Tudomanyos es Müszaki Tajekoztatas Vol 38, No 11, 1991. p.470-477, 17 refs,
(Translation from German by M.Domokos and R.Ungvary. Paper given at a meeting of the Hungarian Library Association, May 16, 1991, Budapest).

18 Classification Research
See also 1-050, 1-096

1-149   189
Annual Review of OCLC Research. July 1990-June 1991. Orig.en. Dublin, OH: Online Computer Library Center, Inc. 1991. X,58p. This volume contains among others the descriptions of the following research fields pertaining to knowledge organization:
1-150 Weibel, St.L.: Capturing tables of contents: Pilot study. - 1-151 Vizine-Goetz, D.: Cataloging productivity tools. - 1-152 Stephens, D.J.: FastCat. - 1-153 Dillon,M.: Internet resources. 1-154 Chang,Roy; Obsolete Library of Congress Subject Headings. 1-155 O'Neill, E.T.: Record matching for authority control. - 1-156 Warner,A.J.: Automatic hierarchical organization of phrases using machine-readable dictionary information. - 1-157 Drabenstott, K.M.: Determining the content of machine-readable subdivision records. - 1-158 Srinivasan, P.: Expert system interface to Library of Congress Subject Headings.

1-159   189
Integrierte Publikations- und Informationssysteme. Orig.de. GMD-Spiegel, No 1, 1991. p.16-57
With an introduction by the director of the center IPSI (Integrated Publication and Information Systems) at the GMD in Darmstadt, the issue presents the following 8 articles:
1-160 Neuhold, E.J.: Introduction. - 1-161 Thüring, M.; Hannemann, J.: Die Schrecken des Stils oder Schreiben... was ist das überhaupt? (Frightening of style: or writing, what does it mean anyhow?). - 1-162 Putz, W.: IS-News: Architektur und technische Aspekte. 1-163 Mayer, Elisabeth: Die automatische Erzeugung von Texten (Automatic text production). - 1-164 Ockenfeld, M.: Persönliche elektronische Zielpublikationen - wozu? (Personal electronically aimed-at publications - for what?) - 1-165 Fischer,D.; Möhr, W.: Lexikon-Redaktion: eine Herausforderung für Computer-Assistenz beim Publizieren. (Lexicon editing: a challenge for computer-assistence in publishing). - 1-166 Klas, W.: Was heißt eigentlich "objekt-orientiertes Datenbanksystem? (What does is mean: "object-oriented database system"?). - 1-167 Fankhauser, P.: Wenn Datenbanken miteinander "reden". (When databases talk to each other). - 1-168 Ammersbach, K.: Benutzerunterstützung im Faktenretrieval. (User support in retrieving facts).

2· STRUCTURE AND CONSTRUCTION OF CS & T

21 General questions of CS & T

1-169   213
Sbitnev, S.A. et al: Automation of the process of selection of documents according to a subject profile. Orig.ru. Sov.Bibl., No 3, 1990. p.56-60

1-170   2158-51/4
Humphreys, B.: Metathesaurus and semantic network. Orig.en. Int.Inform.Communicat.& Educ. Vol 10, No 1, 1991. p.104-106
Survey on the project of the Unified Medical Language System (UMLS), its knowledge sources and its participants.

22 Elements of CS & T

1-171   225.387
Prieto-Diaz, R.: Implementing faceted classification for software reuse. Orig.en. Communicat.ACM Vol 34, No 5, 1991. p.89-97, 9 refs.
Brief description of the CTE Data Services' Asset Management Program and the steps taken at the Contel Technology Center for furthering reuse technology. Discussions on the lessons learned in these two experiences are included.

1-171a   227; 236
Paice,Ch.D.: A thesaural model of information retrieval. Orig. en. Inform.Process.& Management Vol 27, No 5, 1991. p.433-447, 34 refs.
The paper proposes that topic representations should consist of excerpts from a domain thesaurus, generated by a spreading activation technique. Existing thesauri would not be adequate for this purpose, ideas are offered on how suitable thesauri might be constructed.

23 Construction of CS & T
See also 1-073, 1-171a, 1-360

1-172   237; 6375
Rasch, M.: THEOBALD - ein EDV-gestützter Thesaurus. (THEOBALD - a computer-supported thesaurus) Orig.de. Nachr.Dok. Vol 43, No 1, 1992. p.11-18, 4 refs.
THEOBALD is the supplement to the archiving system ARCHIBALD.

24 Relationships
See also 1-311

1-173   243
Blom, A.; Kenworthy, Y.E.: Principle of contextualization in the organization of knowledge as opposed to generic-hierarchical classification (theoretical approaches to bibliographic classification). Orig.af. S.Afr.J.Libr.Sci. 58, 1990. p.328-35

1-174   243
Chowdhury, G.G.; Mahapatra, M.: Scope of relational analysis in studying the concept interrelationship in subject literature. Orig.en. Int.Inform.Communicat.& Educ. 10 (1991) No 1, p.67-74, 10 refs.
The authors used the theory of relational indexing proposed by Farradane.

1-175   243; 248-51/4
Rada, R.; Barlow, J., Potharst,J., Zanstra, P., Bijstra, D.: Document ranking using an enriched thesaurus. Orig.en. J.Doc. Vol 47, No 3, 1991. p.240-253, 20 refs.
The paper shows that when a query explicitly mentions a particular non-hierarchical relation, the retrieval algorithm benefits from the presence of such relations in the thesaurus. The algorithms were applied to the Excerpta Medica bibliographic citation database.

1-176   243
Schulz, Ursula: Was ist sinnvolle Schlagwort-Syntax (eine Polemik). Orig.de. Bibliotheksdienst 25(1991)No 2, p.185-195
By application examples to the RSWK paragraphs 323 and 219,2 it is shown that the user will not be able to decode the RSWK syntax which, however, is essential for online retrieval.

1-177   243
Wereszczynska-Cislo, B.: Defining the descriptor language. Orig.pl. Zagadnienia Informacji Naukowej Vol 56, No 1, 1990. p.3-25, 4 refs.

1-178   244
MacGillavry, W.E.: Relational keyword fields: a method for increasing precision in database searches. Orig. nl. Open Vol 21, 1989. p.134-136

1-179   246
Leigh, S.A.: The use of natural language processing in the development of topic specific databases. Orig.en. In: Proc.12th National Online Meeting, New York, May 1991. Medford,NJ: Learned Information 1991. p.209-213
The use of weighting and term frequency in customizing databases is illustrated.

247 Relational Databases
See also I-357

1-180   248-26
Sibley,J.F.: Too broad generic disclosures: a problem for all. Orig.en. J.Chem.Inform.Comput.Sci. Vol 31, No 1, 1991. p.5-9, 3 refs.
Review of generic, or Markush, structures in patents.

1-181   248-26
Simmons, E.S.: The grammar of Markush structure searching: Vocabulary vs syntax. Orig.en. J.Chem.Inform.Comput.Sci. Vol 31, No 1, 1991. p.45-53, 13 refs.

25 Numerical Taxonomy
See also 1-042, 1-080, 1-098, 1-109

1-182   251
Fitzmaurice, G.M.; Krzanowski, W.J., Hand, D.J.: A Monte Carlo study of the 632 Bootstrap Estimator of error rate. Orig.en. J.Classif. Vol 8, No 2, 1991. p.239-250, 8 refs.

1-183   251
Kaufman,L.; Rousseeuw, P.J.: Finding groups in data: an intro-
duction to cluster analysis. Orig.en. Chichester-New York:
Wiley 1990. 352p.
1-184 Blashfield, R.K.: (Book review of 1-183). J.Classif. Vol
8, No 2, 1991. p.277-279

1-185   251
Szczesny, W.: On the performance of a discriminant function.
Orig.en. J.Classif. Vol 8, No 2, 1991. p.201-215, 7 refs.

1-186   252
Celeux, G.; Govaert, G.: Clustering criteria for discrete data
and latent class models. Orig.en. J.Classif. Vol 8, No 2, 1991
p.157-176, 20 refs.

1-187   252
Cheng, Yong-Qing; Zhuang, Yong-Ming; Yang, Ying-Yu: Optimal
Fisher discriminant analysis using the rank decomposition.
Orig.en. Pattern Recognition 25(1992)No 1, p.101-111, 6 refs.

1-188   252
Jambu,M.: Exploration informatique et statistique des données.
(Infomatical and statistical exploration of data) Orig. fr.
Paris: Dunod 1989. XVI,506p.

1-189   252
Saporta, G.: Probabilités, analyse des données et statistique.
(Probabilities, data analysis and statistics) Orig. fr.
Paris: Editions Technip 1990. 493p.
1-190 Roux, M.: (Book reviews of 1-188 and 1-189). Orig.en. J.
Classif. Vol 8, No 2, 1991. p.274-276

1-191   253
Venkateswarlu, N.B.; Raju, P.S.V.S.K.: Three stage ML classi-
fier. Orig.en. Pattern Recognition 24(1991)No 11, p.1113-1116,
12 refs.

1-192   254
Klauer, K.C.; Carroll, J.D.: A comparison of two approaches to
fitting directed graphs to nonsymmetric proximity measures.
Orig.en. J.Classif. Vol 8, No 2, 1991. p.251-268, 22 refs.

1-193   254
Lapointe, F.-J.; Legendre, P.: The generation of random ultra-
metric matrices representing dendrograms. Orig. en.
J.Classif. Vol 8, No 2, 1991. p.177-200, 36 refs.

1-194   254
Luong, X. (Ed.): Analyse arborée des données textuelles.
(Tree analysis of textual data) Orig.fr. Paris: Centre Natio-
nal de la Recherche Scientifique 1989. 178p.
1-195 Rousseau, P.: (Book review of 1-195). Orig.en J.Classif.
Vol 8, No 2, 1991. p.280-281

1-196   254
Vach, W.; Degens, P.O.: A new approach to isotonic agglomera-
tive hierarchical clustering. Orig. en.
J.Classif. Vol 8, No 2, 1991. p.217-237, 31 refs.

1-197   258-49
Digby,P.G.N.; Kempton, R.A.: Multivariate analysis of ecologi-
cal communities. Orig.en. London: Chapman & Hall 1989. 206p.
1-198 Braak, C.J.F.ter: (Book review of 1-197) in J.Classif.
8(1991)No.2, p.271-273

1-199   258-51/4; 864
Shaw, W.M.Jr.: Subject and citation indexing. Pt.1: The clust-
ering structure of composite representations in the cystic fi-
brosis document collection. Pt.2: The optimal cluster-based
retrieval perfornance of composite representations. Orig. en.
J.Amer.Soc.Inform.Sci. 42(1991)No 9, p.669-675; p.676-684

1-200   258-817
Barré,R.: Clustering research fields for macro-strategic anal-
ysis: a comparative specialization approach. Orig.en.
Scientometrics Vol 22, No 1, 1991. p.95-112

26 Notation, Codes

1-201   262
Sigles, acronymes, abréviations. Orig. en, fr, de.
Terminol.& Traduct., No 2, 1990
The issue contains 19 articles covering this topic in the
broadest sense with summaries in French, if a contribution is
not in either English, French or German.

1-202   265
Howard, L.: Call numbers and collating sequences. Orig. en.
LASIE Vol 20, No 2, 1990. pl.84-98

1-203   268-26
Briggs,J.A.; Ferns,E.A., Shenton,K.E.: Improvements in Derwent
Plasdoc System. Orig.en. J.Chem.Inform.Comput.Sci. Vol 31,
1991. p.454-458

27 Revision, Updating, & Maintenance

1-204   277
Fischer, D.H.: Consistency rules and triggers for thesauri.
Orig.en. Int.Classif. Vol 18, No 4, 1991. p.212-225, 11 refs.
From the point of view of an object-oriented knowledge repre-
sentation language, desirable control functions for thesauri
are discussed in relation to a recently published catalogue.

1-205   277
Steidle, V.: Thesaurusarbeit dynamisch. (Dynamic thesaurus
work) Orig.de. Nachr.Dok. Vol 43, No 1, 1992. p.42-43
This is a letter to the editor or comment to the article by
H.Nohr on "Thesaurus work with LIDOS" in Nachr.Dok.91-3.

3 CLASSING AND INDEXING

31 Theory of Classing and Indexing

1-206   316
Valas, G.: Indexed eponymical citedness. Orig.hu.
Tudoman.Tajekoz.Müszaki Vol 38, No 11, 1991. p.461-9, 7 refs.

1-207   318
Breton, E.J.: Indexing for invention. Orig.en.
J.Amer.Soc.Inform.Sci. Vol 42, No 3, 1991. p.173-177, 13 refs.

1-208   318
Knorz,G.: Book review of Krause, J. (Ed.): Inhaltserschließung
von Massendaten. (Indexing of large document files.) Hildes-
heim, etc.: Olms 1987. 248p. Orig.en. Computers and the Hum-
anities Vol 25, No 2-3, 1991. p.175-178

1-209   318-92
Weiss, H.: Dynamic indexing for the analysis of literary text.
Orig.en. Int.Classif. Vol 18, No 4, 1991. p.200-204, 1 ref.
A dynamic indexing procedure is demonstrated for the analysis
of a classic literary text (here the works of Sh.Y.Agnon).

32 Subject Analysis

1-210   324
Drudze, T.M.: Information-goal content analysis of texts.
Ortg.ru. In: Metody sbora inform.v sots.issled.,Kn.2. Moskva,
SU 1990. p.85-102

1-211   327
Maslova, O.M.; Pugacheva, M.G.: Kinds of documentary sources
and their analysis. Orig.ru. In: Metody sbora inform.v.sots.
issled.,Kn.2. Moskva, SU 1990. p.39-47

33 Classing and Indexing Techniques
See also 1-515 - 1-521

1-212   331; 751
Variations in indexing practices among OPACs. Orig.en.
Inform.Technol.Libr. Vol 10, No 1, 1991. p.67-73
Survey which attempts to address how the data are indexed for
subsequent retrieval. (Project of a committee on Technical
Standards for Library Automation - TESLA to study the question
of standardization of indexing practices).

1-213   331
Benediktsson,D.: Problems of subject access to Icelandic col-
lections through OPACs. Orig.en.
Scand.Public Libr.Q. Vol 23, No 4, 1990. p.24-7

1-214   331
Aschero,B.: Teoria e tecnica della indicizzazione per soggetto.
(Theory and techniques of subject indexing) Orig.it. Milano:
Editrice Bibliografia 1988. 151p., Bibliografia e Bibliotecono-
mia No.30, ISBN 88-7075-173-2
Introduction into the conceptual analysis of documents, its
translation into the indexing language, the use of subject
heading lists and thesauri, the utilization of proper names,
and the method of indexing. Many examples.

1-215   331
Farrow, J.F.: A cognitive process model of document indexing.
Orig.en. J.Doc. Vol 47, No 2, 1991. p.149-166, 51 refs.
A model of text comprehension by indexers (including classifi-
ers and abstractors) is presented, based on task descriptions
which indicate that the comprehension of text for indexing
differs from normal fluent reading in respect of operational
time constraints, which lead to text being scanned rapidly for
perceptual cues to aid gist comprehension. The evidence for
the interplay of perceptual and conceptual processing of text
under conditions of rapid scanning is reviewed. The alloca-
tion of mental ressources to text processing is discussed, and
a cognitive process model of abstracting, indexing and classi-
fication is described.   (Author)

1-216   331
Van Orden, R.: Content-enriched access to electronic informa-
tion: summaries of selected research. Orig.en.
Libr.Hi Tech Vol 8, No 3, 1990. p.27-32, 14 refs.

1-217   333
Kanakchary,M.: Abstracting and indexing techniques: A critical
view. Orig.en. Indian J.of Inform.,Libr.& Society Vol 4, No 2,
1991. p.122-130, 15 refs.

1-218   333
Nolrjean, R.: Bar Code indexing - clearing the inputting
bottleneck for improved document management. Orig. en.
Int.J.Microgr.& Opt.Technol. Vol 7, No 3, 1989. p.103-105
Discusses advantages of using bar codes for indexing in docu-
ment management systems. Describes also future applications of
bar codes in information systems.

1-219   335; 934
Oberhauser, O.; Rauchbauer, P.: Sacherschließung mit RSWK im
BIBOS-Bibliothekenverbund. (Subject indexing with RSWK (German
Rules for Subject Cataloguing) in the library network BIBOS)
Orig.de. Biblos Vol 39, No 4, 1990. p.259-273, 26 refs.

34 Automatic Classing and Indexing
See also 1-041b, 1-316

1-220   342
Bonzi, S.: Representation of concepts in text: a comparison of
within-document frequency, anaphora, and synonymy. Orig.en.
Canadian J.Inform.Sci. Vol 16, No 3, 1991. p.21-31, 10 refs.

1-221   3432
Craven, T.C.: Algorithms for graphic display of sentence de-
pendency structures. Orig.en. Inform.Process.& Management Vol
27, No 6, 1991. p.603-613, 16 refs.
Five automatic graph-drawing algorithms were evaluated using
a sample of texts for which sentence dependency structures
have been coded. Evaluation criteria included speed and the
number of crossing arcs, compactness, and suitability for ap-
plication of selective scaling of the resulting display. The
algorithms have all been implemented as options in the TEXNET
text structure management system.   (Author)

1-222   343
Kotteman,J.E.; Gordon.M.D., Stott, J.W.: A storage and access
manager for ill-structured data. Orig.en. Communicat.ACM Vol
34, No 8, 1991. p.94-103, 22 refs.

1-223   343
Witten,I.H.; Bell,T.C., Nevill, C.G.: Indexing and compressing
full-text databases for CD-ROM. Orig.en. J.Inform.Sci. Vol 17,
1991. p.265-271, 8 refs.
The paper describes a suitable indexing mechanism and its com-
pression potential which enables to double the amount of text
to be stored on a CD-ROM disk and include a full concordance
and indexes as well. A single disk can accomodate around 180
million words of text - equivalent to a library of 1000-1500
books and provide rapid response to a variety of queries in-
volving multiple search terms and word fragments.

1-224   3433
Dzhubanov, A.Kh.: Computer identification of keywords. Orig.ru
In: Aktual.probl.kompyuter.lingv.: Tez.dokl.Vses.Konf.,Tartu,
29-31 Maya 1990. Tartu, SU 1990. 49p.

1-225   345; 715
Driscoll, J.R.; Rajala, D.A., Shaffer, W.H., Thomas, D.W.: The
operation and performance of an artificially intelligent key-
wording system. Orig.en. Inform.Process.& Management Vol 27,
No 1, 1991. p.43-54, 32 refs.

35 Manual and Automatic Ordering

356   Hypertext. Hypermedia
      See also 1-041a, 1-360

1-226   356
Rada, Roy: Small, medium, and large hypertext. Inform.Process.
& Management Vol 27, No 6, 1991. p.659-677, 48 refs.
The three different aspects of hypertext have in common an ab-
straction of text as a graph rather than a line and an ulti-
mate goal of facilitating communication among people.

1-227   356
Rada, Roy: Hypertext. From text to Expertext. London, etc.:
McGraw-Hill Book Co. 1991. 237p. ISBN 0-07-707401-7
The chapters 1-4 introduce into the principles, systems, and
different kinds of hypertext (see 1-226) and give exercises.
Chapter 5 treats 'intelligent hypertext', and Chapter 6 con-
cludes the textbook by leading "from text to expertext" and by
providing directions and exercises as well. Chapter 7 contains
the answers to the selected exercises and the conclusion.

1-228   356; 753
Marchionini,G. et al.: Effects of search and subject expertise
on information seeking in a hypertext environment. Orig. en.
In: ASIS'90. Medford, NJ: Learned Information 1990. p.129-142

1-229   356; 752
Sinno-Rony, S.: Les hypercatalogues. Nouvelles perspectives
pour les OPAC. (The hypercatalogues. New perspectives for the
OPACs) Orig.fr. Bull.Bibl.France Vol 36, No 4, 1991. p.303-306
308-311, 17 refs.

36 Coding

1-230   363
Bengtsson, A.: Data marking: prototype system for classifica-
tion. Orig.sv. Linköping, Sweden: Foersvarets Forskningsanstalt
1990. 37p., NTIS: PB91-192765/HCW
Description of a prototype system for the classification of
information inside a document. The model that is used for secu-
rity classification and for clearance level of the users is
influenced by the US model MLS - Multi Level Security. The
system has the following parts: The hypertext system Guide for
the selection and presentation of text; and UNIX utilities for
the protection of data. The system indicates one way to build
a classification system out of components available today.
                                                   (NTIS)

1-231   368-26
Meyer, Ernst: Computer representation and handling of struc-
tures: Retrospect and prospects. J.Chem.Inform.Comput.Sci. Vol
31, No 1, 1991. p.68-75, 23 refs., Herman Skolnik Award Paper
This is the 1990 Herman Skolnik Award Paper. A survey of three
decades of methodological development for topological encoding
of chemical structures is given and some newer trends are in-
dicated.

38 Index Generation and Programs

1-232   382
Nadeski, K.: Cumulative indexes. Orig. en.
Ser.Rev. Vol 16, No 4, 1990. p.47-50
Reviews of indexes to 13 periodicals.

1-233   383; 388-564
Beall, J.: The compilation of the index to the University of
North Carolina Student Government Code. Orig.en. Chapel Hill,
NC: University of North Carolina. Thesis (MSLS) 1990. 127p.

387   Computer Programs for Other Purposes than Indexes
      See also 1-008, 1-171, 1-399

1-234   387
Strzolka,R.: Anwendersoftware für Bibliothekare und Dokumenta-
re. 2000 Programme für PC, Micro-, Mini- und Mainframecomputer.
(User software for librarians and documentalists. 2000 pro-
grams) Orig.de. München: K.G.Saur Verlag 1991. IV,313p.
ISBN 3-598-11052-9

1-235   388-19
KWIC Index of International Standards, 5th ed. Orig. en, fr.
Genf, CH: ISO Central Secretariat 1991. 710p.

1-236   388-519
Raper, R.: Indexes really are necessary. Orig.en.
School Librarian Vol 38, 1990. p.100
Indexing an information book for children.

1-237   388-724
Chapman, K.: A comparison of accounting indexes. Orig. en.
Ser.Rev. Vol 16, No 4, 1990. p.25-30
Accountants' index, Accounting articles, Business periodicals
index and ABI/INFORM on disk.

39 Evaluation of Classing and Indexing

1-238   392
Burgin, R.: The effect of indexing exhaustivity on retrieval
performance. Inform.Process.& Management 27(1991)no.6, p.623-
628, 20 refs.
The findings of this investigation, coupled with those of Shaw
for a retrieval system based on single-link clustering, sug-
gest that the vector space model is more robust against vari-
ations in indexing exhaustivity than is the single-link clus-
tering model.

1-239   392
Reich,Ph.; Biever,E.J.: Indexing consistency: the input/output
function of thesauri. College & Research Libraries Vol 52, No
4, 1991. p.336-342, 7 refs.
The study derives consistency figures of 24% and 45% for 2
samples. Factors of failure are stated and the consequences
for retrieval are drawn.

1-240   392
Tonta, Y.: A study of indexer consistency between Library of
Congress and British Library cataloguers. Libr.Resources &
Techn.Services Vol 35, No 2, 1991. p.177-185, 30 refs.

1-241   394
Lancaster,F.W.: Identifying barriers to effective subject ac-
cess in library catalogs. Libr.Resources & Techn.Services Vol
35, No.4, p.377-391, 34 refs.
51 subject searches were performed in an online catalog con-
taining about 4.5 million records. Their success was judged in
terms of lists of items known to be relevant to the various
topics, compiled by subject specialists. Many of the items
known to be relevant were not retrieved, even in very broad
searches that sometimes retrieved several hundred records,
and very little could be done to make them retrievable within
the constraints of present cataloging practice. Librarians
should recognize that library catalogs, as now implemented,
offer only the most primitive of subject access and should
seek to develop different types of subject access tools.
                                                      (Authors)

1-242   395
Ongering, M.A.H.; Riesthuis, G.J.A.: The indexing in the ADION
system: precision and recall. Orig. nl.
Open Vol 21, 1989. p.261-264

1-243   398-51/4
Gretz, M.: Indexierungen in biomedizinischen Literaturdatenban-
ken. Eine vergleichende Analyse. (Teil 2). (Indexing in biome-
dical literature databases. A comparative analysis, Pt.2)
Orig.de. Nachr.Dok. Vol 42, No 6, 1991. p.405-411, 14 refs.
Analysis of indexations in the databases MEDLINE, EMBASE, BIO-
SIS PREVIEWS, and SCISEARCH. Evaluation of results.

4 ON UNIVERSAL SYSTEMS

41 On Universal CS & T in General

1-244   414; 931
Müller-Dreier, A.: Das Projekt "Einheitsklassifikation". Ein
gescheiterter Versuch zur Durchsetzung einer einheitlichen
Sacherschließung für die Bibliotheken der Bundesrepublik
Deutschland (1969-1977). (The Project "Unified Classification",
A failure to carry through a unified subject analysis in the
libraries of the Federal Republic of Germany (1969-1977))
Orig.de. Köln: Fachhochschule für Bibliotheks- und Dokumenta-
tionswesen 1991. 163p., 197 refs.

42 On the Universal Decimal Classification

1-245   42.06
Book review of: The UDC: Essays for a New Decade. Ed.by Alan
Gilchrist and David Strachan. London: Aslib 1990. 97p. Orig.en.
ECSSID Bull. Vol 13, No 1(44) 1991. p.53-54

1-246   42.179; 42.27
Strachan, D.: The UDC - its control and development. Orig. en.
Synopsis Vol 22, No 3, 1991. p.158-160
Statements on the present situation of the UDC.

43 On the Dewey Decimal Classification (DDC)
   See also 1-385

1-247   43.27
Chan, L.M.: Decimal Classification Editorial Policy Committee:
Annual report July 1, 1989-June 30, 1990. Orig. en.
ALCTS Newsletter Vol 1, No 7, 1990. p.68

1-248   43.4.07
Friis-Hansen, J.: Book review of Comaromi,J.P., Satija, M.P.:
Exercises in the 20th edition of the Dewey Decimal Classifica-
tion. New Delhi: Sterling Publ.1990. 127p. Orig. en.
Int.Classif. Vol 18, No 4, 1991. p.238

1-249   43.4-09
Sifton,P.; Dragani,N.: Workbook for DDC20. Dewey Decimal Clas-
sification. Orig.en. Ottawa: Canadian Library Assoc. 1989.48p.

488 On the Library of Congress Subject Headings
     See also 1-364

1-250   448
Behr, M.D.: Book review of Studwell, W.E.: Library of Congress
Subject Headings: Philosophy, Practice and Prospects. New
York: Haworth 1990. 120p. Orig.en.
J.Acad.Librarianship Vol 17, No 4, 1991. p.238

1-251   448.295
Studwell, W.E.: Structurally redundant ALC subject headings
versus really redundant LC Subject Headings after UUMM (Univ-
ersal Unlimited Machine Manipulation). Orig.en.
Technicalities Vol 10, (August) 1990. p.8-9

1-252   448.321
Studwell, W.E.: Better seen than sorry: five basic principles
for documentation/presentation of data in the LC Subject Head-
ing system. Orig.en. Technicalities Vol 10, (May) 1990. p.7-9

1-253   448.88
Studwell, W.E.: Application astray keeps retrieval away: five
basic principles for application of LC Subject Headings.
Orig.en. Technicalities Vol 10, (June) 1990. p.8-9

1-254   448.27
Studwell, W.E.: Least effort: one more reason to change the
overall policies/practices relating to LC Subject Headings.
Orig.en. Technicalities Vol 10, (Oct.) 1990. p.4-5

1-255   448.27
Studwell, W.E.: Bilevel headings: a proposal to modify the ar-
chitecture of LC Subject Headings. Orig.en.
Technicalities Vol 10, (Nov.) 1990. p.7-8

1-256   448.27
Studwell, W.E.: Helping to clean up LC's act: more about pro-
posed new style punctuation for LC Subject Headings. Orig.en.
Technicalities Vol 11, No (Jan.) 1991. p.10-11

1-257   448.222
Studwell, W.E.: Adjectives in LC Subject Headings: help or
hindrance? Orig.en. Technicalities Vol 11 (Febr.) 1991. p.9-10

1-258   448.224
Studwell, W.E.: Gathering levels in LC Subject Headings: revi-
siting an excellent aid to subject retrieval. Orig.en.
Technicalities Vol 11, (May) 1991. p.8-9

1-259   448.27
Studwell, W.E.: The irregulars in LC Subject Headings: some-
thing to fight against (examples of inconsistencies in struc-
ture, specificity, etc.). Orig.en. Technicalities Vol 11,
(April) 1991. p.11-12

1-260   448.222
Studwell, W.E.: More about adjectives in LC Subject Headings:
some possibilities for the future. Orig.en.
Technicalities Vol 11, (March) 1991. p.7-8

1-261   448.27
Studwell, W.E.: The rocky road to a subject code.
Orig.en. Western Assoc.of Map Libr.Inform.Bull. Vol 22, No 2,
1991. p.110-114
Claims that the LC Subject Headings must be modified and their
application documented in a subject code in order to satisfy
the more sophisticated but less patient OPAC users of today.

47 On the Library Bibliographical Classif.
                                              (LBC/BBK)
1-262   47.172
Rubleva, V.: The prize was handed over - but the problem re-
mained. Orig.ru. Sov.Bibliogr., No 3, 1990. p.24-25

48 On Other Universal Systems
   See also 1-048

1-263   485
Soper, M.E.; Osborne, L.N., Zweizig, D.L.: The Librarian's The-
saurus: A concise guide to library and information terms.
Chicago,IL: Amer.Libr.Assoc. 1990. 164p., ISBN 0-8389-0530-7
1-264 Chenman, P.M.: (Book review of 1-263). J.Acad.Librarian-
ship Vol 17, No 3, 1991. p.237

1-265   4856.62
Arbeitsgemeinschaft der Parlaments- und Behördenbibliotheken
(APBB): Probleme der Katalogisierung in Parlaments- und Behör-
denbibliotheken. (Cataloguing problems in parliamentary and
official libraries) Orig.de. Bonn, DE: APBB 1990. 107p.

1-266   486
Scibor,E.; Jabrzemska, E.: Thesaurus of common topics. (Polish
interdisciplinary thesaurus). Orig.en. In: Encyclopedia of Li-
brary and Information Science. Vol 44, Supplement 9, 1989.
p.388-395

1-267   487; 752
Mattes, J.: Struktur von Online-Patentdatenbanken. (Structure
of online-patent databases) Orig.de. Informationstechnik Vol
33, No 5, 1991. p.269-275

1-268   489
Schmitt, Rita: Systematiken. (Classification Systems) Orig.de.
Berlin: Deutsches Bibliotheksinstitut 1990. 26p., Materialien
zur Schulbibliothek, 23
Introduces into the problem of classification systems for
school libraries, considers significance and purpose of a
subject index, abbreviating and enlarging of such classifica-
tion systems and the classing of school-specific materials.

6 ON SPECIAL SUBJECTS CS & T

61 On CS & T in the Form and Structure Area 1

1-269   6198
Rudolph, S.: Entwurf für die Organisation, Erschließung und EDV-gestützte Verwaltung von Information für industrielle Sicherheitstechnik. (Designing a system for organization, content analysis, and computer-aided management of information on industrial safety technology) Orig.de. Hannover, DE: Fachhochschule BID, Diplomarbeit 1990. 156p., 11 refs.
Design and elaboration of a thesaurus for industrial security especially for protection from fire and explosions are the emphasis of this thesis.

62 On CS & T in the Energy and Matter Area 2
See also 1-011

63 On CS & T in the Cosmos and Earth Area 3
See also 1-012, 1-172

1-270   .   6392
Inouye, R.: Towards a "polar thesaurus" or, "Cliches to index by". Orig.en. Sourdough Vol 27, (Summer) 1990. p.15-16
Discussion at the 1990 Polar Libraries Colloquy.

64 On CS & T in the Bio Area 4

1-271   646; 88-46
Bonnichon, M.; Lebowitz, A.I.: Multilingual indexing and retrieval in bibliographic systems. Orig.ru. In: Mezhdunar.simp. po perspektivam razvitiya inform.obsluzh.v nauch.-tekhn.i prom.obl., Leningrad, 28-31 maya 1990: Razvernut.annot.dokl. /Int.Atom.Energy Agency et al. p.60-61
Description of AGRIS with AGROVOC, the multilingual indexing and retrieval thesaurus which uses the ASTUTE software.

1-272   6461
Raupp, J.: OLGA: PC-gestützte Literatursammlung zum ökologischen Landbau. (OLGA: a PC-based collection of literature in the field of ecological agriculture) Orig. de.
Nachr.Dok. Vol 42, No 4, 1991. p.289-294, 2 refs.
The indexing is accomplished with a specially elaborated thesaurus which supplies not only subject descriptors but lists also the conditions for investigations, methodology and analytics and the names of different agricultural systems.

1-273   648; 78-4
Tsugita, A.; Okibayashi, F., Kunisawa,T., Satake,K.: Trends of biological databases in CODATA and Protein Information Database in Japan. Orig.en. CODATA Bull. 23(1991)No 3, p.6-13
The paper summarizes the recent activities of CODATA in the field of biology including the Task Groups on Hybridoma Databanks, Microbial Strain Networks, Biological Macromolecules, Systematik Nomenclature for Food in Numerical Databases, and the Commission on the Terminology and Nomenclature of Biology. In addition, the recent development of the Protein Information Database in Japan is introduced.   (Author)

1-274   649
Banchian,A.L. et al.: Environmental protection and bibliography. Orig.ru. Sov.Bibliogr., No 4, 1989. p.32-4
Guide to indexing and abstracting services, bibliographical essay.

1-275   649.234; 657.234
Kushakova,Zh.S.; Koz'movskaya,T.I., Sergeeva, O.V.: Linguistic enriching of an STI system in work protection and environmental protection areas. Orig.ru. Nauchno-tekhn.Inform.,Ser.2, No 4, 1989. p.16-17

65 On CS & T in the Human Area 5
See also 1-013, 1-016, 1-018, 1-019, 1-170, 1-175

66 On CS & T in the Socio Area 6
See also 1-014, 1-015, 1-020, 1-021, 1-022, 1-048, 1-265

1-276   661
Devisch, M.: Social sciences: a trouble-spot in creating a standardized subject access; the case of demography. Orig.en. In: Bibliographic access in Europe. Aldershot, Hampsh.: Gower 1990. p.77-88
Treats thesaurus development in the social sciences.

1-277   664
Sohn, W.: Thesauruskonstruktion, -pflege und -anwendung in der Kriminologie. (Thesaurus construction, maintenance and application in criminology) Orig.de. Recht, Bibl., Dok. Vol 21, No 2, 1991. p.84-97, 18 refs.

1-278   6676
Roux, P.J.A.; Rykheer, J.H.: Developing a South African master thesaurus for community information. Orig.en. South African J. Libr.Inform.Sci. Vol 58, (June) 1990. p.174-179

1-279   6682
Gefahrstoffe und Katalogisierung. Versorgungsartikel mit kritischen chemischen Inhaltsstoffen. (Dangerous materials and their cataloguing) Orig.de. Inform.Mat.Amt Bundeswehr, No 24, 1991. p.3-6
Lists 16 properties of dangerous materials to be symbolized in pictures and advices in matters of their cataloguing.

67 On CS & T in the Econ. & Production Area 7
See also 1-023

1-280   672:69
Arrigoni, M.: Towards the construction of a thesaurus on the Italian business history: an announcement. Orig. en.
Int.Classif. Vol 18, No 4, 1991. p.225

1-281   6743
Strekalova, R.V.; Velishko, I.V.: The classification used in the drilling data bank. Orig.ru. Nauchno-tekhn.Inform., Ser.2, No 5, 1989. p.20-22

68 On CS & T in the Science & Inform. Area 8
See also 1-024, 1-171

1-282   6817
Negrini, G.: The "Research Project" and its classification. Orig.it. Indicizzazione Vol 5, No 1, 1990. p.17-27

1-283   682
Farnesi, T.: Tools for the creation of a thesaurus. Orig. it. Indicizzazione Vol 5, No 1, 1990. p.28-37
A statistical frequency survey about the vocabulary and classification codes for the field of information science was carried out in order to establish a thesaurus in this field.

1-284   6823
Fichtl, L.: Typen von Datenbanken. Überlegungen zur Terminologie und Klassifikation. (Types of databases. Considering their terminology and classification) Orig. de.
Nachr.Dok. Vol 42, No 5, 1991. p.362-364, 11 refs.
The author distinguishes essentially only two types of databases for reference and for information retrieval.

69 On CS & T in the Humanities Area 9
See also 1-025, 1-026

1-285   69
Rajagopal, B.; Kanakchary, M.: Subject headings in the humanities: Some problems and solutions. Orig.en. Indian J.Inform., Libr.& Society Vol 4, No 2, 1991. p.139-148, 9 refs.

1-286   6918.22
Brunner,T.F.: The Thesaurus Linguae Graecae: classics and the computer. Orig.en. Libr.Hi Tech Vol 9, No 1, 1991. p.61-67
The evolution, structure, and implications of the TLG (Thes. Linguae Graecae), the database developed at the University of California providing online, fully searchable access to the entire corpus of classical Green literature are covered.

1-287   692
Beck, H.: Zur Klassifikation der Belletristik. (On the classification of fiction literature) Orig.de.
Int.Classif. Vol 18, No 4, 1991. p.205-211, 11 refs.
Presentation on shelves and depth analysis in card files should complement each other. Some less known traditions of thematical classification schemes in Germany of the twenties and since World War II are investigated. Principles derived are stated.

1-288   692; 758-92
Beghtol, C.: (Book review of three volumes of The Book House System, Denmark). Int.Classif. 18(1991)No 4, p.233-5, 6 refs.
The three volumes have all been published by Risoe National Laboratory, Roskilde, DK. They are: 1-288a Agger, St., Jenson, H.: The Book House: Visual Design. - 1-288b Goodstein, L.P., Pejtersen, A.M.: The Book House: System functionality and evaluation. - 1-288c Pejtersen, A.M.: The Book House: Modelling user's needs and search strategies as a basis for systems design.

1-289   692
Woodis, A.: Categorizing book stock. Orig.en.
Unabashed Librarian, No 76, 1990. p.5
Categorization according to adult fiction categories.

7 CLASSIFICAT. AND LANGUAGE

71 General Problems of Natural Language

1-290   711
Sager, Svend F.: Book review of Müller,H.M.: Evolution, Kognition und Sprache. (Berlin/Hamburg 1987. Orig.de.
Fachsprache Vol 13, No 1-2, 1991. p.72-74

1-291   711; 734
Handke, J.: Natürliche Sprache: Theorie und Implementierung in
LISP. (Natural language: Theory and implementation in LISP)
Orig.de. Hamburg, etc.: McGraw-Hill 1989. 456p.
1-292 Rolshoven, J.: (Book review of 1-291). Nachr.Dok. Vol 42
No 6, 1991. p.428-429

1-293   711
Warner, A.J.: Quantitative and qualitative assessments of the
impact of linguistic theory on information science. Orig.en.
J.Amer.Soc.Inform.Sci. Vol 42, No 1, 1991. p.64-71, 38 refs.

1-294   711
Zimmermann, H.H.: Computer und Sprache im Zeitalter der Fach-
information. (Computer and language in the age of specialized
information) Orig.de. Lebende Sprachen 35(1990)No 1, p.1-5

715 Artificial Intelligence

1-296   715
Sparck Jones, K.: The role of artificial intelligence in in-
formation retrieval. Orig.en. J.Amer.Soc.Inform.Sci. Vol 42,
No 8, 1991. p.558-565, 7 refs.
Four potential roles for AI in IR are considered, evaluating
AI from a realistic point of view and within a wide informa-
tion management context. The conclusion is that AI has limited
potential, not just because AI is itself insufficiently dev-
eloped but because many information management tasks are pro-
perly shallow information processing ones. There is neverthe-
less an important place for specific applications of AI or
AI-derived technology when particular constraints can be
placed on the information management tasks involved. (Author)

72 Semantics

1-297   721
Sharov,A.A.: Biosemiotics: a functional and evolutionary anal-
ysis of the meaning of information. Orig.ru. transl.into en.
Automatic Doc.& Math.Linguistics 24(1990)No 6, p.47-61, 39refs.

1-298   721
Solov'eva,E.A.; Matorin, S.1.: Simulation of conceptual knowl-
edges: approach by a bionics system. Orig.ru. Nauchno-tekhn.
inform.,Ser.2, No 3, 1989. p.2-8

1-299   722
Dietze, J.: (Book review of) Barth, E.M., Wiche, R.T.P.: Prob-
lems, functions, and semantic roles. A pragmatists' analysis
of Montague's Theory of Sentence Meaning. Berlin-New York: de
Gruyter 1986. XVIII,198p.. Orig. en.
Int.Classif. Vol 18, No 4, 1991. p.244-245

1-300   723
Ageev,B.A.; Chernonog,S.B., Rozumenko, S.B.: Applying the "se-
mantic spectrum" technique to the analysis of research t ends.
Orig.ru. Nauchno-tekhn.inform.,Ser.1, No 5, 1990. p.16-18
Proposal for analyzing advances in research trends. Tables of
collocations are used to build the socalled "semantic spectra"
of research trends which help study their over-time changes
in graphical form and explore various aspects of structure
changes in subject areas.

1-301   723
Podpol'nyi,D.F.: Analysis of words and vocabulary using a per-
sonal computer. Orig.ru. transl.into en. Automatic Doc.& Math.
Linguistics Vol 24, No 5, 1990. p.33-36, 6 refs.

1-302   724
Cadiot,P.; Zribi-Hertz,A., Kleiber,G., Ruwet,N., Tasmowski-de
Ryck, L.: Aux confins de la grammaire: l'anaphore. (Within the
limits of grammar: the anaphor) Orig. fr. Langages Vol 25, No
97, 1990. 127p.

1-303   724
(On polysemy). Orig. fr. TA Inform. Vol 29, No 1-2, 1988
The issue of contains the following articles on polysemy:
1-304 Fuchs, G.: Représentation linguistique de la polysémie
grammaticale. - 1-305 Victorri, B.: Modéliser la polysémie.
(Developing a model of the polysemy process). - 1-306 Joulin,
J.; Konfe,A., Raysz,J.-P.: Traitement de la polysémie de En-
core. (Treating the polysemy of the word 'encore' ('still'))
1-307 Gosselin, L.; Victorri, B.: Traitement de la polysémie
des relatives. (Treating the polysemy of relatives)

1-308   725
Nienhuys-Cheng,S.-H.: Classification and syntax of constraints
in binary semantical networks. Orig.en. Inform.Syst. Vol 15,
No 5, 1990. p.497-514, 7 refs.
Classification of the constraints necessary on binary semanti-
cal networks used to design or build information systems. The
syntax of the systems is defined in order to provice a clear
way to express the constraints. Gives a short introduction to
the different modules of the Nijssen Information Analysis Me-
thod and its implementation.

1-309   725
Rossi,G.P.: Architectural and design issues for naming commun-
icating entities in distributed systems. Orig.en. Rivista di
Informatica Vol 20, No 3, 1990. p.205-220, 30 refs.

1-310   726; 833
Craven, T.C.: Condensed representation of sentences in graphic
displays of text structures. J.Doc. Vol 46, No 4, 1990. p.339-
362, 24 refs.
The article is concerned with how sentences may be represent-
ed briefly but informatively in graphic displays of a sentence
dependency structure. For this, different automatic abbrevia-
tion schemes were assessed on a sample data set for compres-
sion and ambiguity.   (Author, abbr.)

1-311   726
Morris, J.; Hirst, G.: Lexical cohesion computed by thesaural
relations as an indicator of the structure of text. Orig. en.
Computational Linguistics 17(1991)No 1, p.21-48, 17 refs.

1-312   728-51/4
Dujols,P.; Aubas,P., Baylon,C., Grémy,F.: Morphosemantic anal-
ysis and translation of medical compound terms. Orig. en.
Meth.Inform.Med. Vol 30, No 1, 1991. p.30-35, 17 refs.

73 Automatic Language Processing

1-313   731
Heyer,G.: Probleme und Aufgaben einer angewandten Computerlin-
guistik. (Problems and tasks of an applied computer linguis-
tics) Orig.de. Künstliche Intelligenz, No 1, 1990. p.38-42,
21 refs.

1-314   731
Schneider, Ch.: Book review of Schwarz,Ch., Thurmair,G.(Eds.):
Informationslinguistische Texterschließung. Hildesheim, etc.:
Olms 1986. 281p. Orig.en. Computers and the Humanities Vol 25,
No 2-3, 1991. p.178-180

1-315   731
Zimmermann, H.H.: Language and language technology. To Alfred
Hoppe on his 80th birthday. Orig.en. Int.Classif. Vol 18, No 4,
1991. p.196-199, 6 refs.

1-316   733; 343
Palmer, P., Chiaramella, Y.: Etude d'un analyseur de surface
de la langue naturelle. Application à l'indexation automatique
de textes. (Study of a surface parser for natural language.
Application to automatic indexing of text) Orig.fr. Grenoble,
FR: Thesis Doct.Inform. 1990. 308p.

1-317   733; 753
Peat,H.J.; Willett,P.: The limitations of term co-occurrence
data for query expansion in document retrieval systems. Orig.
en. J.Amer.Soc.Inform.Sci. 42(1991)No 5, p.378-383, 24 refs.

1-318   737
Schwarz, Ch.: Automatic syntactic analysis of free text. Orig.
en. J.Amer.Soc.Inform.Sci. 41(1990)No 6, p.408-417, 60 refs.

74 Grammar Problems

1-319   743
Bennett,W.S.; Herlick, T., Hoyt, K., Liro, J., Santisteban, A.:
Toward a computational model of aspect and verb semantics.
Orig.en. Mach.transl. Vol 4, No 4, 1989. p.247-280

1-320   744
Endzhej-Borychka, U.: Automated distinction of grammatical ca-
tegories of words by their endings. O ig.ru.
Nauchno-tekhn.inf., Ser.2, No 6, 1989. p.24-27

1-321   744
Rapoport,T.R.: Secondary predication and the lexical represen-
tation of verbs. Comput.transl. Vol 5, No 1, 1990. p.31-55

1-322   748-262; 758-262
Simmons, E.S.: The grammar of Markush structure searching: vo-
cabulary and syntax. J.Chem.Inform.Comput.Sci. Vol 31, No 1,
1991. p.45-53, 13 refs.
Discusses the grammar of Markush structures and compares the
vocabulary approach of fragmentation codes with the syntax-
based approach of topological indexing systems.

75 Question-Answering Systems, Online Techn.

1-323   751
Aluri,R.; Kemp,D.A., Boll,J.J.: Subject analysis in online ca-
talogs. Englewood, CO: Libraries Unlimited 1991. 303p.
1-323a Drabenstott, K.M.: (Book review of 1-323) in J.Acad.Li-
brarianship 17(1991)No.5 (ISBN 0-87287-670-5)

1-324 751
Case, D.O.: Conceptual organization and retrieval of text by historians: The role of memory and metaphor. Orig. en. J.Amer.Soc.Inform.Sci. Vol 42, No 9, 1991. p.657-668, 60 refs. Future designs of IR systems may draw upon cognitive theories of categorization and metaphor to understand how users interact with text - both paper and electronic. Developers of information systems should consider qualitative aspects of cognition in their designs. System developers might also consider segmenting the audience for computer interfaces, as well as designing generic tools that apply to all users.(Author,abbr.)

1-325 751
Chen,H.; Dhar,V.: Cognitive process as a basis for intelligent retrieval systems design. Orig. en. Inform.Process.& Management 27(1991)No.5, p.405-432, 52 refs. Two studies led to the development of fice computational models of online document retrieval. These were incorporated into the design of an "intelligent" document-based IR system. The broader implications for the design of IR systems are discussed.

1-326 751
Dalrymple, P.W.; Younger, J.A.: From authority control to information retrieval: framing the expanded domain of subject access. College & Research Libr. 52(1991)No 2, p.139-49, 24 refs.

1-327 751
Ford, N.: Knowledge-based Information retrieval. Orig. en. J.Amer.Soc.Inform.Sci. Vol 42, o 1, 1991. p.72-74, 14 refs.

1-328 751
Hunter,L.: Fact - information - data - knowledge: Databases as a way of organizing knowledge. Orig. en. Libr.& Linguistic Computing 5(1990)No 1, p.49-57, 31 refs.

1-329 751
Lelu, A.: From data analysis to neural networks: new prospects for efficient browsing through databases. Orig. en. J.Inform.Sci. Vol 17, No 1, 1991. p.1-12, 25 refs. The search for a somewhat anthropomorphic dialogue with the computer is premature as long as a certain number of representational problems are not resolved: how to supply the human interlocutor with an overall view of the editorial position(s) adopted by the administrators and indexers of the documentary database, whether implicitly or not. This human interlocutor must have a sure idea of what he might find, of what he will not find. In short he must know with whom and with what he is dealing! What toools should he be given to find his way all through his search and make is progress at all times in the directions that are most relevant from his point of view?
(Author, abbr.)

1-330 751
Oberhauser, O.: Book review of Smith, Linda C.(Ed.): Questions and answers: strategies for using the electronic reference collection. Urbana-Champaign, IL: University of Illinois 1989. 208p. Orig.en. Int.Classif. Vol 18, No 4, 1991. p.240-241

1-331 751
Vickery,B.; Vickery, A.: Intelligence and information systems. Orig.en. J.Inform.Sci. Vol 16, No 1, 1990. p.65-70 The paper considers the nature of intelligent systems, and the kinds of information skill that need to be incorporated in intelligent information software. It then proceeds to consider the online search process and the problems involved in providing intelligent aid for the inexperienced searcher. (Authors)

752 Dialogue Systems; OPACs
See also 1-041c, 1-229, 1-267

1-332 752
Cousins,S.A. et al: The collection and indexing of users' queries to provide an understanding of the requirements for enhanced subject access in online public access catalogues. In: Bibliographic access in Europe. Aldershot, Hampsh.: Gower 1990. p.68-76

1-333 752; 812
Gödert, W.: Book review of Holley, R.P.(Ed.): Subject control in online catalogs. Binghampton, NY: Haworth Press 1989. 251p. Orig.en. Int.Classif. Vol 18, No 4, 1991. p.238-240, 3 refs.

1-334 Lisbon, P.: (Review of the same book as under 1-333 in:) Libr.Resources & Techn.Serv. Vol 35, No 1 1990. p.118-119

1-335 Hancock-Beaulieu, M.: (Review of the same book as under 1-333) in J.Doc. Vol 47, No 2, 1991. p.215-218, 2 refs.

1-336 752
Hancock-Beaulieu, M.; Robertson, St., Neilson, C.: Evaluation of online catalogues: eliciting information from the user. Inform.Process.& Management 27(1991)No 5, p.523-532, 11 refs. A front-end system (Olive) was developed to test various enhancements of traditional transaction logging as a data-ga-

thering technique for evaluation purposes. These include full-screen logging, pre- and post-search, online/offline, and in-search interactive questionnaires, search replays as well as talk-aloud. The extent of subject or hybrid searching activity as opposed to specific item searching is also highlighted.
(Authors, abbr.)

1-337 752; 812
Yee, M.M.: System design and cataloging meet the user: user interfaces to online public access catalogs. Orig. en. J.Amer.Soc.Inform.Sci. Vol 42, No 2, 1991. p.78-98, 175 refs. The following features of online public access catalogs are discussed: the demonstration of relationships between records, the provision of entry vocabularies, the arrangement of multiple entries on the screen, the provision of access points, the display of single records, and the division of the catalog into separate files or indexes. For each feature, user studies and other research on OPACs are reviews and the finding summarized. Directions for further research are suggested. (Author)

1-338 752; 982
Yee, M.M.; Soto, R.: User problems with access to fictional characters and personal names in online public access catalogs. Orig.en. Inform.Technol. & Libr. Vol 10, No 1, 1991. p.3-13

753 Online Activities; Query Optimization
See also 1-228, 1-317

1-339 753
Connell,T.H.: Techniques to improve subject retrieval in online catalogs: flexible access to elements in the bibliographic record. Inform.Technol.Libr. Vol 10, (June) 1991. p.87-98 Book Review Digest used to evaluate information on the record.

1-340 753
Frants,V.I.; Shapiro, J.: Algorithm for automatic construction of query formulations in Boolean form. Orig. en. J.Amer.Soc.Inform.Sci. Vol 42 (1991)No.1, p.16-26, 25 refs. The user expresses his search request by a set of documents pertinent to his need. The quality of the search depends only on the algorithm and on how completely and precisely the information need of a user is represented in his search request.
(Authors, abbr.)

1-341 753
Laesch, S.: Enhancing authority control in online systems through connectionist approaches to term association. Orig.en. Chapel Hill, NC: University of NC. Thesis (MSLS) 1990. 33p.

1-342 753
Larson, R.R.: Between Scylla and Charybdis. Subject searching in the online catalog. Orig.en. Advances in Librarianship Vol 15, 1991. p.175-236, many refs.

1-343 753
Larson, R.R.: Classification clustering, probabilistic information retrieval and the online catalog. Orig.en. Libr.Quarterly Vol 61, No 2, 1991. p.133-173, 95 refs.

1-344 753
Peters,T.A.; Kurth, M.: Controlled and uncontrolled vocabulary subject searching in an academic library online catalog. Inform.Technol.& Libr. Vol 10, No 3, 1991. p.201-211, 11 refs.

1-345 753
Quint, B.E.: Inside a searcher's mind: the seven stages of an online search. Online Vol 15, May and July 1991. p.13-18 and 28-31

1-346 753
Slack, F.: Subject searching on OPACs: problems and help provision. Orig.en. Vine, No 83, 1991. p.4-9, 14 refs.

1-347 753
Studwell,W.E.: The role of universal unlimited machine manipulation in online subject access. Orig.en. Technicalities Vol 10, (July) 1990. p.5-6

1-348 754
Brock, J.R.: A microcomputer-based alternative to a printed KWOC index. Orig.en. Program Vol 25, No 4 1991. p.367-372

1-349 755
Fidel, R.: Searchers' selection of search keys, Pt.1: The selection routine. J.Amer.Soc.Inform.Sci. Vol 42, No 7, 1991. p.490-500, 12 refs. The selection routine is a formal decision tree that represents the intuitive rules searchers use when they select search keys, textwords or descriptors. The case study method provided the data through observation of 47 professional online searchers performing their job-related searches; and analysis of verbal and search protocols involved. Each option in the selection of search keys presents the use of a certain combination of textwords and descriptors which searchers choose because of request or database requirements, or because

of their own beliefs. The routine delineates the terminological conditions which lead to the selection of each option. It is the first formal presentation of a human knowledge base of intermediary expert systems. (Author)

1-350 755
Fidel,R.: Searchers' selection of search keys. Pt.2: Controlled vocabulary or free-text searching. J.Amer.Soc.Inform.Sci. Vol 42, No 7, 1991. p.501-514, 19 refs.
Results show that searchers used thesauri and indexing when it was of satisfactory quality and available to them and that these and other database-related reasons were the most influential in search-key selection. There is a need for high quality thesauri which are easily available and for mechanisms, such as switching languages, to aid in multidatabases searches. (Author, abbr.)

1-351 756
Aboud Razouk, M.: Systèmes de recherche d'informations: Thésaurus et classification. (Information retrieval systems: Thesaurus and classification) Orig.fr. Toulouse,FR: Université. Doct. Thesis. 1990. 220p.

1-352 756
Bates, M.J.: Design for a subject search interface and online thesaurus for a very large records management database. In: ASIS'90. Medford, NJ: Learned Inform.1990. p.20-28, 8 refs

1-353 756
Belshakov, I.A.: Thesaurus in word processors: What should it be? (en) Int.Forum Inform.& Doc. 16(1991)No 2, p.3-11,7 refs. A new thesaurus structure for word processors is proposed. In contrast to the known Western analogues (e.g. the thesaurus in the WordPerfect package), the structure includes, in addition to synonyms and antonyms, hyponyms/hyperonyms, epithets of intensity, semantic derivatives and desemantized verbs activating predicative nouns. Content, volume, and possible user groups for each part are substantiated. The synonymic part is discussed in detail. English and Russian examples are provided. (Author, abbr.)

1-354 756
Crawford,J.C.; Powles, J.A.: In-house (locally-generated) subject indexes mounted on academic library OPACs. Orig. en. Library Review Vol 40, No 1, 1991. p.29-36, 11 refs.
Presents results of a further survey of academic library OPAC subject indexing practices and further possibilities.

1-355 756
Girill,T.R.; Griffin,Th., Jones,R.B.: Extended subject access to hypertext online documentation. Pts.I and II: The search-support and maintenance problems. Orig.en. J.Amer.Soc.Inform. Sci. Vol 42, No 6, 1991. p.414-426, 33 refs.

1-356 756
Girill, R.T.: Extended subject access to hypertext online documentation. Pt.III: The document-boundaries problem. Orig.en. J.Amer.Soc.Inform.Sci. Vol 42, No 6, 1991. p.427-437, 29 refs.

1-357 756; 247; 820
Lutes-Schaab, B.: An online thesaurus for fact retrieval from relational databases. Orig.en. St.Augustin: Gesellschaft für Mathematik u.Datenverarbeitung 1990. 12p., 15 refs., Arb.Papiere d.GMD 472

1-358 756
Nohr,H.: Klassifikation als Basis einer Sacherschliessungskomponente im OPAC. Anforderungen an Elemente und Struktur. (Classification systems as an essential component of subject analysis in an OPAC) Orig.de. Bibliotheksdienst Vol 25, No 5, 1991. p.664-670, 13 refs.

1-360 756; 356
Pollard, R.: Hypertext presentation of thesauri used in online searching. Orig.en. Electronic Publ. Vol 3, No 3, 1990. p.155-172, 31 refs.

1-361 756
Smith,Elizabeth H.: Enhancing subject accessibility to the online catalog. Libr.Resources & Techn.Serv. Vol 35, No 1, 1991. p.109-113, 15 refs.

1-362 756
Drabenstott, K.M.; Vizine-Goetz, D.: Search trees for subject searching in online catalogs. Orig. en. Library Review Vol 31, No 3, 1990. p.7-20
Search trees presented in this article control system responses and determine appropriate subject searching approaches to user queries. Users to not explicitly choose a particular approach. Rather, systems respond with an approach based on the extent to which queries match the catalog's controlled vocabulary and produce retrievals. The benefit of incorporating search trees into online bibliographic systems is the ability to place the responsibility of determining which approach produces the best results on the system.

1-363 756
Liu, S.; Svenonius, E.: DORS: DDC Online Retrieval System. Libr.Resources & Techn.Serv. 35(1991)No 4, p.359-375, 8 refs. A model system, DORS, was implemented as an interface to an online catalog for the purpose of experimenting with classification-based search strategies and generally seeking further understanding of the role of traditional classifications in automated information retrieval. Specifications for a classification retrieval interface were enumerated and rationalized and the system was developed in accordance with them. The feature that particularly distinguishes the system and enables it to meet its stated specifications is an automatically generated chain index. (Authors)

1-364 756.448
McGarry,D.; Svenonius, E.: More on improved browsable displays for online subject access. Orig. en. Inform.Technol.& Libr. Vol 10, No 3, 1991. p.185-191, 9 refs. Examination of two problems relating to subject searches: (1) too much material may be retrieved, and (2) the entries are often arranged in what appears to be an unintuitive and useless manner. Empirical data is presented for the assessment of the severity of the two problems and suggestions are given to address them. The test data used was the index of LC Subject Headings in ORION, the UCLA Online Catalog.

757 Expert Systems
See also 1-076, 1-077

1-365 757
Special Issue: Verification and Validation of Knowledge-Based Systems. Orig.en. Expert Systems with Applications Vol 1, No 3, 1990. p.197-322
1-366 Culbert, Ch.: Guest Editor's Note. - 1-367 Bellman, K.L.: The modeling issues inherent in testing and evaluating knowledge-based systems. - 1-368 Chang, C.L.; Combs, J.B., Stachowitz,R.A.: A report on the Expert systems Validation Associate (EVA). - 1-369 O'Keefe, R.M.; Lee, S.: An integrative model of expert system verification and validation. - 1-370 Constantine, M.M.; Ulvila, J.W.: Testing knolwedge-based systems: The state of the practice and suggestions for improvement. - 1-371 Miller, L.A.: Dynamic testing of knowledge bases using the heuristic testing approach. - 1-372 Linden, Th.A.: A meta-level software development model that supports V&V for AI software. - 1-373 Barrett, B.W.: A hypothetical application of the statistical modeling and estimation for reliability functions for software (SMERFS) to Knowledge-Based Systems (KBSs). - 1-374 Landauer, Ch.: Correctness principles for rule-based expert systems. - 1-375 Wood, W.T.; Frankowski, E.N.: Verification of rule-based expert systems.

1-376 757
Aluri, R.; Riggs, D.E. (Eds.): Expert systems in libraries. Norwood, N.J.: Ablex 1990. 342p. ISBN 0-89391-579-0
1-377 Bedford, D.: (Book review of 1-376). In: Inform.Technol.& Libr. Vol 10, No 2, 1991. p.149-151
Extensive review which describes each of the contributions of the following authors: R.Vedder, K.Harmon, D.Cluff, D.Riggs, S.Waters, K.F.Smith, H.D.White, D.Woodward, Nute, R.Fidel, B. Dowell, Ph.Crews, A.Sandburg-Fox, I.Travis, S.Humphrey.

1-378 757
Bench-Capon, T.; Rada, Roy: Expert systems in the UK: From AI to KBS. Orig.en. Expert Systems with Applications Vol 3, 1991. p.397-402, 11 refs.

1-379 757
Driscoll, J.R.; Rajala, D.A., Shaffer, W.H., Thomas, D.W.: The operation and performance of an artificially intelligent keywording system. Inform.Process.& Management Vol 27, No 1, 1991. p.43-54, 40 refs.

1-380 757
Durkin, J.: Introducing students to expert systems. Orig. en. Expert Systems Vol 7, No 2, 1990. p.70-80, 110 refs. The major objectives of an introductory course on expert systems are given: course topics, course material, and insight into how to effectively present the course. The recommendations made are a product of the experiences of the author gained over years of presenting such a course.

1-381 757
Henbry, D.M.: Knowledge-based systems in the AD/Cycle environment. Orig.en. IBM Systems J. 29(1990)No 2, p.274-286, 18refs. IBM's AD/Cycle is directed at improving productivity in the development of Systems Application Architecture (SAA) applications and the management and control of complex application development projects.

1-382 757
Wang,L.; Porter, A.L., Cunningham, S.: Expert systems: Present and future. Expert Systems with Applications Vol 3, 1991. p.383-396, 36 refs.
A forecast of the evolution of expert systems over the coming 5-10 years is aimed at.

1-383   7571
Azgal'ova, E.V.: Knowledge transfer and statement presupposi-
tion in an expertsystem. Orig.ru, transl.into en. Automatic
Doc.& Math.Linguistics Vol 24, No 1, 1990. p.11-14, 10 refs.

1-384   ·   757.31
Vandeur, M.: Approche de l'élaboration d'un système expert
d'aide à l'indexation. (Elaboration approach to an expert sys-
tem to assist indexing) Orig.fr. Cahiers de la Doc., No 4,
1990. p.75-92, 16 refs.

1-385   757.43
Gilroy, J.: An expert system for classification. Orig. en.
Its News, No 22, 1990. p.39-40
Brief report on a project to consider the feasibility of using
an expert system shell (Crystal) as a library classification
tool. The Dewey Decimal Classification was chosen.

1-386   7578
Jeffrey, H.J.: Expert document retrieval via semantic measure-
ment. Expert Systems with Applications Vol 3, 1991. p.345-352,
6 refs.

1-387   7578-53
Derenbach,M.: ExTool-LOOPS-basierte Shell für das medizinische
Expertensystem ExTra. (ExTOOL-LOOPS based shell for the medi-
cal expert syste ExTra) Orig.de. In: Christaller, T.(Ed.);
Ges.Math.u.Datenverarb.; Koordiniertes System von Werkzeugen
für die Konstruktion und den Betrieb von Expertensystemen, Ab-
schluβber.d.Verbundvorhabens WEREX (302p.). St.Augustin, BE:
GMD 1989. p.153-176

1-388   7578-82
Morris,A.: Expert systems for library and information services
- a review. Inform.Process.& Management Vol 27, No 6, 1991.
p.713-724, 103 refs.

1-389   7578-93
Schultz, L.: Designing an expert system to assign Dewey Clas-
sification numbers to scores. Orig.en. In: Nixon, C., Padgett,
L.(Eds.); National Online Meeting. Proc.10th Natl.Online Mtg,
New York, May 9-11, 1989. Medford, NJ: Learned Information
1989. p.393-397, 1 ref.
The author developed an "expert system" that can correctly as-
sign classification numbers to music. Duke University, Durham,
NJ, uses the option of the Dewey Classification schedule that
distinguishes scores and parts from treatises by prefixing M
to the number for treatises, rather than adding extentions.
The test indicated that about 98% of the titles could be as-
signed.

1-390   7579
Preece, A.D.: Towards a methodology for evaluating expert sys-
tems. Expert Systems Vol 7, No 4, 1990. p.215-223, 38 refs.
Empirical and logical evaluation methods are surveyed and both
types of method are applied in an evaluation case study. Pres-
sriptions and an outline for such a methodology which combines
the methods for maximum effectiveness are given.

758 Online Systems in Subject Fields
See also 1-288

1-391   758-254
Ridley,D.D.: Searching for chemical reaction information. Orig
en. In: The Beilstein Online Database. Washington, DC: Amer.
Chem.Soc. 1990. p.88-112

1-392   758-26
Schoch-Grübler, V.; Bast, A.G.: (Sub)structure searches in da-
tabases containing generic chemical structure representations.
Orig.en. Online Review Vol 14, No 2, 1990. p.95-108

1-393   758-26
Wilke, R.N.: Searching for simple generic structures. Orig.en.
J.Chem.Inform.Comput.Sci. Vol 31, No 1, 1991. p.36-40, 12 refs.

1-394   758-262
Franzreb,K.H.; Hornbach, P., Pahde, C., Ploss, G., Sander, J.:
Structure searches in patent literature. A comparison study
between IDC GREMAS and Derwent Chemical Code. Orig.en. J.Chem.
Inform.Comput.Sci. Vol 31, No 2, 1991. p.284-289, 15 refs.
The investigation showed that the IDC GREMAS File offered the
best cost-benefit ratio for Hoechst AG.

1-395   758-51/4
Shaw, W.M.Jr.: Subject and citation indexing. Pt.I: The clus-
tering structure of composite representations in the cystic
fibrosis document collection. Orig.en. J.Amer.Soc.Inform.Sci.
Vol 42, No 9, 1991. p.669-675, 20 refs.

1-396   758-51/4
Shaw, W.M.Jr.: Subject and citation indexing. Pt.II: The opti-
mal, cluster-based retrieval performance of composite repre-
sentations. Orig.en. J.Amer.Soc.Inform.Sci. Vol 42, No 9, 1991.
p.676-684, 33 refs.

1-397   758-544
Ekstrand, N.L.: Efficient MEDLINE searching of the radiologic
literature. Orig.en. Med.Ref.Serv.Quarterly Vol 10, 1991. p.1-

1-398   758-56
Wang, P.T.: Searching ERIC for materials related to the R.O.C.
Orig.en. J.Libr.Inform.Sci. Vol 16, (April) 1990. p.27-37

1-399   758-6; 387
Ohly, P.: Conceptual information retrieval by knowledge-based
programming techniques. Orig.en. Int.Classif. Vol 18, No 3,
1991. p.148-152, 29 refs.

1-400   758-817
DeHart, F.; Scott, L.: ISI research fronts and online subject
access. Orig.en. J.Amer.Soc.Inform.Sci. Vol 42, No 5, 1991.
p.386-388, 3 refs.

1-401   759
Gomez, L.M.; Lochbaum, C.C., Landauer, Th. K.: All the right
words: Finding what you want as a function of richness of in-
dexing vocabulary. J.Amer.Soc.Inform.Sci. Vol 41, No 8, 1990.
p.547-559, 22 refs.

76 Lexicon/Dictionary Problems
See also 1-072

1-402   763
Nutter, J.T.; Fox, E.A., Evens, M.W.: Building a lexicon from
machine-readable dictionaries for improved information re-
trieval. Literary & Linguistic Computing Vol 5, No 2, 1990.
p.129-137, 25 refs.
The project described enables IR systems to go beyond present
indexing methods and bringing the actual performance of such
systems closer to their potential.

1-403   768
Spinosa, G.; Farina, L.(Eds.): Humanities Computing in Italy.
Computers & the Humanities Vol 24, No 5-6, 1990. p.337-493
A good number of papers in this issue contribute to lexico-
graphical problems. They have been selected as follows:
1-404 Busa,R., SJ: Infomatics and new philology. - 1-405 Nen-
cioni, G.: The Accademia della Crusca: New perspectives in le-
xicography. - 1-406 Ceccoli, U.: The Italian Vocabulary Center.
1-407 Savoca, G.: A literary lexicography project for the Ita-
lian language. - 1-408 Spinosa, G.: Philosophical lexicography:
The LIE and the use of the computer. - 1-409 Zampolli,A.: Sum-
mary of the activities of the Istituto di Linguistica Computa-
zionale. - 1-410 Marinone,N.: A project for Latin lexicography:
1.Automatic lemmatization and word list. 1-411 Bozzi, A.; Cap-
pelli, G.: A project for Latin lexicography: 2. A Latin morpho-
logical analyzer. - 1-412 Fameli, E.; Nannucci, R.: Legal in-
formatics research in Italy: The Istituto per La Documentazio-
ne Giuridica of the Italian National Research Council. - 1-413
Georgi,R.M.di; Nannucci, R.: Recent trends in legal bibliogra-
phical documentation. - 1-414 Bartoletti Colombo, A.M.: Justi-
nian lexicography. - 1-415 Delmonte, R.: Semantic parsing with
LFG and conceptual representations.

77 General Problems of Terminology
See also 1-002, 1-003, 1-030, 1-079, 1-097, 1-101, 1-103
1-104, 1-510, 1-512

1-416   .   .   77.07
Bühler, H.: Book review of Arntz, R., Picht, H.: Einführung in
die Terminologiearbeit. (Introduction into terminology work).
Hildesheim: G.Olms Verlag 1989. 344p. Orig.de. Int.Classif.
Vol 18, No 3, 1991. p.173

1-417   77.07
Eisele, H.: Book review of Hohnhold, I.: Übersetzungsorientier-
te Terminologiearbeit. Eine Grundlegung für Praktiker (Transla-
tion-oriented terminology work). Stuttgart: InTra. 1.Fachüber-
setzergenossenscha t 1990. Orig.en. Int.Classif. Vol 18, No 3,
1991. p.171-173

1-418   77.07
Sager, J.C.: A practical course in terminology processing (with
a bibliography by Blaise Kmwenti-Azeh). Orig.en. Amsterdam/
Philadelphia: John Benjamins Publ.Co. 1990. 254p., 390 refs.
Contains the following 8 chapters: What is terminology? The
cognitive dimension. The linguistic dimension. The communica-
tive dimension. Compilation of terminology. Storage of termi-
nology. Retrieval of terminology. Usage of terminology. The
text is based on many years of teaching in this field of
knowledge.

1-419   77.07
Superanskaya,A.V.; Podol'skaya,N.V., Vasil'eva,N.V.: Obshchaya
terminologiya. Voprosy teorii. (General terminology science.
Questions of theory) Orig.ru. Moskva: Nauka 1989. 246p.
1-420 Hoffmann, Lothar: (Book review of 1-419). Orig.de.
Fachsprache Vol 12, No 3-4, 1990. p.160-161

1-421 771
Cabré, M.T.: Terminologie ou terminologies. Spécialité lingui-
stique ou domaine interdisciplinaire?. Orig.fr. TermNet News,
No 29/30, 1990. p.23-29, 10 refs.

1-422 771
Friedrich,M.; Gerstenkorn,A., Hetschold,T.: Terminologieverwal-
tungssysteme. Ergebnisse einer Umfrage. (Terminology manage-
ment systems. Results of an inquiry) Orig.de. Mitteilungsblatt
f.Dolmetscher u.Übersetzer Vol 37, No 4, 1991. p.3-7, 5 refs.

1-423 771
Galinski, Ch.: Terminology planning and the knowledge industry.
Orig.en. Newsletter for Terminology and Knowledge Transfer,
No 3-4, 1991. p.5-10
A survey on what terminology planning aims at, its necessity,
its relationship to other fields of knowledge and activities,
terminological institutions and activities, tenninological
institutions and international cooperation in terminology.

1-424 771; 777 ch
Huang, Zh.: On the examination, approval and unification of
scientific and technical terminology. Orig.en. TermNet News,
No 29/30, 1990. p.33-35

1-425 771.99
Shusen,J.; Zhiyou,Zh.: Introduction to MATER, an exchange for-
mat for terminological and lexicographic records. Orig.ch.
Qingbao kexue (Inform.Sci.) Vol 9, No 2, 1988. p.91-93

1-426 772
Antonova, M.V.; Leichik, V.M.: The functions of scientific and
engineering terms and their applications in information pro-
cesses. Orig.ru, transl.into en. Automatic Doc.& Math.Lingui-
stics Vol 24, No 6, 1990. p.1-7, 33 refs.

1-427 772
Grinev, S.V.: Description of terminologies: a parametrical ap-
proach. Orig.en. TermNet News, No 29/30, 1990. p.10-11

1-428 773
Daoust, D.: The evaluation of sociolinguistic and terminologi-
cal change in a commercial enterprise. Orig. en.
TTTF Journal Vol 2, No.1, p.44-60, 6 refs.

1-429 773; 777
Goulet,P.: Réseau international de néologie et de terminologie
La recherche terminologique au sein du module canadien. (In-
ternational Center for Neologisms and Terminology. Terminolo-
gical research in the Canadian way) Orig.fr. TermNet News, No
29/30, 1990. p.6-9

1-430 773
Grinsted, A.: LSP communication and the role of terminology in
a large international company. Orig.en. TTTF Journal Vol 2,
No 1, 1991. p.22-43, 31 refs.

1-431 773
Schaetzen, C.de: L'ordinateur peut-il fabriquer des diction-
naires? (Can the computer build dictionaries?) Orig. fr.
Banque des Mots, No 40, 1990. p.21-34

1-432 773
Schaetzen,C.de: L'arbre notionnel dans les travaux de fin d'é-
tude de terminographie. (The tree of concepts for terminogra-
phical work) Orig.fr. TermNet News, No 29/30, 1990. p.30-32

1-433 773; 78-51/4
Kratenok,V.E.: Streamlining dictionary terminologies in devel-
oping problem-oriented information banks in medical subject
areas from external databases. Orig.ru. In: Metodol.probl.med.
informat.i naukoved.. Moskva 1989. p.284-289, 3 refs.

1-434 776
Irazazabal,A.de; Alvares,S., Zarco,· J.: EURODICAUTOM: el banco
de datos terminologico de la CEE. (The terminology database of
the European Communities) Orig.es. Rev.esp.doc.cient Vol 12,
No 1, 1989. p.11-22
The report stresses the Spanish input into the said database.

1-435 776
Jager, H.de: De Eurotermbank. Orig.nl. Terminol.& Traduct. No.
3, 1990. p.187-193

1-436 776
Mengarduque, J.R.: Evaluatie van twee terminologie-projekten.
(Evaluation of two terminology projects. A Dutch contribution
to the consolidation and extension of the Eurodicautom collec-
tions) Orig.nl. Terminol.& Traduct., No 3, 1990. p.175-186
Summary in French (p.183-186).

1-437 776
Schmitt,P.A.: Die Terminologiedatenbank des Fachbereichs Ange-
wandte Sprachwissenschaften der Johannes-Gutenberg-Universität
Mainz in Germersheim. (The terminology databank of the faculty

of Applied Linguistics of the University of Mainz in Germers-
heim) Orig.de. Terminol.& Traduction, No 3, 1990. p.39-61

1-438 776.99
The Austrian Standards Terminology Database. Orig. en.
Int.Classif. Vol 18, No 3, 1991. p.164-165
History - Establishment, Possibilities for use - Exchange of
terminological data - Other uses - State-of-the-art.

777 Country and Language Oriented Terminology Work
See also 1-424, 1-329

1-439 777
Sanches Carvalho,D.E.M.F.; Ricardo-Marques,M.E., Santos,I.A.S.
R.: Terminologie Européenne. (European terminology) Orig. fr.
Banque des Mots, No 40, 1990. p.3-20

1-440 777
Politano, D.: La terminologie en Italie. (The terminology in
Italy) Orig.fr, Banque des Mots, No 40, 1990, p.55-58

1-441 777 ru
(Tenninological data banks and activities in the USSR).
Orig.en. TermNet News, No 31, 1990. p.1-44
1-442 Dzhincharadze, A.K.: Main trends in tenninology standar-
dization activities in the USSR. - 1-443 Karaulov, Yu.N.: The
computerized library of the Russian language and its role in
the development of the Russian language. - 1-444 Prohorov,V.N.,
Volkova, L.N.: Computerized data bank on standardized tennino-
logy (ABnD SOVTERM). - 1-445 Beloozerov, V.; Fedosimov, V.,
Nosikov, S.: ASVIA: A national data bank for information lan-
guages. - 1-446 Danilenko, L.P.: Information and terminology
services offered to economic organizations and enterprises.
1-447 Dovbenko, M.A.: Activities of the CMEA Institute for
Standardization in the field of tenninology. - 1-448 Sharle,
D.L.: Basic methodological principles of terminology standar-
dization. - 1-449 Savilov, E.S.; Nalepin, V.L.: Problems of
harmonization in the preparation of the Russian versions of
international tenninology standards. - 1-450 Minaeva, T.Ja.;
Varshamova, N.V.: The role of standardized terminology in the
preparation and development of a system of standards on "Re-
prography". - 1-451 Ugrjumova,V.N.: Some aspects of methodolo-
gy of terminology standardization in the fields of scientific
and technical information; library and publishing work: diffi-
culties and achievements.

1-452 777
Yannai, Y.: Many achievements and a few failures in a century
of planned Hebrew. TermNet News, No 29/30, 1990. p.17-22

1-453 777
Lanballe, A.: L'expression des données techniques en hindi:
adoption de termes étrangers et création de mots nouveaux.
(The expression of technical data in Hindi: adoption of fo-
reign terms and creation of new words) Orig.fr. TermNet News,
No 29/30, 1990. p.14-16

1-454 777
Fan,Jing: Some views on the terminology of science and techno-
logy in China. Orig.en. TermNet News, No 29/30, 1990. p.12-13

1-455 778
Ickler, Th.: Book review of Hoffmann, Lothar: Vom Fachwort zum
Fachtext. Beiträge zur Angewandten Linguistik (From special
term to special text. Contributions to applied linguistics).
Tübingen: G.Narr Verlag 1988. 265p. Orig.de. Muttersprache Vol
101, No 4, 1991. p.366-368

78 Subject-Oriented Terminology Work
See also 1-040

1-456 78-355
Becherel,D.: De l'océanographie à l'océanologie. (From oceano-
graphy to oceanology) Orig.fr. Banque des Mots, No 40, 1990.
p.35-54

1-457 78-355
Delahaye,M., Hugol,D.H.: Répertoire des dictionnaires et glos-
saires à l'usage des océanographes. (Repertory of dictionaries
and glossaries for the use of oceanographers) Orig.fr.
Océanis Vol 16, No 1, 1990. 74p.

1-458 78-49
Stoss, F.W.: Environment online: the greening of databases.
Pt.1: General interest databases. Orig.en. Database Vol 14,
No 4, 1991. p.13-27, 10 refs.

1-459 78-527
Dubois, B.: Terminologie de l'échographie médicale (principes
et technique). (Terminology of medical sonography (principles
and techniques)) Orig.fr. Banque d.Mots, No 40, 1990. p.59-73

1-460 78-7
Bühler,H.: Book review of Bungarten, Th.(Ed.): Sprache und In-
formation in Wirtschaft und Gesellschaft. (Language and Infor-
mation in economics and society). Referate eines Internationa-

len Kongresses - zugleich der XI.Jahrestagung der internationalen Vereinigung "Sprache und Wirtschaft", 30.9.-3.10.1985. Hamburg: Attikon Verlag: Tostedt 1988. 502p. Orig.de.
Fachsprache Vol 13, No 1-2, 1991. p.79-71

1-461   78-82
Rückl, S.; Schmoll, G.: Konvergenzen und Divergenzen der deutsch-deutschen Fachterminologie auf dem Gebiet der Information und Dokumentation. (Convergence and divergence in German-German information and documentation terminology) Orig. de.
In: Neubauer, W., Schneider-Brien, U. (Eds.): Dt.Dokumentartag 1990, Fulda, 25-27 Sept.1990. Frankfurt/Main 1991. p.421-435

1-462   78-826
Bernier, G.: Les mots du milieu "Index de citations". (The words of the medium "citation indexes") Orig.fr. Doc.Bibl. Vol 36, No 3, 1990. p.95

1-463   78-88
Dewey, P.R.: Fax for libraries. Orig. en. Westport, CT, USA: Meckler 1990. 138p., 11 refs., Supplement to Computers in Libraries 13
Included is a directory of popular fax machines, a list of fax vendors, a bibliograuhy of relevant literature and a glossary of important fax terminology.

79 Problems of Multilingual Systems
See also 1-978, 1-101

1-464   793
Yashchenko, T.V.: A matrix method of automatic identification and translation into Russian of compound English scientifi and engineering tenns. Orig.ru, transl.into en. Automatic Doc. & Math.Linguistics Vol 24, No 6, 1990. p.27-37, 7 refs.

1-465   794
Kunz, M.: Einige grundsätzliche Überlegungen zur Erarbeitung einer mehrsprachigen Schlagwortnormdatei. (Some basic construction ideas toward a multilingual standard subject heading list) Orig.de. Dialog mit Bibliotheken Vol 3, No 3, 1991. p.26-33, 8 refs.

1-466   795
Salem,S.: Computerized bilingual thesauri: problems of thesauri construction and development in Arabic languages - case studies. Orig.en. Microcomputers for Inform.Management Vol 8, No 1, 1991. p.27-44

8 APPLIED CLASSING AND INDEXING (C & I)
81 General Problems of Applied C & I
See also 1-041c, 1-337, 1-522

1-467   812; 814
Sickmann, A.: Regeln für ein Schlagwortregister mit Thesaurusstruktur als Instrument terminologischer Kontrolle für einen nach den "Regeln für den Schlagwortkatalog (RSWK)" geführten Schlagwortkatalog in Spezialbibliotheken. (Rules for a subject index with a thesaurus-like structure as terminological control aid for a subject catalogue arranged according to RSWK in special libraries) Orig.de. In: Probl.Katalogis.in Parlaments- u. Behördenbibliotheken. Karlsruhe: APBB 1990. p.32-63

1-468   812; 814
Sickmann, A.: Anwendung der Regeln für den Schlagwortkatalog (RSWK) für Spezialbibliotheken, die über ein Schlagwortregister mit Thesaurusstruktur verfügen. Nebst Anhang: Für die RSWK-Anwendung modifizierte, erw. Anl.5 der RSWK. (Application of the rules for subject catalogues in special libraries having a subject-heading list with a thesaurus structure at their disposal). Orig.de. In: Probl.d.Katalogis.in Parlaments- u.Behördenbibl. (Arb.Hefte 44). Karlsruhe: APBB 1990. p.64-107

1-469   814
Bies, W.: Book review of Beispielsammlung zu den Regeln für den Schlagwortkatalog (Collection of examples concerning the Rules for the Subject Catalogue, RSWK). Red.R.Frankenberger, Berlin: Deutsches Bibliotheksinstitut 1991. 459 p.) Orig.de. Int.Classif. Vol 18, No 4, 1991. p.241-243, 3 refs.

1-470   814
Junginger, F.: Regeln für den Schlagwortkatalog (RSWK) Ergänzungen und Berichtigungen. (Rules for the subject catalog: Supplements and corrections).Orig.de. Bibliotheksdienst Vol 25, No 3, 1991. p.385-399

1-471   814
Schubert, H.-J.: Die Regeln für den Schlagwortkatalog (RSWK) - Aufbau und Anwendung. (Rules for the Subject Catalogue: Construction and application) Orig.de. Zentralbl.für Bib.wesen Vol 104, No 12, 1990. p.545-555
Reports about history, characterisitcs, construction and the essential determinations, as well as applications.

1-472   814
Thiele, R.: Eine Anmerkung (zu "Was ist sinnvolle Schlagwortsyntax (eine Polemik)"), zugleich ein Nachruf. (A comment (to "What kind of a subject heading syntax makes sense"), at the same time an obituary) Orig.de. Bibliotheksdienst Vol 25, No 4, 1991. p.618-619
The obituary is directed towards the fact that the PRECIS system is not any longer used by the British National Bibliography because the complex coding system of the PRECIS syntax was considered negligeable.

1-473   814
Studwell, W. E.: Commandments, constitutions and codes: a glimpse at reality (necessity for an extensive, detailed theoretical code for subject cataloging). Orig.en. Technicalities Vol 10, (Sept.) 1990. p.11-12

1-474   814
Studwell, W.E.: Least effort: one more reason to change the overall policies/practices relating to LC subject headings. Orig.en. Technicalities Vol 10, (Oct.) 1990. p.4-5

1-475   814.03
Sadowska, J.: Subject processing. Orig. pl.
Por.bibl. Vol 42, No 1-3, 1990. p.45-46

1-476   8148-93
Deutsches Bibliotheksinstitut. Kommission für Sacherschliessung, Arb.Gruppe RSWK-Musik: Regeln für den Schlagwortkatalog (RSWK). Musikalien und Musiktonträger. Entwurf. (Rules for the Subject Catalogue: Musical works and music carriers).Orig.de. Berlin: Dt. Bibliotheksinst.1991. 27p., ISBN 3-87068-398-8

818   Indexes and Catalogues in Certain Institutions

1-477   818
Kalczynska, M.: The subject catalog pattern in Lwow. Orig.pl. Bibliotekarz Vol 55, No 4, 1988. p.28-31

1-478   818
Sofromova,E.S.: The subject catalogue in a scientific library. Orig.ru. Nauchn.i tekhn.biblioteki SSSR, No 8, 1990. p.40-43

82 Data C & I
See also 1-357

1-479   82-256
Barth. A.: Physical property data: capabilities for search and retrieval. Orig.en. In: The Beilstein online database. Washington, DC: Amer.Chem.Society 1990. p.113-129

83 Title C & I
See also 1-310

1-480   832
Bachir, I.; Buxton, A.: The information content of titles of Arabic periodical articles. Orig. en.
J.Inform.Sci. Vol 17, No 1, 1991. p.57-63, 23 refs.

1-481   832
White,A.; Hernandez,N.R.: Increasing field complexity revealed through article title analyses. J.Amer.Soc.Inform.Sci. Vol 42, No 10, 1991. p.731-734, 11 refs.

1-482   833
Sano, H.: Extraction of facet terms from article titles and their display in tabular form. Orig. en.
J.Inform.Sci. Vol 17, No 1, 1991. p.43-48, 17 refs.

85 Book Indexing
See also 1-041d, 1-044

1-483   851
Spaulding, A.; Thomas, A.R.: Book indexing: Principles and techniques. J.Educ.Libr.Inform.Sci. 31(1991)No 3, p.258-260

1-484   857
Kumano, Sh.: KWIC indexing of Japanese book titles. Orig. ja. Online Kensaka Vol 12, No 1, 1991. p.2-15

86 C & I of Secondary Literature

864   Citation Indexing
See also 1-199

1-485   864
Stephens,I.E.: Citation indexes improve bibliography in technical communication. Orig.en. J.Techn.Writing & Communic. Vol 21, No 2, 1991. p.117-125, 16 refs.
Shows how such indexes can improve the efforts of researchers.

1-486   8648-969
Zus'man, O.M.: The priority of Russia. Orig.ru. Sov.Bibliogr.,
No 4, 1989. p.56-58
Publication of the first citation Index in a Russian archeolo-
gy journal.

87 C & I on Non-Book Materials

1-487   871
Roddy, K.: Subject access to visual resources: what the 90s
might portend. Orig.en.
Libr.Hi Tech. Vol 9, No 1, 1991. p.45-49

1-488   871
Weihs,J.; Lewis, Sh. (Eds.): Nonbook materials. The organiza-
tion of integrated collections. Orig.en. Ottawa, Canada: Cana-
dian Library Assoc. 1989. IX,151p., ISBN 0-88802-240-9

1-489   8728-68
Thiel, T.J.; Meconnahey, C.M., Gielda, S.A.: Document indexing
for image-based optical information systems. Orig.en.
Documentation Image Automation Vol 11, No 2, 1991. p.82-88

1-490   873
James, B.G.; Brown, B.L.: Dominion over the fiche. Adding mi-
crofom titles to an online catalog. Orig.en.
Microfom Review Vol 20, No 1, 1991. p.15-21, 17 refs.

88 C & I in Subject Fields

88-2   C & I in the Matter and Energy Area 2

1-491   88-256
Barthel, J.; Popp, H.: ELDAR, a knowledge base system on micro-
computer for electrolyte solutions. The factual knowledge of
ELDAR. Orig.en. J.Chem.Inform.Comput.Sci. Vol 31, No 2, 1991.
p.107-115, 28 refs.

1-492   88-26
Coghlan,J.: Algorithm versus database-produced chemical index-
ing. Orig.en. Database Vol 13, (June) 1990. p.57-62

1-493   88-267
Rieder, M.: The IFI polymer indexing system: its past, present,
and future. Orig.en. J.Chem.Inform.Comput.Sci. Vol 31, 1991.
p.458-462, 3 refs.

1-494   88-284
Brock, J.R.: A microcomputer-based alternative to a printed
KWOC index. Orig.en. Program Vol 25, No 4, 1991. p.367-372

88-5   C & I in the Human Area 5
See also 1-243

1-495   88-553
Jordan, R.P.: Subject cataloguing of personality tests. Col-
lege & Research Libraries 52(1991)No 3, p.256-262, 30 refs.

1-496   88-56
Henry, G.; Diodata, V.: The rates of assignment of thesaurus
terms in the ERIC information retrieval system: an analysis of
hierarchies and levels. J.Doc. Vol 47, No 3, 1991. p.276-283,
11 refs.

1-497   88-56
Pickens, K.: Adapting ERIC to New Zealand. Orig. en.
New Zealand Libraries Vol 46, No 6, 1990. p.22-23, 7 refs.

88-6   C & I in the Socio Area 6

1-498   88-61
Korobejnikov, V.S.: Methods for formal analysis of documents.
Orig.ru. In: Metody sbora Inform.v s ts.issled. Kn.2. Moskva
1990. p.68-85
Discussion of various methods of content analysis of documents
in sociological studies.

88-8   C & I in the Science and Information Area 8

1-499   88-83
Sommerschuh, K.-J.: Sacherschließung des Fachgebiets Datenver-
arbeitung unter besonderer Berücksichtigung der Systematik für
Bibliotheken (SfB). (Subject analysis of the field of data
processing with special emphasis on the Classification System
for Public Libraries (SfB)) Orig.de. Köln: Fachhochschule für
Bibliotheks- und Dokumentationswesen; Hausarbeit 1990.

1-500   88-889
Post, M.: Die Sacherschließung in der Philatelistischen Bibli-
othek München. (Subject analysis in the philatelistic library
of Munich) Orig.de. Hamburg: Fachhochschule. Fachbereich Bib-
liothekswesen, Diplomarbeit 1990.

9 CLASSIF ENVIRONMENT

91   Organization in Single Centers and Stations
See also 1-043

1-501   913
Kwasnik, B.H.: The importance of factors that are not document
attributes in the organization of personal documents. Orig.en.
J.Doc. Vol 47, No 4, 1991. p.389-398

1-502   913
Stephan, W.; Deutsches Bibliotheksinstitut: Kooperative Füh-
rung einer Schlagwortnormdatei: Fortführung einer Schlagwort-
normdatei (SWD). Bericht über ein Projekt der Deutschen For-
schungsgemeinschaft. (Cooperative management of a subject au-
thority file. Report on a project of the German Research Asso-
ciation. Orig.de. Berlin: Deutsches Bibliotheksinstitut 1991.
39p.

1-503   919
Petersen, T., Molholt, P.(Eds.): Beyond the book: extending
MARC for subject access. Boston, MA: G.K.Hall 1990. IX,275p.
0-8161-1924-4
1-504 Rawson, St.: (Book review of 1-503. J.Doc. Vol 47, No
4, 1991, p.409-410

92 Persons and Institutions

1-505   922
Rayward, W.B.: The case of Paul Otlet, pioneer of information
science, internationalist, visionary: reflections on biography.
Orig.en. J.Librarianship & Inform.Sci. Vol 23, No 3, 1991.
p.135-145, 28 refs.
Paul Otlet was the cofounder of the present International Fe-
deration for Information and Documentation (FID) and the Union
of International Associations, developer of the Universal De-
cimal Classification, theorist of 'Documentation' and pioneer
in information science. An apercu of his life is given.

1-506   923
Ashworth, W.: Book review of Kumar, G.: Ranganathan, Dewey and
C.V.Raman: a study in the arrogance of intellectual power. New
Delhi: Har-Anand Publ. in assoc.with VIKAS 1991. 147p. Orig.en
J.Doc. Vol 47, No 4, 1991. p.440-441

1-507   924
Atanasiu,P.; Teodoru,V.: Eric de Grolier la a 80-a aniversare.
(Eric de Grolier has had his 80th birthday) Orig.ro. Studi si
Comunicari Stiri Din Tara, Bucuresti, No 5, 1991. p.224-231
Based on the de Grolier Festschrift issue (Int.Classif.91-2)
the article gives an account of Eric de Grolier's accomplish-
ments in the field of classification.

1-508   925
Dent, B.: Cataloguing and Indexing Group's Membership Survey,
1989. Orig.en. Cat,& Index, No 100, 1991. p.1, 3-5
A questionnaire was sent to each member of the Group In Oct.
1989, a total of 2516. 548 responses were received. The resul-
ting statistics are shown: according to type of library/infor-
mation unit, title of post held, information retrieval related
duties, particular professional interests, membership in other
Library Association groups, etc.

1-509   925
James, St.: Cataloguing and Indexing Group in Scotland. An in-
side view. Orig.en. Cat.& Index, No 98-99, 1990. p.1, 3-4

1-510   925; 77
Humbley,J.: Les activités du Centre de terminologie et de néo-
logie, premier semestre 90. (The activities of the Center for
Terminology and Neology in its first period) Orig.fr.
TermNet News Vol 29/30, 1990. p.39-40

1-511   925; 77
Schweizerische Bundeskanzlei. Sektion Terminologie. (Swiss Fe-
deral Chancellery. Department of Terminology) Orig.en.
TermNet News, No 29/30, 1990. p.42-43
As late as 1982 the WG "Terminology" noted that terminology
work within the Swiss Administration was being carried out
without any coordination. There are about 170 permanently em-
ployed and some 80 freelance translators in more than 70 Fed-
eral Offices and departments. Report on solutions adopted.

1-512   925; 77
Vsesoyuznyj Nauchno-issledovatel'skij Institut tekhnicheskoj
Informatsii, Klassifikatsii i kodirovaniya (VNIIKI). (All-Uni-
on Scientific and Research Institute for Technical Informa-
tion, Classification and Coding) Orig.en. TermNet News, No 29/
30, 1990. p.41

1-513   928
Wheatley Medal. Orig.en. Indexer Vol 17, No 3, 1991. p.194-195
Text of the award as well as acknowledging words going to Mr.

Richard Raper for the cumulated index to "The works of Charles Darwin". Commended by the Wheatly panel was also Ann Hudson for the General Index to Sussex Archeological Collections.

93 Organisation on a Natl. & Internatl. Level

934 Activities in Europe
See also 1-219, 1-244

1-514 934 AT
Auer, G.: Die Zentrale Redaktlon Sacherschliessung im österreichischen Bibliotheksverbund. (The central editorial office for subject analysis in the Austrian Library Network) Orig.de. Fakten, Daten, Zitate Vol 11, No 1, 1991. p.11-13
Since 1988 a number of scientific libraries in Austria are connected to the system BIBOS as a computer-supported integrated network system. In the article the necessity and possibility to cooperate also in the area of subject analysis is described.

1-515 934 DE
Bösing, L.: Sacherschließung im Verbund aus der Sicht einer Teilnehmerbibliothek. (Subject analysis in a network of collaborating libraries, under the aspect of a participating library) Orig.de. Bibliothek Vol 14, No 3, 1990. p.316-318

1-516 934 DE; 333
Franken, K.; Nagelsmeier-Linke, M.: Sacherschließung im Verbund und lokal aus der Sicht der Bibliotheksleitung. (Subject analysis in a network and within a center seen under the aspect of library management) Orig.de. Bibliothek aktuell, No 58, 1990. p.4-7
In order to meet the users' requests it is proposal to use the German Library's cataloguing data also in the Konstanz University Library.

1-517 934 DE
Lorenz, B.: Bibliotheksklassifikation im Verbund: Notizen zur Anwendung der Regensburger Aufstellungssystematiken. (Library classification in a network: notes concerning the application of the Regensburg shelving system) Orig.de. In: Bibliothekslandschaft Bayern: Festschrift f.Max Pauer zum 65.Geburtstag unter Mitw.von Gerhard Hanusch hrsg.v.Paul Niewalda. Wiesbaden: Harrassowitz 1989. p.97-127

1-518 934
Schnelling,H.: Katalogisierung in einem Bibliotheksverbund unter besonderer Berücksichtigung der Sacherschließung. (Cataloguing in a library network with special emphasis on subject analysis) Orig.de. Zlbf.Bibl.wes. 104(1990)No 12, p.556-564

1-519 934.33 DE
Schwan-Michels, R.: Gemeinsame Schlagwortkatalogisierung nach RSWK im HBZ-Verbund. (Cooperative subject cataloguing according to RSWK in the HBZ-network (HBZ = University Library Center)) Orig.de. Mitt.bl.NRW Vol 40, No 1, 1990. p.51-58

1-520 934.33 DE
Schwan-Michels, R.: Sacherschließung nach RSWK im HBZ-Verbund: Verfahren und Abläufe der gemeinsamen Schlagwortkatalogisierung. (Subject analysis according to the Rules for Su ject Catalogues in the University Library Center Network: Procedures and work flow of cooperative subject cataloguing) Orig.de. Bibliothek Vol 14, No 3, 1990. p.311-315

1-521 934.33 SU
Malevich,E.N.: Centralization and decentralization of the subject analysis of library stocks in a federal state. Orig.ru. In: Tez.dokl.i soobshch.konf.po itogam n.-i.raboty Gos.biblioteki SSSR im V.I.Lenina zu 1989 g., 20 apr.1990. Moskva 1990. p.38-40

1-522 934.812 SU
Tsvetkova, I.B.: Problems in perfecting the system of subject catalogues in the Russian Federation's District Libraries. Orig.ru. Sbor.nauch.tr., Leningr.gos.inst.kul'tury, No 125, 1988. p.132-154

1-523 935 CN
Zeng, L.: An overview of the abstracting and indexing services in China. Indexer Vol 17, No 2, 1990. p.99-107, 21 refs.
A picture of the development of A&I services in China and identification of their problems to encourage more attention.

1-524 936
Mwafor, B.U.: Indexing services in Nigeria: problems and prospects. Orig.en. Indexer Vol 17, No 3, 1991. p.185-188, 9 refs.
Recent indexing developments including the National Indexing Project of the National Library of Nigeria are highlighted.

1-525 936 NI
Otokunefor, H.C.; Nwodo, C.O.: The coming of age of book publishing and indexing in Nigeria. Orig.en. Library Review Vol 39, No 4, 1990. p.33-40, 16 refs.

95 Education and Training

1-526 951
Capurro, R.: Ethik und Informatik. Die Herausforderung der Informatik für die praktische Philosophie. (Ethics and Computer Science. The challenge of computer science for practical philosophy) Orig.de. Informatik-Spektrum Vol 13, No 6, 1990. p.311-320, 92 refs.
The discussion on the ethical implications of informatics is considered in connection with the question of a new paradign for this field.

1-527 952
Nohr, H.: The training of librarians in content analysis. Some thoughts on future necessities. Orig.en. Int.Classif. Vol 18, No 3, 1991. p.153-157, 12 refs.

1-528 953
Aschero, B.: L'Indicizzazione per soggetti: riflessionl sulla didattica. (Subject indexing: reflections on its didactics) Orig.it. Boll.Bibl., No 35, 1990. p.49-50

1-529 955
Gödert, W. (Comp.): Klassifikationssysteme: Theorie und Anwendung für Buchaufstellung in wissenschaftlichen Bibliotheken, systemat.Kataloge, Bibliogr.u.Online Retrieval; Materialien begleitend zur Veranstaltung, Teile 1 u.2. (Classification Systems: Theory and application for shelving in scientific libraries, classified catalogues, bibliographies and online retrieval. Materials to accompany classes) Orig.de. Hamburg: Fachhochschule, FB Bibl.wes.1989. (1)IV,226p., (2) p.227-436
The collection of "accompanying materials" cover the examples of systems, standards, exercises, etc. which are needed for teaching the subject of classification systems and indexing.

1-530 958-51/4
Calabretta,N.; Laynor, B.: Watch your language: a CAI approach to teaching MeSH. Orig.en. Medical Reference Services Quarterly Vol 9, No 4, 1990. p.1-16, 9 refs.

1-531 957 IT
Aschero, B.: Professional training of indexers in Italy: problems and suggestions. Orig.it. L'Indicizzazione Vol 4, No 1, 1989. p.22-46
After analyzing the present programs relevant to the professional training of librarians, archivists, and documentalists, it is emphasized that the profession of indexers Is atypical and cannot be assimilated to any of the three types mentioned. The author therefore suggests to set up different training courses, for graduates as well as for holders of diplomas. In the latter part of the article methodological suggestions for specific courses are offered.

97 Economic Aspects

1-532 977
Everest, M.J.: Comparison of the performance of SDI profiles on the ISNPEC database, before and after the addition of searchable abstracts. Orig.en. J.Inform.Sci. Vol 17, No 1, 1991. p.37-42, 4 refs.
The study of the relevance and quality of 24 SDI profiles suggested that when good abstracts are written, indexing terms may be unnecessary.

98 User Studies

1-533 981
Prager,J.M.; Lamberti,D.M., Gardner,D.L., Balzac,S.R.: REASON: An intelligent user assistant for interactive environments. Orig.en. IBM Systems J. Vol 29(1990)No 1, p.141-164, 42 refs.
Description of the design methodology used to build REASON (Real-time Explanation And SuggestiON), an intelligent user-assistant prototype for a windowed, multitasking environment. REASON's central component is an inference engine that solves problems arising from a user's activity. When the user makes one of several kinds of errors, the inference engine offers dynamically generated suggestions about what the user might have intended. The user can also query REASON using natural language. In addition to providing suggestions of corrected input or answers to questions, REASON can provide two complementary types of explanations of these responses, derived from the inferences that led to them. (Author, abbr.)

1-534 981
Lin, X., Liebscher, P., Marchionini, G.: Graphical representations of electronic search patterns. Orig.en. J.Amer.Soc.Inform.Sci. Vol 42, No 7, 1991. p.469-478, 34 refs.
The methodology descri ed in this article involves defining state spaces of user options within a system, capturing keystrokes or mouse moves as raw data, coding these data into the state spaces, and analyzing user moves through the state space as evidence of goal-directed information-seeking strate-

gies and patterns. A tool for displaying user moves through a state space has been developed and is described. The tool graphically represents data in a variety of formats, allowing human pattern recognition capabilities to be applied for data analysis. Graphs can be represented for individual searches or for multiple searches done by either a single searcher or by several searchers working on the same search task. (Author)

982 C & I User Requirements; Interfaces; Feedback
See also 1-338

1-535　　　　　　　　　　　　　　　　　　　　　982
Hancock-Beaulieu, M.: Evaluating the impact of an online library catalogue on subject searching behaviour at the catalogue and at the shelves. Orig.en. J.Doc. Vol 46, No 4, 1990. p.318-338, 25 refs.

1-536　　　　　　　　　　　　　　　　　　　　　982
Heidenreich,M.; Granzow,U.: Entwurf komfortabler Nutzerschnittstellen für dezentrale bibliographische und faktographische Datenbasen. (Designing comfortable user interfaces for decentralized bibliographic and factual databases) Orig.de. Informatik Vol 36, No 6, 1989. p.207-210, 220-222

1-537　　　　　　　　　　　　　　　　　　　　　982
Larson, R. R.: The decline of subject searching: long-term trends and patterns of index use in an online catalog. J.Amer. Soc.Inform.Sci. Vol 42, No 3, 1991. p.197-215, 50 refs. Search index usage in a large university online catalog system over a six-year period (representing about 15.3 million searches) was investigated using transaction monitor data. Mathematical models of trends and patterns in the data were developed and tested using regression techniques. The results of the analyses show a consistent decline in the frequency of subject index use by online catalog users, with a corresponding increase in the frequency of title keyword searching. Significant annual patterns in index usage were also identified. Analysis of the transaction data, and related previous studies of online catalog users, suggest a number of factors contri-

buting to the decline in subject search frequency. Chief among these factors are user difficulties in formulating subject queries with Library of Congress Subject Headings, leading to search failure, and the problem of "information overload" as database size increases. The article presents the models and results of the transaction log analysis, discusses the underlying problems with subject searching contributing to the observed decline and reviews some proposed improvements to online catalog systems to aid in overcoming the problems.
(Author)

1-538　　　　　　　　　　　　　　　　　　　　　982
Yee,M.M.: System design and cataloging meet the user: User interfaces to online public access catalogs. Orig.en. J.Amer.Soc.Inform.Sci. Vol 42, No 2, 1991. p.78-98, 208 refs.

1-539　　　　　　　　　　　　　　　　　　　982.218
Kasiviswanadham,S.: Thesaurus approach in profile construction Orig.en. Relisar Bull. Vol 6, No 2, 1990. p.39-53, 4 refs.

1-540　　　　　　　　　　　　　　　　　　　　　983
Jouguelet,S.: L'accès par sujets et le marché de l'information bibliographique en France. (Subject access and the market of bibliographic information in France) Orig.fr. Int.Cataloguing & Bibliographic Control Vol 19, No 2, 1990. p.29-32

1-541　　　　　　　　　　　　　　　　　　　　　984
Morris, L.R.: The frequency of use of Library of Congress Classification numbers and Dewey Decimal Classification numbers in the MARC file in the field of library science.Orig.en. Techn.Serv.Quarterly Vol 8, No 1, 1990. p.37-49, 4 refs.

1-542　　　　　　　　　　　　　　　　　　　　　985
Wilson, R.: The Bookshelf Thesaurus: treasure or trauma? Orig.en. Libr.Rev. Vol 40, No 6, 1991. p.42-49

1-543　　　　　　　　　　　　　　　　　　　　　989
Durovcik, St.: Analysis of the current state of the use of indexing languages in the unified system libraries. Orig.sk. Kniz.zb. 1988. p.13-29, 16 refs.

Personal Author Index