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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.

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

Language abbreviations:

| bg cs | Bulgarian Czech | fl fr | Finnish French | pl pt | Polish Portuguese |
|----------|--------------------|----------|-------------------|----------|----------------------|
| da | Danish | hu | Hungarlan | ro | Romanian |
| de | German | it | Italian | ru | Russian |
| ee | Estonian | ja | Japanese | sh | Serbo-Croatian |
| en | English | II | Lithuanian | sk | Slovaklan |
| es | Spanish | ni | Dutch | uk | Ukrainian |

^{**} Monographs on special topics at special subdivisions.

0 FORM DIVISIONS

01 Blbliographies

Les dictionnaries de terminologie linguistique: bibliographie systematique. (Dictionaries of linguistic terminology: Systematic bibliography) Orig.fr. Meta Vol 36, No 4, 1991. p.647-653, refs. (4p.)

Prossomeriti, M.: Bibliografia sull'indicizzazione 1988-1989

(Bibliography on indexing) Orig.it. Boll.Inform.Assoc.ltal. Bibl. Vol 31, No 1, 1991. p.39-57

The bibliography is based on scanning-the British National Bibliography (until April 1990) and LISA (until Sept.1990). It in in alphabetical order according to authors and has a subject index. subject index.

Ruda, S.: Abstracting - Eine Auswahlbibliographie. (Abstracting - a selective bibliography) Orig.de. Nachr.Dok. Vol 43, No.5 1992. p.283-292, 217 refs.

The selective bibliography is arranged according to nine subject fields, among which historical development of abstracting, guidelines, methods of text condensation, text structures, abstract writing, automatic and machine-supported abstracting, bibliographies.

02 Literature Reviews

4-004 Taylor, A.G.: Enhancing subject access in online systems: The year's work in subject analysis, 1991. •rig.en. Libr.Resources & Techn.Serv. Vol 36, No 3, 1992. p.316-332, 5 refs. Arrangement according to (1) users and subject searching, (2) subject access in online catalogs, (3) subject searching, (2) subject access in online catalogs, (3) subject cataloging and indexing, (4) information retrieval, (5) thesaurus and indexing approaches, (6) classification, (7) specialized subjects and naterials. Subject access in online systems has been found the focus of most research. Improvments in online systems are more promising than the perfection of subject analysis.

03 Dictionaries, Terminologies

4-005 032 Soper, M.E.; Osborne, L.N., Zweizig, D.L.: The Librarian's The-saurus. Chicago and London: Amer.Libr.Assoc., Eurospan 1990.

 $\overline{\text{XVI}}$, 164 p. This is no thesaurus at all but a systematically arranged kind of encyclopedia of some 370 concepts in modern library science including also technology (office, communications, security, mechanical data storage and retrieval, computers, transportation, patron-use equipment, miscellaneous). Elaborate entries with "encyclopedic" descriptions, sometimes longer than one page. Elaborate index (p.157-164).

4-006 036.387 Hesse, W.; Luft, A.L., Keutgen, H., Rombach, H.D.: Ein Begriffs-system für die Softwaretechnik. Vorschlag zur Terminologie, (A concept system für software technology. A tenninological proposal) Orig.de. Informatik-Spektrum Vol 7, 1984. p.200-213,

This concept systems has only now been brought to our attention. 143 concepts are defined by the Working Group on Concept determinations of the Subject Group "Software Engineering", (German Society for Computer Science, GI).

04 Classification Systems & Thesauri

041 General Library Classification Systems

041-de~71/2 Universitätsbibliothek Regensburg: Aufstellungssystematiken.
15. Wirtschaftswissenschaften (Q). 4.Auff. Stand: April 1992. (Shelving system for economics (Q). 4th ed.) Orig.de. Regensburg, DE: Universitätsbibliothek 1992. 175p.

4-008 041-de-12
Universitätsbibliothek Regensburg: Aufstellungssystematiken.
17,1 Mathematik (SA-SP). - 6.Aufl., Stand: Mai 1992. (Shelving system for mathamtics, (SA-SP), 6th ed., of May 1992. (Orig. de) Regensburg, DE: Universitätsbibliothek 1992. 53 p.

041-de-73 Universitätsbibliothek Regensburg: Aufstellungssystematiken. 24,2 Technik (ZG-ZS). 3.Aufl., Stand: Mai 1991. Orig.de. Regensburg, DE: Universitätsbibliothek 1991. 164p. 4-010 041-de-962 Universitätsbibliothek Regensburg: Aufstellungssystematlken. 11,1 Ethnologie (LA-LC). 4.Aufl., Stand: Nov.1991. (Shelving System for Ethnology (LA-LC). 4th ed.) Orig.de. Regenburg, DE: Universitätsbibliothek 1991, 19p.

Lehman,K.(Ed.): Klassifikation für Allgemeinbibliotheken, Tell Wissenschaftliche und Fachliteratur, Belletristik (KAB7E). Veränderte Hauptgruppen A-F und Veränderungen in weiteren Sachgruppen. (Classification System for General Libraries) Orig.de. Berlin, DE, Zentralinstitut für Bibliothekswesen. Deutsches Bibliotheksinstitut. 77p. Revised version, finished Dec.1991, having been requested by the users of the KAB.

041.8-de~92 Lehman, K., Pohlenz, K. (Eds.); Bertz, U., Weigert, K. (Conps.): Klassifikation für Allgemeinbibliotheken, Veränderte Hauptgruppen A-F. Register. (Classification System for General Libraries. Index to the changed main groupings) Orig.de. Berlin, DE: Zentralinstitut für Bibliothekswesen; Dt.Bibliotheksinstitut 1991/92, 30p.

4-013 Lehmann, K.; Pohlenz, K. (Eds.): Klassifikation für Allgeneinbibliotheken – Teil Wissenschaftliche und Fachliteratur. Belletristik (KAB/E). Alphabetisches Schlagwortregister. Nachtrag 2. (Classification System for General Libraries. Belles Lettres. Alphabetical subject index. Supplement 2) Orig.de. Berlin, DE: Deutsches Bibliotheksinstitut 1992, 65p.
The first supplement had been added 1991 and is Included in

this second supplement which contains about 1900 concepts and references. In most cases these are new subject headings resulting from subject analysis work in libraries and the EKZ (book purchasing center). This supplement may help in introducing into and use of the changed subject groups.

Ergänzungen zum alphabetischen Schlagwortregister der KAB/E. [Supplements to the alphabetical subject index of the Classification System for General Libraries (KAB)) Orig.de. Bibliotheksinfo Vol 1, No 3, 4, 1991. p.174-178; p.251-254
This is the reference to the first supplement, mentioned above (in 4-013).

045 Bliss Bibliographic Classification

Bell, K.; Mills, J. (Eds.): Bliss Bibliographic Classification. Class A/AL: Philosophy and Logic. 2nd ed. Orig.en. London, etc.: Bowker-Saur 1991. XLVIII,56p. The second edition was accouplished with the assistance of C. Nei Ison.

048.1 Other General Classification Systems

Union of International Associations: Yearbook of International Organizations, Vol.3: Classified Subject Volume, Global Action Networks, Classified Directory by Subject and Region, 10th ed, Orig.en, ca 1,700p. München, DE: K.G. Saur Verl. 1992 ISBN 3-598-22215-7

ISBN 3-598-22215-7
The new edition lists entries in (1) a single alphabetical sequence according to subject headings, (2) according to geographical entities (countries) where each sequence has been subdivided into fields of interest and in main subject fields, and (3) according to fonn of organizations. There is a nain index to the entire Yearbook. The classification scheme used facilitates understanding of the relationships between the parts of the different organizations. In order to show the connection between international organizations and "World Problems" (Which is a separate work of the UAI), the subject heading lists are supplemented with references to parallel problems. problems.

048- Special Classification Systems and Thesauri

International Atomic Energy Agency: INIS Thesaurus. Orig.en. Vienna, AT: Int.Atomic Energy Agency 1992. XI,880p.+34p., IAEA-INIS-13(Rev.31)

Kibus, R. (Comp.); Deutsches Kunststoffinstitut: Thesaurus "Kunststoffe, Kautschuk, Fasern". (Thesaurus for Plastics, Rubber and Fibers) Orig, de, en. Darmstadt, DE: Deutsches Kunststoff-Institut 1992. 170p., DM 350.-Updated and elarged edition, now couprising some 2500 concepts. Contains a great number of synonyms and the English translations of descriptors. The main arrangement is in alphabetical order. In addition, an English version of this thesaurus has been published, see the next entry.

048-387 Kibus, R. (Comp.); Deutsches Kunststoff-institut: Thesaurus Plastics, Rubber, and Fibers. Orlg.en. Dannstadt,DE: Deutsches Kunststoff-Institut 1992. 122p. (See entry under 4-018)

Schenker,R. (Comp.); IUFRO-Project Group: Forest Decimal Classification - Forstliche Dezimalklassifikation - Classification Decimale Forestiere: trilingual short version. Orig.en.de.fr. Vienna, AT: 1UFRO 1990. 147p., 4 app., IUFRO World Series, 2

4-021
4-021
Fornes Garcia, A.: Erfahrungen mit den Rubrikator Medizin und Gesundheitswesen sowie Vorschläge zu dessen Spezifizierung und Erweiterung in einer gerichtsmedizinischen Fachbibliothek. (Experiences with the Rubricator System for Medicine and Health Sciences as well as proposals for its specialization and enlargement in a special library for forensic medicine) Orig.de. Leipzig, DE: College for Library Science. Thesis 1991. 36p. Elaboration of a descriptor list for the subfield of "non-natural death by outward influences" pertaining to forensic medicine.

048-56 Genf Bureau Internationale d'Education, UNESCO: Thésaurus de l'éducation UNESCO: BIE. 5.ém. revisée et augn. (Education Thesaurus of UNESCO, 5th ed.) Orig.fr,en,es. Paris, FR: UNESCO 1990. XII,137p.

4-023 048 - 6Broxis, P.F. et al (Ed.): ASSIA thesaurus 1991. Orig.en.
London, CB: Bowker-Saur 1997, ISBN 1-85739-086-6
Thesaurus for the Applied Social Sciences Index and Abstracts. It is meant for use with the printed, online or OB-ROM ver-

4-024 048~62 Stahnke,K.-H.; Bürgerschaft der Freien und Hansestadt Hamburg: Arwenderthesaurus der Parlamentskundlichen Fachbibliothek.
Teif 1: Alphabetisches Sachregister. (Thesaurus for Application in the Library of Parliamentary Affairs. Pt.1: Alphabetical Subject Index) Orig.de. Hamburg, DE: Bürgerschaft der Freien und Hansestadt Hamburg 1991. 103p.

Bibliothèque de la Commission des Communautés Européennes: Thesaurus ECLAS. Parties 1, 2 and 3: Présentation alphabétique, permutée, thématique. Orig.fr. Lixentourg: Comm.des Communautés Européennes 1991. 280+544+302p.

Aitchison, J. (Comp.): International Thesaurus for Refugee Terminology, Orig.en. The Hague, NL: Martinus Nijhoff 1989, TSBN 0-7923-0504-3

10-7923-0504-3 Contains a systematic, and an alphabetical display, a KMOC incontains a systematic, and an alphabetical display, a KMOC index, a French/English/Spanish index and a Spanish/English/French index. The thesaurus is available in English, French and Spanish. Has been published under the auspices of the international Refugee Documentation Network.

048-71/72 International Committee for Social Science Information and Do-cumentation: Thematic list of descriptors in economics -liste thematique des descripteurs science economique. Orig. en, fr. London-New York; Routledge 1989. 495p.

4-028
Association Portugaise pour le Développement de l'Information Scientifique et Technique: Thésaurus d'informatique, 2 parties Pt.1. (Thesaurus computer science). Orig.pt. Lisboa,PT: INCITE (Apartado 2410, 1111 Lisboa Codex) 1992.
The thesaurus contains also a dictionary English-Portuguese. It covers the objects, the communication of data, and the organization and handling of data. This is part 1. Pt. two is to appear at the end of 1992.

Friedrich, R. (Comp.); Deutsches BibliotheksInstitut: Systematiken für Öffentliche Musikbibliotheken 3. vollst. überarb. Aufl. (Classification system for public music libraries, 3rd rev.ed) Orig.de. Berlin,DE: Deutsches Bibliotheksinstitut 1991. 251p. Contains a classification system for literature on music and musical documents: (SWM-1991.

05 Periodicals and Serials

Vardani, M. (Ed.): Artificial Intelligence Review.
An International Survey and Tutorial Journal. Orig. en.
Vol 6, No 1. Dordrecht, NL: Kluwer Academic Publ. 1992. 123p.
This issue is devoted to Case-Based Reasoning. J.L.Kolomer gives an introduction into this subject-field. Further articles are by and on: B. Chaib-Draa, B. Moulin, R. Mandlau, P.

Millot: Trends in distributed artificial Intelligence. - Zlatereva, N.P.: Truth maintenance systems and their application for verlfying expert system knowledge bases. The Issue contains also 7 book reviews, viz. on Deville, Y.: Logic programming - systematic program development (by Tony Dodd). - Robertson, D. et al: Eco Logic (by T.Dodd). - Banerji, R.B.(Ed.) Formal techniques in artificial intelligence (by L.Bolc). - Neapolitan, R.E.: Probabilistic reasoning in expert systems: Theory and algorithms (by D.Saunders). - Hiciman, F.R. et al: Analysis for knowledge-based systems: A practical guide to the KADS methodology (by D.Sanders). - Mirzai, A.R. (Ed.): Artificial intelligence: Concepts and applications (by D.Partridge). Boden, M.A.: The creative minde, myths, and mechanisms (by B. Boden, M.A.: The creative minde, myths, and mechanisms (by B.

4-031 Usb.//
Wheim, I.; Kratzer, A. (Eds.): Natural Language Semantics. An International Journal of Semantics and its Interfaces in Grammar. Orig.en. Vol 1, No I. Dordrecht, NL: Kluwer Academic Publishers 1992. 121p.

The publication programme foresees 3 issues per year. Micro-vilm and microfiche editions of this journal are available from University Microfilm International, 300 North Zeeb Road, Ann Arbor, MI, 48106, USA. The first issue contains the following articles: F.Landman: The progressive (p.1-32); M.C.Baker: Unmatched chains and the representation of plural pronouns (p.33-74); M.Rooth: A theory of focus interpretation (p.75-116).

Journal of Information Networking. Orig.en. Vol 1, No 1. London, OB: Taylor Graham 1992; 3/ann. The journal was announced to be concerned with developments in the following subjects: Information infrastructure; Teaching; Research; Communication and publishing; Applications architecture; Network infrastructure: policy and practice; Funding, costing and charging; Organizational change, user support, training; and Toward Cyberspace.

06 Conference Reports, Proceedings

See also 4-298

4-033 06.90-03-14; 272 Wessel, H.-P.: UB Trier - Kolloquium "Kooperative Pflege der Schlagwortnonmdatel" am 14.Marz 1990 in Trier. (Colloquy on Cooperative Maintenance of the Standard Subject Heading Flie on March 14, 1990, Trier, University Library) Orig.de. Ticker, No 1, 1990. p.18-20

Gives short summaries of the 4 papers (by Keim, Schubert, Stumpf/Geisselmann, and Stephan). The significance of the quality factor was emphasized in the discussion repeatedly.

Lancaster, F.W.; Smith, L.C.: Artificial Intelligence and Expert Systems. Will they Change the Library? Papers presented at the 1990 Clinic on Library Applications of Data Processing, March 25-27, 1990. Orig.en. Urbana, IL: Illinois Univ. at Urbana-Champaign, Graduate School of Library and Information Science

1992. 291p.
The 27th Annual Clinic was designed to correct some of the misconceptions of Al and ES by presenting a balanced picture of present and potential capabilities of Al and ES. The papers presented deal with these capabilities as they relate to a wide range of library applications: descriptive cataloguing, technical services, collection development, subject indexing, reference services, database searching, and document delivery. Other papers deal with the underlying design issues of knowledge representation and natural language processing. (Author)

Gupta, S.R.: Book review of Czap, H., Nedobity, W. (Eds.): TKE 90: Terminology and Knowledge Engineering, Frankfurt: INDEXS Verlag 1990. 682p. Orig.en. Int. Inform., Communic.& Educ. (INICAE) Vol 11, No 1, 1992. p.134-135

4-036

Welnberg, B.H. (Ed.): Cataloging Heresy: Challenging the Standard Bibliographic Product, Proceedings of the Congress for Librarians, Feb. 18, 1991. St. John's University, Jamaica, NY with additional contributed papers. Orig.en. Medford, NJ: Learned Inform., Inc. 1992. XII,217p., ISBN 0-938734-60-1 After an introduction of the Congress Chair, Emmet Corry and one by B.H.Weinberg on the Congress Theme, the papers are listed in two Parts: Pt.1 Invited papers (4-037-046) with conclusing remarks by B.H.Weinberg; Pt.2: Contributed Papers, both parts accompanied with an Editor's Note. The index has been prepared by Edward Swanson.
4-037 Weinberg, B.H.: A theory of relativity for catalogers.

been prepared by Edward Swanson.

4-037 Weinberg, B.H.: A theory of relativity for catalogers.

4-037 Anderson, N.: The non-neutrality of descriptive cataloging. - 4-039 Bennan, S.: Cataloging tools and "copy": The myth of acceptability - A public librarlan's viewpoint. - 4-040 Sinn, S.: The development of classification and subject heading systems for medicine. - 4-041 Whitehead, C.: The Art & Architecture Thesaurus as an alternative to LCSH. - 4-042

Parr, M.: Standard cataloging data and the academic library: The technical services manager's point of view. 4-043 Bishoff, L.; Patton, G.: Master bibliographic record vs. Tocal bibliographic record - who needs what?: An OCLC perspective. - 4-044 Glazier, E.: The display and Indexing of customized catalog records in RLIN. - 4-045 Byrun, J.: Standard cataloging data: The view from the Library of Congress. - 4-046 Intner, Sh.: Rejecting standard cataloging copy: Implications for the education of catalogers. - 4-047 Elliott, P.; Bakke, C.: Special collections and cataloging standards: Issues and compromises at the Steinbeck Research Center and the Center for Beethoven Studies. - 4-048 Whitlow, Ch.: Musical sound recordings: Subject retrieval, analysis and access in Online Public Access Catalogs. - 4-049 Olson, H.: Subject access to women's studies materials. - 4-050 Kim, Sook-Hyun: Volume/date designation and serials holdings. - 4-051 Armintor, B.: "Marrying" college catalog data with the Tibrary's online catalog: Enhancing access to nonprint materials at Pikes Peak Community College. - 4-052 Lai, PohChin; Wong, Ming-Kan: Problems in the cataloging of digital cartographic databases. - 4-053 Thomas, A.R.: Options in the arrangement of library materials and the new edition of the Bliss Bibliographic Classification. -

06.91-03-12/13; 42.82 Buch, G.: Tagung zur DK-Arwendung in Bibliotheken und Dokumentationsstellen (Meeting on UDC-Application in Libraries and Cocumentation Centers). Orig.de. Mitt. Univ.-Bibl. Jena Vol.1, No.3, 1991. p.8-9 Report on a meeting on 12-13 March 1991 at the University Library of Chemitz with discussions on the possible further use of the UBC after the Gemen Institute for Standardization had given up its services in this regard (publication and committee that the comm

06.91-06-24/28 4-055
Williamson,N.J.; Hudon, M. (Eds.): Classification Research for Knowledge Representation and Organization, Proceedings 5th International Study Conference on Classification Research, Toronto, Canada, June 24-28, 1991. Orig.en. Ansterdam, etc.: Elsevier 1992. XII,427p., FID 698
Arrangement of the 40 papers in alphabetical sequence of the authors in two parts: Plenary Sessions, Contributed Papers. The volume ends with a conference summary and conclusions, a list of participants and a short subject index

The volume ends with a conference summary and conclusions, a list of participants and a short subject index. 4-056 Svenonius, E.: Classification: Prospects, Problems, and Possibilities. - 4-057 Beall, J.: Editing the Dewey Decimal Classification Online: The evolution of the DDC Database. 4-058 Beghtol, C.: Toward a theory of fiction analysis for information storage and retrieval. - 4-059 Craven, T.C.: Concept relation structures and their graphic display. - 4-060 Fugmann, R.: Illusory goals in information science research. - 4-061 Cilchrist, A.: UDC: The 1990's and beyond. - 4-062 Green, R.: The expression of syntagmatic relationships in indexing: Are frame-based index languages the answer? - 4-063 Humphrey, S.M.: Use and management of classification systems for knowledge-based indexing. - 4-064 Miksa, F.L.: The concept of the uni-Use and management of classification systems for knowledge-based indexing. - 4-064 Miksa, F.L.: The concept of the universe of knowledge and the purpose of LIS classification. - 4-065 Scott, M.; Fonseca, A.F.: Methodology for functional appraisal of records and creation of a functional thesaurus. - 4-066 Albrechtsen, H.: PRESS: A thesaurus-based information system for software reuse. - 4-067 Amaeshi, B.: A preliminary AAT compatible African Art Thesaurus. - 4-068 Chatterjee, A.: Structures of Indian classification systems of the pre-Ranganathan era and their impact on the Colon Classification. - 4-069 Cocheane. P.A.: Impact on the Colon Classification. 4-069 Cochrane, P.A.: Indexing and searching thesauri, the Janus or Proteus of information retrieval. - 4-070 Craven, T.C.: A general versus a special algorithm in the graphic display of thesauri. - 4-071 Dahlberg, J.: The basis of a new universal classification system seen from a philosophy of science point of view. - 4-072 Drabenstott, K.M.; Riester, L.C., Dede, B.A.: Shelflisting using expert systems. - 4-073 Fidel, R.: Thesaurus requirements for an intermediary expert system. - 4-074 Green, R.: Insights into classification from the cognitive sciences: Ramifications for index languages. - 4-075 Grolier, E.de: Towards a syndetic information retrieval system. - 4-076 Guenther, R.: The USMARC Format for classification data: Development and implementation. - 4-077 Howarth, L.C.: Factors influencing policies for the adoption and integration of revisions to classification schedules. - 4-078 Hudon, M.: Tenn definitions in subject thesauri: the Canadian Literacy thesaurus experience. - 4-079 Husain, Sh.: Notational techniques for the accommodation of subjects in Colon Classification 7th edition: Theoretical possibility vis-à-vis practical need. - 4-080 Kwasnik, B.H.; Jorgensen, C.: The exploration by means of repertory grids of semantic differences among names of official documents. - 4-081 Micco, M.: Suggestions for automating the Library of Congress Classification schedules. - 4-082 Perreault, J.M.: An essay on the prehistory of general categories (11): G.W.Leibniz, Connad Gesner. - 4-083 Rees-Potter, L.K.: How well do thesauri serve the social sciences? - 4-084 Revie, C.W.; Smart, G.: The construction and use of faceted classification schema in technical domains. - 4-085 Rockmore, M.: Structuring a flexible faceted thesaurus record for corporate information retrieval. - 4-086 Roulin, C.: Sub-thesauri as part of a metathesaurus. - 4-087 Smith, L.C.: UNISIST revisitnus or Proteus of Information retrieval. - 4-070 Craven, T.C.:

ed: Compatibility in the context of collaboratories. ~ 4-088 ed: Compatibility in the context of collaboratories. ~ 4-088 Stiles, W.G.: Notes concerning the use of chain indexing as a possible means of simulating the inductive leap within artificial intelligence. - 4-089 Svenonius, E.; Liu, S., Subrahmanyam, B.: Automation of chain indexing. - 4-090 Turner, J.: Structure in data in the stockshot database at the National Film Board of Canada. - 4-091 Vizine-Goetz, D.: The Dewey Decimal Classification as a online classification tool. - 4-092 cimal Classification as a online classification tool, - 4-092 Williamson, N.J.: Restructuring UDC: Problems and possibilities. - 4-093 Wilson, A.: The hierarchy of belief: Ideological tendentiousness in universal classification. - 4-095 Wilson, B.F.: An evaluation of the systematic botany schedule of the Universal Decimal Classification (English Full Edition, 1979). 4-095 Zeng, L.: Research and development of classification and thesauri in Chies thesauri in China.

06.91-08-19 McGarry, D.: IFLA Section Activities at Moscow Conference 1991 Orig.en. Int.Classif. Vol 19, No 3, 1992. p.146-147

Conference on Knowledge Organization and Tenm Analysis. Papers and Summaries of KOTA'91, Varna, Sept.16-18, 1991. Orig. en. Int.Classif. Vol 19, No 2, 1992. p.65-100
The issue contains the two plenary session papers and summaries of the contributed ones, arranged in a systematic order.

06.92-04-30, -07-02 U.K.: CRG Meetings 286 and 287. Orig. en. Int.Classif. Vol 19, No 3, 1992. p.165

06.92-05-29 Ranganathan Jubilee Meeting in Moscow. Orig.en. Int.Classif. Vol 19, No 3, 1992. p.159

TAWA'92: 2nd TermNet Symposium: Terminology Applications and Microcomputers, Avignon, 5-6 June 1992. Orig.en. Int.Classif. Vol 19, No 3, 1992. p.148

06.92-06-21/24 4-101
Belin,N.; Ingwersen,P., Pejtersen, A.M. (Eds.): SIGIR'92: Proceedings of the 15th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval. Orig. en. SIGIR Forum, 1992, Special Issue, 353p.

on Research and Development in Information Retrieval. Orig.en. SICIR Forum, 1992, Special Issue, 353p.

The Conference was organized by the Royal School of Librarianship in Copenhagen and was held in cooperation with AICA-GLIR (Italy), BCS-IRSG (UK), DD (Denmark), GI (Germany), INRIA (France). It had support from Apple Computer, Denmark. The volume contains the 32 papers and Reports on the two panel sessions, moderated by W.B.Croft, and R.Krovetz, respectively. It ends with an Author Index.

4-102 Haman, D.: Relevance feedback revisited. - 4-103 Aalbersberg, I.J.: Incremental relevance feedback. - 4-104 Tague-Sutcliffe, J.: Measuring the informativeness of a retrieval process. - 4-105 Lewis, D.D.: An evaluation of phrasal and clustered representations on a text categorization task. - 4-106 Blosseville,M.J.; Hébrail, G., Monteil, M.G., Pénot, N.: Automatic document classification: Natural language processing, statistical analysis, and expert system techniques used together. - 4-107 Masand, B.; Linoff, G., Waltz, D.: Classifying news stories using memory based reasoning. - 4-108 Keen, E.M.: Term position ranking: Some new test results. - 4-109 Crouch, C.J.; Yang, B.: Experiments in automatic statistical thesaurus construction. - 4-110 Grefenstette, G.: Use of syntactic context to produce term association lists for text retrieval. - 4-111 Anick, P.G.; Flynn, R.A.: Versioning a full-text information retrieval system. - 4-112 Burkowski, F.J.: Retrieval activities in a database consisting of heterogeneous collections. - 4-113 Deerwester, S.C.; Waclena, K., LaMar, M.: A textual object menagement system. - 4-114 Nie, J.-Y.: Towards a probabilistic modal logic for semantic-based information retrieval. - 4-115 Wang, A.W.; Wong, S.K.M., Yao, Y.Y.: An analysis of vector space models based on computational geometry, 4-116 Bartell, B.T.; Cottrell, G.W., Belew, R.K.: Latent semantic indexing is an optimal special case of multidimensional scalysis or vector space models based on computational geometry, 4-116 Bartell,B.T.; Cottrell,G.W., Belew,R.K.: Latent semantic inmiexing is an optimal special case of multidimensional scaling. – 4-117 Glavitsch,U.; Schäuble, P.: A system for retrieving speech documents. – 4-118 Margulis,E.L.: N-Poisson-Document Modelling. – 4-119 Hess, M.: An incrementally extensible documents. ment retrieval system based on lingustics and logical principles. 4-120 Cooper, W.S.; Gey, F.C., Dabney, D.P.: Probabilistic retrieval based on staged logistic regression. - 4-121 Fuhr, N.: Integration of probabilistic fact and text retrieval. 4-122 Croft, B.; Smith, L.A., Turtle, H.: A lossely-coupled integration of a text retrieval system and an object-oriented database system. - 4-123 Dumais, S.T.; Nielsen, J.: Automating the assignment of submitted manuscripts to reviewers. - 4-124 Cost, M.A.; Masotti, M.: Design of an OPAC database to permit Gost, M.A.; Masotti, M.: Design of an OPAC database to permit differnt subject searching accesses. 4-125 Robertson, A.M.; Willett, P.: Searching for historical word-forms in a database of 17th-century English text using spelling correction methods. 4-126 Fax,E.A.; Onen,Q.F., Heath,L.S.: A faster algorithm for constructing minimal perfect hash functions. -4-127 Moffat, A.; Zobel, J.: Parameterised compression for sparse bitmaps. 4-128 Grandi, F.; Tiberio, P., Zezula, P.: Frame-sliced parameterised compression for sparse bitmaps.

titioned parallel signature files. - 4-129 Cognitive differences in end user searching of a CD-RCM index. - 4-130 Sonnerwald, D.H.: Developing a theory to guide the process of designing information retrieval systems. - 4-131 Cutting, D.R.; Pedersen, J.O., Karger, D., Tukey, J.W.: Scatter/Gather: A cluster-based approach to browsing large document collections. 4-132 Chalmers,M.; Chitson, P.: Bead: Explorations in information visualization. - 4-133 Williamson, Ch.; Shneiderman, B.: The dynamic HomeFinder: Evaluating dynamic queries in a realestate information exploration system.

4-134 06.92-08-26/28
Dahlberg, I.: 2nd International ISKO Conference, Madras, Aug. 26-28, 1992. Orig.en. Int. Class IT. 19(1992)No 3, p.159-161
Report on surprises this conference held for participants.

4-135
06.92-09-02
Williamson, N.: IFLA Section on Classification and Indexing.
Orig.en. Int.ClassIT. Vol 19, No 3, 1992. p.163-164
Report on the papers of the meeting of this Section during the
IFLA Conference at New Delhi, Aug.29-Sept.5, 1992 and on some further activities.

08 Other Monographs

Henzler, R.G.: Information and Dokumentation: Sammeln, Speichern und Wiedergewinnen von Fachtnformation in Datenbanken.

(Information and Documentation: Collection, Storing and Retrieving Specialized Information in Databases) Orig.de. Berlin etc.: Springer 1992, 322p., 155 refs., ISBN 3-540-55703-2. The volume contains some chapters of interest here, viz. (3) on storage media and classification, (6) on organization of the online-retrieval, and (8) on retrieval-software, languages and strategies.

U_I-137 08.3
Boyce, B.R.: Book review of Lancaster, F.W.: Indexing and abstracting in theory and practice. Champaign, IL: Graduate School of Library and Information Science, University of Illinois 1991 328p. Orig.en. J.Amer.Soc.Inform.Sci. Vol. 43, No. 6, 1992 p.456

4-138

Rasmussen, E.M.: Book review of Lancaster, F.W.: Indexing and abstracting in theory and practice. Champaign, IL: Graduate School of Library and Information Science, University of Tilinois 1991. 328p. Orig.en. Cat. & Classif.Quart. Vol 15, No 1, 1992. p.85-87

Milstead, J.L.: Book review of Wellisch, H.H.: Indexing from A to Z. New York: H.W.Wison 1991. XXVI, 46fp. Orig.en. Libr.Quart. Vol 62, No 2, 1992. p.245-247

4-140

Ridel, R.: Book review of Chamis, A.Y.: Vocabulary control and search strategies in online searching. Westport, Conn.: Greenwood Press 1991, XV,121p. Orig.en. Libr.Quart. Vol 62, No 3, 1992, p.347-349

09 Standards, Guidelines

4-141

Og.33

Sukiasyan, E.R.: Indexing of documents. Ceneral requirements for classifying and subject indexing. Orig.ru. Moskva, Russian State Library. Dept. for Systematic and Subject Cata-

loguing 1991. 61p.
This booklet contains an explanation of the USSR COST Standart 7.59-90 and gives directions and a commentary for Librarians.

4-142
09.33; 812
Ceisselmann, F.; Bellgardt, S., Kelm, B.: Praxisregeln zu den Regeln für den Schlagwortkatatog (RSMK) und der Schlagwortnomdatel (SWD). (Practice rules to the rules for the Subject Catalogue (RSMK) and the Standard Subject File (SWD)) Orig. de. Frankfurt/Main: Deutsche Bibliothek 1992, ISBN 3-922051-37-5
The new rules are introduced in an article by F. Wende in Dialog Bibl. 4(1992)No.3, p.10-12

4-143 09.365 Regeln für die Signaturvergabe. (Rules for call number application, 5th ed.) Orig.de. Regensburg, DE: Universitätsbibliothek 1992, 52p.

4-144 09.812
Kelm, B. (Ed.); Kommission des Deutschen BibliotheksInstituts für Sacherschließung, Arbeitsgruppe RSWK-Musik: Regeln für den Schlagwortkatalog: RSWK; Musikallen und Musiktonträger; Entwurf. (Rules for the Subject Heading Catalogue (RSWK) Music and Music Data Carriers;) Orig.de. Berlin, Deutsches Bibliotheksinstitut 1991. 27p.

1 THEORETICAL FOUNDATIONS

11 Order and Classification

See also 4-064

4-1415

Malla, N.: Classification of knowledge: a study in the foundation of library science. Urig.en. Uranthana: Indian J.Libr. Studies Vol 2, No 2, 1991. p.163-168

Attempts to present a logical analysis of the concept of classification with special reference to library science. (Author)

117 Object-Oriented Database Management

See also 4-361

4-146
Higa,K.; Morrison,M., Morrison,J., Sheng,O.R.L.: Object-oriented methodology for knowledge base/database coupling. Orig.en. Communicat.ACM Vol 35, No 6, 1992. p.99-113, 50 refs.

Jose, J.M.; Viswanathan, T.: Object-oriented database management systems - a new tool for information centers.

Annais Libr.Sci. & Doc. Vol. 39, No. 3, 1992. p.74-80, 4 refs.
Object-Oriented Database Management Systems (OCDBWS) are a recent development in the field of database systems. The relational model of data presents a tabular view of the world. It assumes that every entity has a fixed number of descriptive attributes and the values of these may be presented in a tabular form. A document, may however, be composed of pictures, graphs, text, etc. To handle these, a database should support complex extensible objects. The adoption and use of OCDBWS will increase the capabilities and efficiency of an information center as they eliminate the disadvantages of the classical DBWS.

(Author, amended)

The Object-Oriented Database Task Group. Orig.en. Computer Standards and Interfaces Vol 13, No 1-3, (Special issue) 1991.

The special issue is devoted to COCDBMS and contains the following 37 papers with an editorial by J.L. Berg and a guest editorial by C.Thompson.

editorial by C.Thompson.

4-149 Berg, J.L.: Object-Oriented Database Systems Task Group (Editorial). - 4-150 Thompson, C.: Object-oriented database management system standards. - 4-151 Mindrews, T.: Plan and organization for Object-Oriented Database Task Group (OOBTO). - 4-153 Otis, A.: A reference model for object data management. - 4-153 Mindrews, T.: Plan and organization for Object-Oriented Database Task Group (OOBTO). - 4-153 Otis, A.: A reference model for object data management. - 4-153 Mindrews, T. Standards, T. Standards, C. Standard

12 Conceptology in Classification

Leichik, V.M.; Shelov, S.D.: Commensurability of scientific theories and analysis of terminological definitions. Orig.ru, transl.into en. Nauchno-tekhn.inform., Ser. 2 Vol 25, No 8, 1991 p.9-15, 31 refs.

Definitions of scientific concepts in terminological dictiona-ries and science texts are discussed. In particular, nonrigid definitions on fuzzy semantics of natural language units are considered. They pennit the variability of interpretation and are affected by underlying theories. (Authors)

4-189

Chisholm,R.M.: An intentional explication of universals, Orig. en. Conceptus Vol 26, No 66, 1992, 1 ref.

The tenn 'universal' is here taken to mean the same as 'attrubute' or 'property'. It is contended here that attributes should be understood both intensionally and intentionally. The nature of an attribute lies in the fact that it is an ens rationis - the kind of entity that can be grasped and made the content of thinking and believing.

(Author, abbr.)

Unstätter, W.: Die Skalierung von Information, Wissen und Li-teratur. (The scaling of Information, knowledge, and [[tera-ture] Origide. Nachr.Dok. Vol 43, No 4, 1992. p.227-237, 241-242, 36 refs.

Explains the relationship between the three topical concepts.

13 Mathematics in Classification

Kurikalov,Y.L.: Classification as a type of semiotic modelling Orig.ru. Nauchno-tekhn.infonn.,Ser.2, No 11, 1991. p.1-5,

Examines the classification process from the point of view of modelling principles. Establishes that natural classification systems represent a characteristic type of semiotic models. The connection between classification and modelling, conceptually described, should help to develop a theory of semiotic management in complex systems. (Author)

Solov'eva,E.A.: Matheratical modelling of the cognition system and a method for developing a natural classification system together with its criteria. Originu, translinto en Nauchno-

tekhn.inform., Ser.2 Vol 25, No 4, 1991. p.1-10, 51 refs.

14 Systems Theory in Classification

See also 4-032

4-193

Strickmuster der neuen elektronischen Intelligenz. (Knit-mo-dels of the new electronic intelligence) Orig.de, HighTech Vol 11, 1991, p.64-75
Introductory text into neural networks, the model of which is

the brain structure. As a sort of refined software simulation are neural networks learning devices which may well enlarge the boundaries of computer science. A flood of industrial applications is starting.

Fulcher, J.: Neural networks: Promise for the future? Orig.en. Future Generation Computer Systems Vol 6, No 4, 1990/91.

p.351-354, 18 refs.
The features of neural networks are examined. They are balanced against the lack of understanding about what is taking place within the neural network itself. What emerges is a set of sober conclusions concerning realistic expectations for the (Author)

Schünrenn, J., Kreßel, U.: Neuronale Netze in der Mustererken-nung: Multilayer-Perzeptron und Polynom-Klassifikator. (Neural networks in pattern recognition: Multilayer perceptron and po-lynom classifier). Orig.de. HMD. Handbuch d.Modernen Datenver-arbeitung, Vol.28, No.159, p.110-122, 12 refs.

15 Psychology and Classification

Batra, D.; Davis, J.G.: Conceptual data modelling in database design: Similarities and differences between expert and novice designers. Orig.en. Int.J.Man-Machine Studies Vol 37, No 1, 1992. p.83-101, 39 refs.

Exploration of the similarities and differences between experts and novices engaged in a conceptual data modelling task,

a critical part of overall database design, using data gathered in the form of think-aloud protocols. It was found that the experts focussed on generating a holistic understanding of the problem before developing the conceptual model. They were able problem before developing the conceptual model. They were able to categorize problem descriptions into standard abstractions. The novices tended to have more errors in their solutions due to their inability to integrate the various parts of the problem description and map them into appropriate knowledge structures. The study also found that the expert and novice behavior was similar in terms of modelling facets, like entity, identifier, descriptor and binary relationship, somewhat different in modelling ternary relationship, but quite different in the modelling of unary relationship and category. These findings are discussed. (Authors, abbr.)

156: 757

Ercegovac, Z.: A multiple-observation approach in knowledge acquisition for expert systems: A case study. Orig.en. J.Amer. Soc.inform.Sci. Vol 43, No 7, 1992. p.506-517, 45 refs. The article describes (1) the elicitation corponent of knowledge acquisition (KA) in the domain of cartographic cataloging of single-sheet maps produced by three U.S.nap-meking agencies and (2) the performance evaluation results that demonstrate the effectiveness of the elicitation method. A multiple-observation approach was used to elicit knowledge that human experts use when solving descriptive cataloging problems. The use of the elicitation techniques is discussed in view of problem identification goals and their applicability for this study. A body of published knowledge was integrated with a body of published knowledge was integrated with a body of elicited personal knowledge to form the knowledge base of an experimental cataloging advisor - Mapper. The study demonstrates that library students, who are map cataloging novices, can produce significantly better cataloging answers when assisted by the Mapper than can those who were not assisted by the weak the weak that the weak that the weak the weak ted by the Mapper. (Author, abbr.)

Vickery,A.: Book review of Scott,A.C., Clayton,J.E., Gibson,E. L.: A practical guide to knowledge acquisition. Reading, MA.: Addison-Wesley 1991. XV,509p. J.Doc. 48(1992)No 2, p.245-248 Gibson,E.

16 Development of Science and Classification

Oganyan, E.A.; Shreider, Yu.A.: Disciplinary structure of the humanities. Orig.ru, transl.Into en. Nauchno-tekhn.Infonn., Ser.2 Vol 25, No 7, 1991. p.1-8, 8 refs.
Discussion of the disciplinary structure of the humanities and

its reflection in classification systems and rubricators.

Fagin, R.; Halpern, J.Y., Vardi, M.Y.: What can nachines kn w? On the properties of knowledge in distributed systems. Orig.en.

J.Assoc.Comput.Machinery 39(1992)No 2, p.328-376, 27 refs.

Okko,M.: Ranganathan's models for the growth of knewledge and on the comprehensibility of borrowed concepts. Orig.fi. Kirjanstotlede ja informatikka Vol 11, No 2, 1992. p.53-60, 10 refs. Discusses Ranganathan's modes of tactics for the gr wth of kn wledge: Lamination, Loose-Assemblage, Denudation, and Dissection which he had borrowed from Geology and establishes a relationship of their geological meaning and their capacity to describe the tactical processes.

165: 751 Shreider, Yu.A.: The cognitive approach: A tool to resolve the opposition between technical and cultural aspects of knowledge Orig.en,ru. Int.Forum Inform. 8 Doc. Vol 17, No 2, 1992. p.3-6, 10 refs.

Also in: Gödert, W. et al: Kognitive Ansätze zum Ordnen und Darstellen von Wissen. 2.Tagung d.Dt.ISKO-Sektion, Weilburg, 15.-18.10.1991. Frankfurt: INDEXS Verlag 1992. p.24-30 Human knowledge can exist in two alternative forms: personal (mostly implicit) kn wledge (PK) and social knowledge (infor-

nation = SI). Direct interpersonal communication is described by the schene PK--SI--PK. Ten principles that underly bridging the gap between PK and SI are discussed. Indirect communication is connected with transferring symbolic texts like parables. (Author)

4-203

Waern,Y.; Hägglund,S., Löwgren,J., Rankin,I., Sokolnicki,T.:
Communication knowledge for knowledge communication. Orig.en.
Int.J.Man-Machine Studies 37(1992)No 2, p.215-239, 48 refs.
Three aspects of communication kn wledge are identified and research related to them presented. These are domain-related knowledge, discourse kn wledge and mediating knowledge. This frame of reference is applied in the context of knowledge acquisition, user interface management in knowledge systems, text generation in expert critiquing systems and tutoring systems. The implications of the proposed framework in terms of implemented systems are discussed and a future research agenda emanating from the analyses is suggested. (Authors, abor.)

17 Problems in Classification

See also 4-2417

4-204 Porter, L.: Quality assurance: going round in circles. Orig.en Aslib Inform. Vol 20, No 6, 1992. p.240-242

Stephiakowa, E.: Problems in subject cataloguing: Multiple description in the subject headings. Orig.pl.

Przeglad Biblioteczny Vol. 59, No. 2, 1991. p.157-166, 35 refs.

Overview of the Polish and selected foreign literature concerning the problems of multiple description in the subject headings language. Describes also the practice of the Library of Congress and the libraries of the former USSR in this field.

(Author)

4-206
Sandor, D.: From automatic classification to morphologies of a higher level. Origina. Könyvt. Figyelo Vol 37, 1991, p.418-22
Automatic classification can only be reliable if different algorithms lead to the same result. After a repeated classification procedure the filtered, solid excerpts may be looked at as morphologies of a higher level. Astronomy is used as a metapher for this: the factor-analytic observation space is the universe, which is entered by invisible wavelengths; the matter groups in it are the so far invisible galaxies. The conception of such forms or morphemes by analysis of knowledge fields, modelling of their evolution, and navigation among them are only some of interesting possibilities.

(Author, transi, and abbr.)

Jank, D.: Die Nicht-Gleichbehandlung von Frauen und Männern in der Schlagwortnommelatei - ein offener Brief. (The unequal treatment of women and men in the standard subject file - an open letter) Origide. Bibliotheksdienst Vol 25, No 9, 1991. p.1418-1421

This article fights for recognition of the female aspect to be included in cataloging and classification systems, here with special regard to the Standard Subject File (SMO) in Germany. The argument is documented in a number of examples.

The article raised two responses by D.Ahlhelm and F.Geißelmann in Bibliotheksdienst 25(1991)p.1805-1808; and by M.Heiner-Freiling in Bibliotheksdienst 25(1991)p.1808-1811. It found a "facit" by D.Jank in Laurentius 9(1992)No.1, p.56-59.

Duong-Vinh,G.: BN-Sycomore ou l'automatisation de la communi-cation et du récolement dans les départments des Libres Impri-més et des Pérfodiques. (BN-Sycomore or the automation of the communication of checking in the Department of Printed Books and Periodicals). Orig.fr. Bull.Inform.-Assoc.Bibi.France, No

Reminder of the history of the origin of the classification Reminder of the history of the origin of the classification system of the French National Library (BN) (the System of Nicolas Clément) is presented by the Project SYCOMORE of the BN as one of reconstitution and restitution of a national heritage. The article describes the project, the software of which has been elaborated by Alcatel TITN Answare). It should be operational in 1992.

H-209

Kuznetsov, S.O.: Complexity of learning and classification based on a search for set intersection. Orig.ru, transi.into en. Nauchno tekhn. Inform. Ser. 2 Vol 25, No 9, 1991. p.8-15

Algorithmic complexity of learning is studied in terms of a search for similarity of positive and negative examples of construction of a classification on the basis of learning-derived hypotheses. Descriptor language, i.e. representation of examples by sets, are discussed. Hypotheses are defined as intersections of positive examples which are not subsets of negative examples. We prove #P-completeness of the problem of gative examples. We prove #P-completeness of the problem of determination of the number of all minimal hypotheses. NP-comdetermination of the number of all minimal hypotheses, Mr-completeness, and polynomial solubility of certain problems of hypothesis generation with Ilmits on the size and number of supporting examples. Classification of examples on the basis of hypotheses in the general case is shown to be a difficult problem. Polynomial solubility of special important cases is proved. (Author)

179 Trends and Future Tasks in C&I

See also 4-328

Coetzee, H.S.: Cataloging and classification in the nineties. Orig.af. South African J.of Libr. & Inform.Sci. Vol 59, No 4, 1991. p.282-293, 45 refs.

The drastic changes regarding cataloging and classification have occurred worldwide. Technology, rising costs, increasing user demands will need still more drastic adjustments. The traditional division between technical and public services needs attention as well as further development of appropriate technology, cost-effectiveness of cataloging, staff requirements, image of the cataloger, a.o.

19 History of Classification

See also 4-082, 4-208

Künzel, W.; Cornelius, H.: Die Ars Ceneralis Ultima des Ray-mundus Lulius. Studien zu einem geheimen Ursprung der Compu-tertheorie. 5.bearb.u.erw.Aufl. (Studies on a secret source of computer theory. 5th enlarged ed.) Orig.de. Berlin,DE: Edition Olivia Künzel 1991. 170p.

2 STRUCTURE AND CONSTRUCTION OF CS & T

21 General questions of CS & T

213 Management of CS Includ. Computerization

Huws, H.; Wintrub, M., Martin, N.; Knowledge-based systems development: A methodology for management. Orig.en.
Inform.Systems Management Vol 9, No 3, 1992, p.51-56 The article provides a context for understanding the difficulties unique to a knowledge-based systems development project and describes one methodology that offers solutions to many of the management problems vonfronting the responsible for such development and implementation efforts. (Author)

Wereszczynska-Cisko, B.: Defining the descriptor language. Orig.pl. Zag.inform.Nauk. Vol 56, No 1, 1990. p.3-25, 4 refs.

Rousseau,R.: Use of an existing thesaurus in a knowledge based indexing and retrieva system. Orig.en. Annals of Libr.Sci. E Doc. Vol 38, No 4, 1991. p.127-130, 17 refs.

A simple heuristic method is proposed to use an existing the-

saurus for weighted indexing.

218 Sarvamangala, G.: Design and development of a database using OBS/ISIS: An analytico-synthetic classification approach.

Orig.en. Libr.Sci.slant Doc.Inf.Stud. Vol 27, No 3, 1990. p.173-182, 2 refs.

22 Elements of CS & T

See also 4-294

Browne, G.: Scope notes for LISA subject headings. Orig.en.
Online Review Vol 16, No 1, 1992. p.3-19, 17 refs.
Scope notes are added to some subject headings in thesauri to make their scope, meaning, usage, and history clearer. In the first edition of LiSA: Online User Manual, scope notes are used for seven message types and in one case fifteen note patterns are used to express the same meaning. In the second edition notes are expressed more consistently, and are mainly used to indicate indexing errors. Other thesauri are compared briefly. (Author)

4-217 222: 242 Ciganik, M.: From key words and phrases to relationally-systemized entity term. Orig.sk. Kn.ved.inform. Vol 22, No 6, 1990. p. 241-252, 11 refs.

23 Construction of CS & T

See also 4-084, 4-109

Wozniak, J.: Designing the information retrieval language as element of an information retrieval system. Orig.pl. Zag.inform.Nauk Vol 56, No 1, 1990. p.201-211

Kovacova, S.: An object-attribute language - one of the approaches to the construction of an information retrieval language for data-oriented information systems. Orig.sk. Kn.ved.Inform. Vol 23, No 3, 1991. p. 97-101, 6 refs.

Bielicka,L.A.; Sclbor, E.; Linguistic tools used in data bases. Orig.pl. Zag.Inform.Nauk 57(1990)No 2, p.109-145, 21 refs.

Gendina, N.I.: Linguistic support of the automated library system, Orig.ru. Alma-Ata, Kazakh. Rep.: Gilim 1991. 221p.
Textbook for library and information specialists and students. Contents: Information-retrieval language, structure and functions: Basic types of IRL; Indexing, types, principles, and quality control; Linguistics of automated library systems.

24 Relationships See also 4-059, 4-062, 4-217, 4-240

247 Prathwaite, K.S.: Relational databases: concepts, design, and administration. Origien. London: McGraw-Hill 1991. 294p., J. Rana de IBM Series, ISBN 0-07-007242-3 A textbook for the mini and mainframe computing professional.

Chapters are devoted to introduction; aspects such structure, design and retrieval concepts; languages such as ORACLE, SQL

MF and DB2; relational databases and older DBMS; data administration and technical support. Concludingly Relational DBMS are compared with each other. Selective bibliography.

Scherff, J.: Gewährleistung der semantischen Datenintegrität von relationalen Datenbanken. (Cuaranteeing semantic data Integrity of relational databases) Orig.de. HWD - Handbuch d. medernen Datenverarbeitung 29(1992)No 163, p.62-79, 12 refs.

25 Numerical Taxonomy

Kaganskii,V.L.: Classification, area separation and mapping of semantic spaces. Orig.ru. Nauchno-tekhn.inform.,Ser.2 Vol 25, No 3, 1991. p.1-8, 24 refs.

Faulon, J.-L.: On using graph-equivalent classes for the structure elucidation of large molecules. Orig.en.

J.Chem. Inform. Comput. Sci. Vol 32, 1992, p.338-348, 28 refs.

26 Notation, Codes

Jones, R.: The future of Braille access to math and scientific notation. Orig.en. EDXCOM Review. July/August (1992)p.48-49
Discusses alternatives to Braille for scientific usage.

Sosinska-Kalata, B.: <u>Motation systems in inforamtion retrieval</u> languages. An attempt at presenting the typology. Orig.pl. Zag.Inform.Nauk Vol 57, No 2, 1990. p.21-44, 12 refs.

4-230
Guenther, R.S.: The development and implementation of the USMARC format for classification data. Orig.en. Inform. Technol. E. Libraries Vol 11, No 2, 1992. p. 120-131, 12 refs.
The potential uses within an online system and the development as one of the USMARC standards is discussed. The paper presents a summary of the fields in the USMARC format for classification data and outlines its possible implementation. Currently an experiment is conducted at the Library of Congress to create USMARC classification records using a database for

to create USMARC classification records using a database for the classification of materials in the social sciences.

27 Revision, Updating, & Maintenance

See also 4-293, 4-294, 4-299, 4-300

28 Compatibility and Concordance

See also 4-087, 4-290

284: 487: 678 Creif, S.; SV - Gemeinnützige Gesellschaft für Wissenschaftsstatistik möhl im Stifterverband für die Deutsche Wissenschaft: Patente und Wirtschaftszweige: Zusammenführung der Internationalen Patentklassifikation und der Systematik der Wirtschaftszweige. (Patents and economic branches: Matching the International Patent Classification with the Classification System of the Economic Branches) Origine Köhn, etc.; Hegger 1909, Viller the Economic Branches) Orig.de. Köln, etc.: Heymann 1990. XII, 375p., ISBN 3-452-21706-X

375p., ISBN 3-452-21706-X
The book consists of two parts: Pt.1 describes the indicator function of patents according to areas, efficiency of the indicator, and foundation and application of it. Pt.2 is concerned with the mapping of the International Patent Classification with the Classification for Economic Branches (of the Federal Office for Statistics) with subchapters on the aims, the methodology, the results, and the possibilites for implementations and enlargements. Tables are given, appendices, and a bibliography. a bibliography.

Honeyman, J.P.: Vocabulary mapping of subject headings of medical and health-related government documents at the University of Massachusetts Medical Center Library. Orig.en. Reference Librarian Vol 32, 1991. p.279-245, 27 refs.

Description of a project in which the Massachusetts University Medical Centre Library is embarking. It will identify, integrate and map a subject-heading vocabulary of medical and health-related documents.

3 CLASSING AND INDEXING

31 Theory of Classing and Indexing

See also 4-036, 4-063, 4-116, 4-137-139

Laux, W.: Bibliothekarische und dokumentarische Sacherschliessung auf gemeinsamem Weg in die Zukunft? (Subject analysis for Tibrarians and documentalists together into the future? A documentalists point of view.) Orlg.de. Z.Bibl.wes.Bibliogr. 53 (1991), Special issue, p.141-147, 1 ref.

4-234 Jüngling, H.: Bibliothekarische und dokumentarische Sacherschtießung auf gemeinsamen Weg in die Zukunft? Aus bibliothekarischer Sicht. (Subject analysis for librarians and documentalists together into the future? A librarian's point of view) Orig, de. Z.Bibl.wes.u.Bibliogr. 53(1991), Special issue, p.148-169, 20 refs.

Chan, L.M.; Hodges, T.: Subject cataloguing and classification. The late 1980s and beyond. Orig.en. In: Corman, M. [Ed.]; Technical Services Today and Tomorrow. Englewood, CO: Libraries Unlimited 1990. p.74-85, 19 refs.

The chapter deals with methods of subject cataloging, subject analysis, and representation of library materials and outlines the practice of subject searching in Library catalogs after.

the practice of subject searching in library catalogs after the introduction of online catalogs. The vocabulary control methods in the Library of Congress Classification and LCSH are described and strategies for the use of these systems in on-line retrieval situations are outlined.

4-236 4-750 Todd, R.J.: Academic indexing: what's it all about? Orig.en. Indexer Vol 18, No 2, 1992, p.101-104, 19 refs. While the literature identifies some broad approaches to sub-ject analysis there is little supporting empirical evidence and few attempts to explicate any specifiable procedures. A productive step forward with indexing research would be to begin by examining how indexers actually undertake the process of subject analysis and to explore systematically factors that guide and influence this process. This would shed some light on a theory of subject analysis, clarify some of the central concepts of indexing, and provide an intelligent knowledgebase for effective, academic indexing practice. (Author)

Ménillet, D.: Grilles d'indexation et de préindexation: l'exemple de PASCAL. (Indexing and pre-indexing tables: the example of PASCAL) Orig.fr. Documentaliste Vol 29, No 4-5, 1992. p.183-190, 4 refs.

Some tools developed by INIST for use by indexers of its PASCAL databank. Indexing tables were created by broad subject area that make it possible to identify the concepts treated in the documents. For each area, pre-indexing tables were then prepared in which the relevant terms are presented in an organized and structured manner so that they can be transcribed into the appropriate information language. These tables should be a fundamental step in knowledge base development. (Author)

4-238 316; 391
Weinberg, B.H.; Cunningham, J.A.: Rates of assignment of the-

J.Doc. Vol 48, No 2, 1992. p.220-221, 5 refs.
On p.221 of this issue, this letter was answered by V.Diodato, the co-author of the paper in question (J.Doc. 47(1991)No.3, p.276-283) which gave rise to the 'surprise' of B.H.Weinberg.

Hutchinson, T.P.: Self-indexing, Orig.en, Indexer Vol 18, No 77, 1997. p.105-106, 4 refs. An author gives his reasons for doing the indexing of his books himself.

318; 117; 241; 753 Kemper, A.; Moerkotte, G.: Access support relations: An indexing method for object bases. Orig.en.
Information Systems Vol 17, No 2, 1992. p.117-145, 24 refs.
In this work 'access support relations' are introduced as a

means for optimizing query processing in object-oriented data-base systems. The general idea is to maintain separate struc-tures (dissociated from the object representation) to redun-dantly store those object references that are frequently traversed in database queries. The proposed access support relation technique is no longer restricted to relate on object (tuple) to an atomic value (attribute value) as in conventional indexing. Rather, access support relations relate objects with each other and can span over reference chains which may contain collection-valued components in order to support queries involving path expression, the best of which has to be determined according to the application-specific database usage profile. An analytical performance analysis of access support relations is developed. This analytical cost model

In particular, used to determine the best access support relation extension and decomposition with respect to specific database configuration and usage characteristics. (Authors)

32 Subject Analysis

See also 4-003, 4-218, 4-301

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, refs. The article suggests how future nodels of text storage and re-trieval can be informed by research on subject aspects of cog-nition; future designs may draw upon cognitive theories of ca-tegorization and metaphor to understand how users interact with text, both paper and electronic. The results from the study of 20 American historians imply the impertance of meta-phors for storage and retrieval of documents. (Author, abor.) phors for storage and retrieval of documents. (Author abbr.)

Manecke, M.; Manecke, H.-J.: Erschließung und Strukturierung von Informationen aus unterschiedlichen Quellen, Beispiel: Buchhistorische Quellen, (Subject analysis and structuring of inforstorische Quellen. (Subject analysis and structuring of information from different sources. Example: Book history sources) Orig.de. Nachr.Dok. Vol 43, No 6, 1992. p.365-372, 4 refs.

To meet increasingly complex information services the existing IR systems for bibliographic and factographic data must be further developed into knowledge-based systems. The architecture of such systems must be based on very specific investigations of user and functional needs. The core of the conception presented are ideas on unified knowledge models in a system with information from and about differing book history sources. Models of content analysis and database structuring are described in detail. (Authors, amended)

Nahl-Jakobovits,D.; Jakobovits,L.A.: A content analysis method for developing user-based objectives. Orig.en.
Research Strategies Vol 10, No 1, 1992. p.4-16, 12 refs. The article explains content analysis, a method whereby statements taken from oral or written library user comments are labeled as particular speech acts. These speech acts are then categorized into the three behavioral domains: affective, cognitive, and sensorimotor, and used to construct user-based instructional objectives.

West, A.N.: Primary process content in the King James Bible: the five stages of Oristian mysticism. Orig.en. Comput. Humanity Vol 25, No 4, 1991. p. 227-238, 35 refs. Freum described primary process thought as an archaic, global, non-temporal mode of consciousness in which logic and disbelief are suspended. Hypothetically, it is the form of awareness associated with mystical experiences. The Regressive Imagery Dictionary (Martindale, 1975) is a well-validated computerized content-analytic measure of primary process thought in natural language texts. The dictionary was used to assess my-stic content in the King James Bible.

4-245 Goodier, J.: CAIN, a Computer Assisted INdexing system. Origien Aslib Proc. Vol. 44, No. 6, 1992, p.251-252

Paper presented at a joint meeting of the Aslib Biosciences Croup and ALISSE entitled "New Dimensions in Agricultural information", held in Reading on 1 Nov.1991. The CAIN indexing contraction was demonstrated. The paper gives some details of the system was demonstrated. The paper gives some details of the operation of the system. Some comments on the practical and theoretical background are made. (Author)

Morroni, E.; Mancini, C., Minutoli, D.: Retrieval tools of data-bases in selected biomedical special libraries, Orig. It. Boll. Inform. Assoc. Ital. Bibl., N.S. Vol. 31, 1991. p. 139-144, 8 refs. Statists on the use, efficiency and error rate of descriptor lists, thesauri, classification systems. It seems that from the viewpoint of users considering the modern storage media, as e.g. CD-ROM, the use of descriptor lists and thesauri may not be necessary, however, from the librarians point of view aiming at reliable retrieval results, thesauri must be available and must be kept up-to-date constantly.

33 Classing and Indexing Techniques

See also 4-002, -088, -089, -141, -142, -291, -368, -410, 4-442, -443, -448, -449

Rasmussen, L.: Selected linguistic problems in Indexing within the Canadian context. Orig.en.
Indexer Vol 18, No 2, 1992. p.87-91, 5 refs.
Takes into account the linguistic characteristics of Canadian English and of Canadian French as well as the problems involv-

ed in bilingual indexing because of the trend in the English language towards nominalization. (Author, abbr.)

4-248 Nesterov, P.V.; Benonogov, G.G., Zelenkov, Yu.G., Kuznetsov, B.A.,

Nesterov,P.V.; Benonogov,G.G., Zelenkov,Yu.G., Kuznetsov,B.A., Pashchenko,N.A.: An interactive system for automated abstracting using a standard phrase dictionary. Orig.ru, transl.into en. Nauchno-tekhn.Inform.,Ser.2, Vol 25, No 7, 1991. p.13-15 Linguistic and programming aspects of the REFERAT system are described. The system abstracts and indexes scientific documents using a dictionary of standard phrases and a dictionary of keywords and key phrases. It includes programs for executing these functions in an interactive node. (Authors)

Jarányi, S.: "The stem and the branches". Knowledge organization and syntax. A review of Tibor Horvath's thesis for candidate's degree, Pt.2. Orig.hu. Könyvtari Figyelö Vol 8, No 2, 1992/3. p.445-452, 5 refs.

The first part of the review was published in No 1-1992 of Könyvtari Figyelö (p.50-58). This part deals with the PRECIS indexing language and its application in Hungary, describing the indexing system developed by the staff members of the Orszagos Pedagógiai Könyvtar és Múzeum (Central Library and Museum of Education) for the indexing of literature in the field of education. The PRECIS syntax can be apolied to different of education. The PRECIS syntax can be applied to different kinds of indexing units, e.g. free text, descriptors or keywords, the goal being the construction of a synthesized subject heading from the independent indexing elements, similar to a sentence in the natural language. Due to the peculiarities of the Hungarian language, suffixes as well as the transformation of predicates caused special problems. The reviewer presents excerpts from the thesis, providing some comments and explanations on the relevant parts. (Orig.abstract)

Tonta, Y.: LCSH and PRECIS in library and information science: A comparative study. Orig.en. Urbana-Champaign, IL: University of [[[inoIs 1992, 68p., 56 refs., Occasional Papers, No.194 Subject headings and PRECIS strings assigned for 82 titles are analyzed and the two major access systems are conpared with respect to the number of entries, exhaustivity, and specifici-ty of entries provided and the variety of subdivisions.

34 Automatic Classing and Indexing

941-251 341
Purcell, R.: Wanted: fully automated indexing. Orig.en. Library Software Review Vol 10, No 6n 1991. p.390-395, 21 refs.
An algorithm for automated indexing is outlined. The stages of indexing are analyzed and 3 language forms of indexing are explained. Computer-aided indexing and the components of an expert system for indexing are described. Highly inventive individuals might be able to show the way to further advancement.

Silva, W.T.da; Milldui, R.L.: Information indexing and retrieval with a belief function model. Orig. pt.
Clencia da informacao Vol 20, No 2, 1991. p.155-164, 13 refs.
Proposal of a belief function model for automatic indexing and Proposal of a belief function model for automatic indexing and ranking of documents with respect to a given user query. The model is based on a controlled vocabulary, such as a thesaurus and on tenn frequency in each document. Each descriptor in this vocabulary is a tenn among its synonyms which has been chosen to be the index term. A descriptor can have a subset of broader, narrower and of related descriptors. They are not nutually exclusive, naive probabilistic models are not adequate. A belief function can still be defined over a subset of atomic descriptors, viz. those without narrower terms (denoted 'omega'). Subsets of 'omega' can be viewed as broader terms, or as related tenns. Thus, the belief function over 'omega' can estimate the semantic content of a document. A weighted user query can be seen as another belief function. Since both can estimate the semantic content of a document. A weighted user query can be seen as another belief function. Since both functions are defined over 'onega', one can compute the conflict between them. The inverse of this computed conflict is a measure of agreement between the document and the user query. The authors propose that the set of documents be ranked by their agreement with the given user query.

Rabitti, F.; Savino, P.: Automatic image indexation to support content-based retrieval. Orig.en. Inform.Process.& Manangement Vol 28, No 5, 1992. p.547-565, 14 refs. Vol 28, No 5, 1992, p.547-565, 14 refs. The article presents a new approach for the automatic interpretation of the content of graphical and pictorial images and the creation of access structures based on this analysis. The automatic indexation of images is necessary to support the access to a database of images, giving conditions on the semantic image content. The key aspect of the image analysis process is on the composition of objects, in terms of other objects, taking into account different interpretations and different levels of recognition. The image analysis process can ferent levels of recognition. The image analysis process can be applied to Inages belonging to specific domains, described in advance to the system. Image analysis is performed in two steps: in the first step, simple objects are recognized start-ing from basic graphical/pictorial elements; in the second step, complex objects are recognized (applying domain rules)

as compositions of simpler objects and different interpretations are generated. The image query language allows the user to express conditions on the objects to be found in the images, on their relative positions, on their interpretation and degree of recognition. A comprehensive example, based on 2D graphical images, is discussed, and the implemented prototype is described.

(Authors)

Thiel, T.J.: Automated indexing of document image management systems. Orig.en. Documentation image Automation Vol 12, No 2, 1992. p. 43-49

The need to manage the ever-increasing morass of paper more effectively and efficiently has led to the evolution and acceptance of optical disk electronic document image processing (DIP) systems. But converting information on paper to a DIP system requires labor-intensive indexing. This automation effort generally includes optical character recognition (OCR) and Intelligent character recognition (ICR) to convert all or selected portions of the document base to ASCII characters and the use of full-text indexing and retrieval systems, Bar-coding is also being used to automate the document indexing step. Automated indexing with CCR/ICR and bar-coding is being effectively used in DIP systems. Several examples are presented. (Author)

Lomet, D.B.; Salzberg, B.: The hB-tree: a nultiattribute indexing method with good guaranteed performance. ACM Transactions on Database Systems Vol 15, No 4, 1990. p.625-658, 19 refs.

Pozhariskii, I.F.: Automatic document indexing (Case study of an automated geological information system). Orig.ru, transf. Into en. Nauchno-tekhn.inform., Ser. 2, Vol. 25, No. 10, 1991. p.5-13, 25 refs.

Autumatic indexing of documents (AID) obtained from several information centers is described. AID includes standardization of lexical units of document search patterns to create conditions for quality information search. The Skobki operating system identifies single-word terms represented by various parts of speech, forms of word combinations, and assigns auxiliary rubricator codes to terms of space and time categories. The indexing system includes decomposition of compound words. Three prefixes, a word stem, and three inflections are identified and converted. The operation performances of two information systems with AID and intelligent (manual) indexing are tion systems with AID and intelligent (manual) indexing are compared. (Author)

4-257 Robredo, J.: Automatic text indexing: an improved and simple approach. Orig.pt. Ciencia da Informacao Vol 20, No 2, 1991. A modification of the computational-linguistic approach to automatic processing of textual information, based on the elimination of non-significant words is described. It has been tested and applied and became a component of the AUTOMINDEX System which is an integrating part of the System BIB/DIALOXO. Examples of application are given.

Braga Manfrim,F.P.: Representation of contents by the automatic indexing process of full texts in Portuguese language.
Orig.pt. Ciencia da Informacao Vol 20, No 2, 1991. p.191-199

Nesterov, V.P.; Belonogov, G.G., Kuznetsov, B.A.: Computer linguistics at VINITI. Orig.ru. Nauchno-tekhn.Inform.Ser.2, No 5, 1991, p.1-3

Review of ma jor computer linguistics projects carried out at VINITI. These include the development of an industrial system for automatic identification and correction of spelling errors, a system for automatic indexing of documents, an experi-mental system for automatic indexing and one for automatic abstracting.

344 Buchan, R.L.: Quality indexing with computer-aided lexicogra-phy. Orig.en. Information Services & Use Vol 12, No 1, 1992. phy. Orig.en. Inf p.77-84, 40 refs.

With the aid of computer-aided lexicography, both indexing and indexing tools can provide standardization, consistency, and accuracy, resulting in greater quality control than ever before. A brief survey of computer activity in indexing is presented with detailed illustrations from NASA activity. Applications from the provided that the control of th plications from techniques mentioned, such as Retrospective Indexing (RI), can be made to many indexing systems. In addition to improving the quality of indexing with computers, the improved efficiency with which certain tasks can be done, is

4-261 Mnashi,M.; Rada,R., Beck,E., Michallidis,A., Zeb,A.: Computer-supported discussion and annotation. Orig.en. Inform.Process. & Management Vol 28, No 5, 1992. p.589-607, 40 refs. Discussion and annotation are two important activities in col-

laborative work with documents. HERD (Hypertext Environment for Reasoned Discourse) is an issue-based Information system which effectively supports informal discussions about requirements documents. HERD was used to support a discussion; while in another case study, HERD was used during annotation of an online textbook. The hypothesis was that the processes of annotation and discussion are sufficiently similar that a discussion system could support annotation. Although HERD provided a useful environment for discussion it was not especially suitable for annotation, because it did not ailow users to directly point to the document which was being annotated... A system called MUCH (Multiple Users Creating Hypertext) was developed to support collaborative authoring. The MUCH system supports document creation and includes features for 'discussing', 'authoring', 'annotating', and 'document reuse'... The two systems were compared and the data of discussion and annotation case studies were analyzed. (Authors, abbr.)

Coral, L.: Indexing and retrieving special materials in online catalogues. Orig.en. Intern.Cataloguing & Bibliographic Control Vol 21, No 2, 1992. p.29-31

4-263
Stadler, U.: Die Erweiterung von Online-Katalogen durch die Aufnahme von Angaben aus Inhaltsverzeichnissen und Registern mit dem Ziel einer besseren sachlichen Erschließung. Lösungsansätze unter Berücksichtigung des "Subject Access Project" der Syracuse University. (Enhancing online catalogues by adding entries from contents lists and indexes for better subject indexing. Approaches to solutions considering the Syracuse University SAP work) Orig. de. Köln: FHB 1992.

Geus, D.de: Roosmalen, M.van: Practical experiences ...: automated classification control. Orig. nl.
Open Vol 23, No 7/8, 1991. p. 262-265

Report on experiences with an automated system for additions and arendments to the indexing of newspaper cuttings in the offices of the Dutch "De Volkskrant" newspaper. The subject file uses some 3,000 headings from the UDC. It requires constant updating.

348: 355 Losee, R.M.: A Gray Code based ordering for documents on shelves: Classification for browsing and retrieval. Orig.en.

J.Amer. Soc. Inform. Sci. Vol 43, No 4, 1992. p. 312-322

A classification system is proposed that can classify documents without human intervention. A measure of classifier performance is developed, and used to evaluate experimental results comparing the distance between subject headings assigned to documents given classifications from the proposed system and the Library of Congress Classification system.

(Author, abbr.)

Wang, M.Q.; Hirschberg, J.: Automatic classification of intonational phrase boundaries. Orig.en. Computer Speech & Language Vol 6, No 2, 1992. p.175-196, 32 refs.
The relationship between the intonational characteristics of

an utterance and other features inferable from its text represents an important source of Information both for speech recognition, to constrain the set of allowable hypotheses, and for speech synthesis, to assign intonational features in predicting the location of one particular intonational feature intonational phrase boundaries – in natural speech. The corpus for this investigation is 298 utternaces from the 774 in the MARPA-collected Air Travel Information Service (ATIS) data-base. For statistical modelling, classification and regression tree (CART) techniques were employed. S ccess rates of just over 90% were achieved. (Authors, abbr.)

35 Manual and Automatic Ordering

See also 4~072, 4~265 (Shelflisting)

8-267
Beyce, B.R.; Stowe, M.: A brief investigation of U.S.Superintendent of Documents filing practice. Orig.en.
Coverrment Publ.Rev. Vol 18, No 4, 1991. p.3417-352, 5 refs.
Describes an automated programme to produce a shelf list of Superintendent of Documents Classification arranged publications by sorting them on the components of their SuDoc numbers. A survey of 139 depository libraries concerning their SuDoc filing procedures produced 87 usable responses, for a return rate of 648, 398, or 348, file all numbers before all letters with some variation on the 2nd level, 488, or 428, file all letters before numbers with small variations on the 2nd level. The remaining 138, or 118, utilize a mixed filing system, making use of an order based upon the components of the notation rather than their alphabetic or numeric characteristics. (Authors) eristics.

356 Hypertext/Hypermedia

associated with the implementation of hypertext-systems are addressed. Finally it is attempted to sketch the possible future of hypertext/Hypermedia. New application possibilities are seen especially in the integration of hypertext and knowledge-based systems, or in utilizing hypertext-systems for knowledge acquisition which are perhaps looked at as expert (Author, trans!.)

4-269 Carlson,P.A.; Slaven,M.: Hypertext tools for knowledge workers The next frontier: Tools that teach. Orig.en. Information Sys-tems Management Vol 9, No 2, 1992. p.53-61, 7 refs.

4-270
Nesterov, A.V.: Hypertext: A tensor approach. Orig.ru, transl. intoen. Nauchno-tekhn. Inform. Ser. 2, Vol. 25, No. 8, 1991. p.22-26, 8 refs.
The paper is published in an unconventional form as submitted by the author since its text itself is a sample of the "hypertext approach". A tensor is a mathamtical concept: a quantity defined by numbers and laws of their transformation. Likewise, the author "defines" a hypertext by types of its nodes (text, fact, or comment) and rules for manipulating them. This article has not been edited to avoid distorting the author's intent. (Orig.abstr.) (Orig.abstr.)

4-271

H-271
Bradley, N.: SCML concepts. Orig.en.
Aslib Proc. Vol. 44, No 778, 1992. p.271-274
The abbreviation SCML stands for Standard Generalized Markup Language. Markup refers to adding style and formatting information to text prior to publication. It is a Standard because SCML has been accepted and published by the ISO, and is not owned by any manufacturer or software vendor. It is Generalized because SCML is powerful and flexible, allowing it to be used in many applications. And it is a language that embodies used in many applications. And it is a Language that embodies a specification for creation of a set of rules to define the structure of a document. SCML has been designed to easily cross incompatible computer platforms, and its "open" nature allows for relatively simple access and manipulation of an SOML conforming document by both people and computers. Above SWIL conforming document by both people and computers. Above all, SOML proposes a new way of thinking about document creation and presentation, by shifting document style considerations to the publication process rather than the creation process. This is done by dividing the document into names, logical elements, to which any style can be later applied. A byproduct of this approach is the effective creation of a flexible database, providing further access to the data for information retrieval or for re-publication. (Author)

Dasser, S.: ODA - La nouvelle architecture de documents. (ODA - The new document architecture) Orig.fr. Tech.Mitt.PIT Vol 70 No 2, 1992. p.51-63, 19 refs.

Kircz, J.G.: Rhetorical structure of scientific articles: the case for argumentational analysis in information retrieval.

Orig.en. J.Doc. Vol 47, No 4, 1991. p.354-372, 43 refs.

In this paper the extent to which modern indexing and informa-In this paper the extent to which modern indexing and informa-tion retrieval research meets the needs and requirements of different types of readers is criticized. The main problem is identified as the assumption that knowledge contained in a scientific article can be represented by a semantic network only, and therefore can be manipulated by formal logic ap-proaches. Complementary to this, a plea is made to start an argumentational analysis of the - highlyx structured - corpus of scientific articles (mainly in physics). Such an analysis might lead to a argumentational syntax which will enable the might lead to an argumentational syntax which will enable the non-expert to browse through large quantities of electronical-ly stored articles. A first attempt at such an approach is given. Furthermore the possible use of the SCML approach in relation to a hypertext environment for a possible application is discussed. (Author)

36 Coding

Fan,D.P.; Curtsinger,J.M., Johnson,L., Kalkhar,S., John,J.St.: Unitized Data System: A new formalism for encoding and presenting data from the scientific research literature. Orig.en. J.Amer.Soc.Inform.Sci. Vol. 43, No. 5, 1992. p.371-383, 16 refs. Description of a unitized data system (UDS) for a scientific database where descriptions of Individual experimental steps are stored as separate text based subunits together with appropriate linking signals. (Authors, abbr.)

365 Encoding of Catalogue Data See also 4-143, 4-230

37 Reclassification

Maccaferri, J.T.: Managing authority control in a retrospective onversion project. Orig.en. Cat. 6 Classif.Quart. Vol 14 No 3/4, 1992. p.145-167, 45 refs.
Authority control is an essential component of the retrospective tive conversion process. Libraries contemplating authority control in this context need to consider the source of the converted records, the nature of the collection being converted, when and by whom the source records were cataloged, and the extent to which the converted records should approach local authority control standards. Choices for processing these records include manual and machine techniques or a combination of the two, while the actual work may be done in-house, by a vendor, or by dividin the work between local staff and a vendor. Decisions on which techniques and approaches to use will depend on local resources and standards. (Author)

374

38 Index Generation and Programs

4-276 381 Parsons, J.: Finding your way around the information maze: indexes as a signpost to Information retrieval. Orig.en.

Inform.Management & Technol. Vol 25, No 3, 1992. p.120-122

Consideration of some of the choices for computerization of indexes, including word processing, records administration systems, and text retrieval packages. Some of the general consecutation and the content of the conte systems, and text retrieval packages, some of the general concepts relating to indexes are also covered, including various approaches to indexing such as subject, word, and hierarchical indexing, and the use of coordinated themes. The options available within each type of computerization of indexing are also specified. (Author)

382 Modd, J.A.: F&S Index plus text on compact disc: Added value for a familiar resource. Orig.en. CD-RUM Professional Vol 5, No 6, 1992. p.84-88, 3 refs.
F&S Index plus Text on Conpact Disk was introduced by Predicasts in 1991. The "plus Text" results by linking abstracts, excerpts, and full-text records from Predicasts' FROMT database with F&S Index entries. (Author, abbr.) (Author, abbr.)

Mismen, J.K.: Creating keyword indexes using PC-File Plus.
Orig.en. Libr.Software Rev. Vol 10, No 2, 1991. p.105-109
Description of the work undertaken at the Oven Science and Engineering Library, Washington State University, to create a keyword index to the National Library of Medicine's Quick Bibliography Series using the PC-File Plust software.

387 Software See also 4-006, 4-066

387.99 Otis, A.: A reference model for object datamanagement. Computer Standards & Interfaces Vol 13, No 1-3, 1991, p.19-32

Zbornik, S.; Clasen, F.: ESURS: ein System zur Übersetzung von Retrievalsprachen. (ESURS: a system for translating retrieval languages) Orig.de. Nachr.Dok. 42(1991)No 4, p.271-281, refs. ESURS translates a number of the CCL retrieval commands into the commands used by DIALOG, STAIRS/MIKE, and DSO. ESURS uses techniques of compiler theory.

Klein, D. J.; Mihalić, Z., Plavsic, D., Trinajstic, N.: Molecular topological index: A relation with the Wiener Index. Orig.en. J.Chem. Inform. Comput. Sci. Vol 32 1992. p. 304-305, 15 refs. It is shown analytically that the recently introduced molecular topological index and the Wiener Index, known since 1947, are closely related graph-theoretical invariants for acyclic structures.

388-66 Symondson, B.: The Consolidated Index to law reports. Orig.en. Indexer Vol 18, No 2, 1992, p.79-82
Describes the history of law reporting by the Incorporated Council of Law Reporting for England and Wales and the procedure for preparing the consolidated index to The Law Reports.
(Author)

39 Evaluation of Classing and Indexing

See also 4-102, 4-103, 4-238

391 ISKO WC Content Analysis: User evaluation of information systems. ISKO-WC-CA Recommendation for Organization, R-01, Oct. 1992. Orig.en. Int.Classif. Vol 19, No 3, 1992. p.151-152
The first recommendation of the International Society for

Knowledge Organization (ISKO), Working Group on Content Analysis discusses the following and recommends measures concerning the problems of evaluation by the users of information systems, system survival power and noise, system survival power and information loss, delegatability of a search order. A system in order to function properly needs to be supplemented and interpreted by an information specialist. (German version on pages 153-154 of that issue.)

Jones, J.W.: An alternative to precision. Orig.en. ASIS'91. Systems understanding people. Proc.54th Ann. Meeting ASIS, Vol. 28. Washington, MC, 27-31 Oct.1991. Medford, NJ: Learned Inform. 1991. p.102-105, 9 refs.

Presents a new measure of retrieval evaluation, called 'cor-

rected precision, which attempts to refine the traditional precision measure by taking account of differences between users in their selectivity when judging the relevance of documents. Presents the formula for calculating corrected precision and brief remarks about its development and use, advantages and disadvantages, and summary statistics comparing the 2 (Author) from an empirical study of relevance.

Burgin, R.: Variations in relevance judgments and the evaluation of retrieval performance. Orig.en. Inform.Process.& Management Vol 28, No 5, 1992. p.619-627, 37 refs. Investigation of the degree to which variations in relevance judgments affect the evaluation of retrieval performance. Four

sets of relevance judgments were used to test the retrieval effectiveness of six document representations. In no case was there a noticeable or material difference in retrieval per-formance due to variations in relevance judgment. Additionally for each set of relevance judgments, the relative performance of the six different document representations was the same. Reasons why variations in relevance judgments may not affect recall and precision results were examined in further detail. (Author)

4 ON UNIVERSAL SYSTEMS

41 On Universal CS & T in General

See also 4-071, 4-075

42 On the Universal Decimal Classification

ee also 4-054, 4-061, 4-092, 4-094

42,119 Haarala,A.R.: The role of UOC in Finnish classification policy Orig.en. Int.Cataloguing & Bibliogr.Control Vol 20, No 3, 1991.

p.43-46, 6 refs.
The use of the UDC in Finnish library catalogues and in online retrieval systems are reviewed and the state of classification research in Finland and the work of the System Development Task Force are pointed out.

Hennes, H.-J.: <u>Neues Management für die Dezimalklassifikation</u>. (New Management für the UDC) Orig.de. Nachr.Dok. Vol 43, No 6, 1992. p. 408-409

Mendoca, A.M.de; Poni, C.: Subject index: the experience of USIMINAS Technical Information Center in the system implementation in microcomputer. Orig.pt. Ciencia de Informacao Vol 20 No 2, 1991. p.238-240, 4 refs.

The paper describes the development and implementation by mi-

crocomputer of the subject index used for information storage and retrieval through UDC at Usiminas Technical Information Center. The index is composed of terms and their classifica-tions, additional information (explanatory notes, information about process/products, etc) and cross-references, in a total of 9,350 files. Programmed dBase III was used, in a Nexus 2 600 microcomputer of Scopus. Access to the system is made through menus, allowing searches by terms, classification and filing number; changes (inclusion, modification or data detections); and listings. The systematization of job development and the benefits arising from automation are discussed.

4-290 Himanka, J.; Kautto, V.: Translation of the Finnish abridged edition of UDC into general Finnish subject headings. Orig.en. Int.Classif. Vol 19, No 3, 1992. p.131-134, 11 refs. A method to convert assigned UDC numbers into subject headings

A method to convert assigned UUC numbers into subject headings is examined. The method consists of two phases. In the first phase, a dictionary is created that maps UUC numbers to subject headings, and in the second one this dictionary is mechanically applied to convert the bibliographic databases. The first phase is tested with 15 different parts of the UUC, with translation success and problems recorded. The problems of each part are scrutinized, and three main types of UUC classes are described: the synthetic, the shallow enumerative and the deep enumerative. The time spent in the first phase is found

tolerable, and the initial question of translatability of the whole UDC is considered in the light of the results. (Authors)

Mandryka, T.N.; Shcherbina-Samojlova, I.S.: Quality analysis of indexing the domestic bibliographic units according to the Universal Decimal Classification. Orig.ru. Nauch.tekhn.bibl., No 6, 1991. p.23-25, 4 refs.

43 On the Dewey Decimal Classification (DDC) See also 4-057, 4-091

43.6-93 Redfern, B.: On first looking into Dewey Decimal Classification 20, Class 789: a review article. Orig.en. Brio Vol 28, No 1, 1991. p.19-28, 11 refs.

44 On the Library of Congress Classification

44.272
Calhoun, K.; Oskins, M.: Rates and types of changes to LC authority files. Orig.en. Inform.Technol.& Libraries 11(1992)
No 2, p.132-135, 2 refs.

448 On the Library of Congress Subject Headings See also 4-218, 4-250

448.273 Drabenstott, K.M.: The need for machine-readable authority records for topical subdivisions. Original Information Chapter Prairies Vol 11, No 2, 1992. p.91-104, 25 refs.

Schnelling, H.: Book review of Studwell, W.E.: Library of Congress Subject Headings: Philosophy, practice and prospects.

New York - London: Haworth Press 1990, 120p, Origien, Int.Classif. Vol 19, No 3, 1992, p.166

45 On the Bliss Classification (BBC)

See also 4-053

46 On the Colon Classification (RCC)

48 On Other Universal Systems

See also 4-444

Pleuß, A.: ASB: ein trostloser Zustand; die Sachklassifikation tritt auf der Stelle. (ASB, in a miserable state: subject classification does not move forward) Orlg.de. Buch u.Bibliothek Vol 43, 1991, p.853

4-298
Hoffmann, U.; Schmitz, H.K.: RSMK und SWD an Öffentlichen Blb-liotheken. Kolloquium in Düsseldorf. (Colloquy in Düsseldorf on the Rules for Subjec Cataloguing and the Standard Subject File) Orig.de. Bibliotheksdienst Vol 26, 1992, p.34-37

Lehmann, K.: Einzelfragen der Überarbeitung der KAB/E. (Sone revision problems of KAB/E) Orlg.de. Bibliotheksinfo Vol 1, 1991. p.613-618

Jonzeck, M.; Lehmann, K.; Zur erneuten Überarbeitung der KAB/E. (On renewed revision of the RAB/E) Orig.de. Bibliotheksinfo Vol 1, No 5, 1991. p.310-312

485.328-39 Hinweise zur Klassifizierung nach KAB/E. (Hints for classing according to KAB/E) Örig.de. Bibliotheksinfo Vol 1, No 4, 1991 p.249-251

485.6834 Diener, H.; Lehnann, K.; Neue KAB/E-Untergruppen M 032 und M 033. (New subdivisions in KAB/E) Orig.de. Bibliotheksinfo Vol 1, No 5, 1991. p.312-314

Gendiina, E.I.: The Russian Rubricator: A unified system of classificatory indexing languages. Orig.en.
Int.Classif. Vol 19, No 3, 1992, p.126-130, 3 refs. In the early 80's a common nation-wide automated scientific and technical information system with the Russian acronym GASNTI was developed in the then Soviet Union of which one component was a classification system called Rubricator. This system is still in use in Russia and is described in detail; its main classes are listed and also its Common Auxiliaries. Its structure is explained as well as its syndetic features and an example is included of class 20: Informatics.

5 ON SPECIAL OBJECTS CS

Cuzenda, L.; Wade, A.E.: A taxonomy of standards. Computer Standards and Interfaces Vol 13, No 1-3, 1991. p.65-70, 1 ref.

Petitjean, M.: Applications of the radius-diameter diagram to the classification of topological and geometrical shapes of chamical compounds. Orig.en.

J.Chem. Infonm. Comput. Sci. Vol 32, 1992. p.331-337, 10 refs.

6 ON SPECIAL SUBJECTS CS & T

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

Sutter, E.: Standardization - An international classification for standards. Orig.fr. Documentaliste Vol 29, No 4-5, 1992.

The International Standards Organization will be publishing an international standards classification which will come into use from 1994. The objectives and structure of this classification is described.

Kehoe,A.; Parker,G.A.: An IKB defect classification system for automated industrial radiographic inspection. Orig.en.

Expert Systems Vol 8, No 3, 1991. p.149-157, 14 refs.

The IKB defect classification system presented is based on a hierarchical frame-based knowledge representation and a backward chaining production rule system. Examples of the frame structures, frame taxonomies and the data-driven procedures, which maintain the knowledge base are given, along with an outline of the defect classification rules and the inference mechanism for dealing with uncertainty by means of confidence (Authors, abbr.)

64 On CS & T in the Bio Area 4

648

Hendricks, T.C.: Langual. An automated method for describing, capturing and retrieving data about food. Orig.en.

Gayle, P.; Stoss, F.W.: Environmental terms and phrases: a suggested list. Orig.en. Database Vol 14, No 4, 1991. p.22-26

65 On CS & T in the Human Area 5

651/4 On CS and T in the Medical Sciences See also 4-040

Bronson, R.J.: NLM's MeSH vocabulary file. Orig.en.
Medical Reference Services Quart. Vol 11, No 2, 1992, p.47-57 The following printed publications list the MeSH headings: The Annotated Alphabetic List, the Tree Structures, the Pennuted MeSH, the Medical Subject Headings Supplementary Onemical Records, and the "Black and White MeSH", which is shipped as part of an Index Medicus subscription. An online databse is available which combines the features of these publications and can provide useful information to searchers of NIMEs comand can provide useful information to searchers of NLM's computer databases. Describes the scope, searching strategies and special features of the online MeSH Vocabulary File. (Author)

656: 88-56

Kuznetsov, S.O.: The complexity of classifying in education based on the matching up of the majority of attributes. Orlg. ru. Nauchno-tekhn.inform., Ser. 2, No 9, 1991, p.8-15, refs.

67 On CS & T in the Econ. & Production Area 7

Hendley, T.: Workflow management software. Orig.en. Infonn.Management & Technol. Vol. 25, No. 4, 1992, p.170-174 Report on the UKALIM Seminar on Workflow Management Software and presentation of a classification of workflow systems.

676 On Commodity and Product CS

See also 4-231

6764

Barbe, M.: Appelation et classification des papiers. Orig.fr. ARBIDO-R Vol 7, No 3, 1992. p.75-82
There exist thousands of paper qualitles and fiberproducts. Paper classification is not easy, the present article attempts to show this, It also offers many relevant definitions.

68 On CS & T in the Science & Inform. Area 8

WasowItz,L.: (Book review of) Cenre Terms: A thesaurus for use

in rare book and special collections cataloging, Prep.by Bib-liogr. Standards Comm. (ACRL/ALA). Chicago: Assoc.of College & Res.Libr.1991. VII,78p. Libr.Quart. 62(1992)No 3, p.363-365

4-316 6817

Korennoi, A. A.: <u>Scientometrics classification of research</u> groups. Orig.en. Int.Inform., Communic.& Educ. Vol 11, No 1, 1992. p.13-25, 10 refs.

Farrés, J.: Classifying electronic data interchanges. Origen. Comput.Standards & Interfaces 14(1992)No.1, p.13-21, 12 refs. Some general criteria are presented which allow many concurrent standards for EDI, document marking, message interchange, etc. to be classified in a homogeneous framework. At the same time, the same criteria provide simple guidelines on how to identify and analyse the user exchange requirements leading, frequently, to the right EDI choice. (Author, abbr.)

683 Niemeyer, St.: Arbeitskreis Systematik legt wichige Ergebnisse vor. (The Working Croup on Classification presents important results). Orlg.de. Neue Büch (1991)p.500-502

The Groups work on 'computer technology' and 'amateur work' (basteln) of the ASS classification system are introduced and presented.

6842

Ang, J.: A classification of advanced office systems to aid in their development. Orig.en. Information & Management Vol 23, No 3, 1992. p.ii5-122, 78 refs.

Building on previous work, a classification of office systems was developed using both, the level of support and the underlying conceptual framework as discriminating dimensions.

L-320

Kunanz, A.: Erstellung eines Thesaurus für eine Kongreß-Datenbank. (Thesaurus elaboration for a congress database) Orig.de. Hannover, DE: FHS, FB BID; Thesis 1991. 40p.

59 On CS & T in the Humanities Area 9

See also 4-078

6918 Bies, W.: (Book review of) Fachsystematik und Einzelsprachen-systematik des Instituts für Allgemeine Sprachwissenschaft d. Westfällschen Wilhelms-Universität Münster. Münster 1989. 3rd ed. 305p. Orig.en. Int.Classif. 19(1992)No 3, p.166-8, 2refs.

6918
Hosaka, J.; Takezawa, T., Ehara, T.: Classification of conjunctive postpositions in spoken language towards speech recognition. Orig.en. Literary & Linguistic Computing Vol 6, No 4, 1991. p.253-258, 9 refs.

A classification of postpositions for spoken Japanese speech recognition based on enpirical data is proposed.

694 On CS in the Arts See also 4-041, 4-067

651/4

Gnam,M.: Das Fachgebiet Kunst in der Systematik. Vergleichende Betrachtung von Systematiken hinsichtlich Struktur und Verwendbarkeit in Bibliotheken. (Classification of the subject field "arts". Comparative Investigation concerning structure and applicability of classification systems in libraries). Orig.de. Stuttgart,DE: FHS Bibliothekswesen; Thesis 1992.

7 CLASSIFICAT. AND LANGUAGE

71 General Problems of Natural Language

4-324 H-324 Purger, H.G.: Roget, Darwin, & Bohr: Parallelizing evolutionary diversification with conceptual classification. Orig.en.

Int.J.Lexicography Vol 4, No 1, 1991. p.23-67, 60 refs.

An ideal word-system must actively scan the real-world's occupations. Following Niels Bohr's 'complementarity', conceptual sequencing requires the segregation of structural form from processual words. Each environmental impact should be 'blnar-

processual words. Each environmental impact should be 'binar-ized' as the immediately preceding transitive plus the addendum. Thereby all fall into branched sequences. Such a 'cladistic' system reproduces causality, and enables traceability, hence environmental maneuverability. Just such a system, "The Wordtree", has now been published. Roget's Thesaurus will remain a brilliantly useful, modestly updatable arrangement of synonymies, desirable for those who wish to describe the world but not to engineer it. (Author, abbr.)

715 Artificial Intelligence

See also 4-030

715: 757 Barth, G. et al: Künstliche Intelligenz, Perspektive einer wissenschaftlichen Disziplin und Realisierungsmöglichkeiten, (Artificial Intelligence, Perspectives of a scientific discipline and possibilities for its realization). Orig.de. Informatik-Spektrum 14(1991)p.201-206

4-326 715; 757 Gillman, P.: Book review of Ford, N.: Expert systems and artificial intelTigence: An information manager's guide, London: Library Assoc. 1991. XIV,277p. J.Doc. 48(1992)No 2, p.241-242

Sadovskij, V.N.; Kostjuk, V.N. (Eds.): Artificial intelligence and knowledge organization problems: Collection of scientific papers. Orig.ru. Moskva: USSR Academy of Sciences Institute for System Studies, VNIISI 1991. 108p., Sbornik Trudov Vyp.8, ISSM 5-201 1080ps. ISBN 5-201-09945-9

Some actual problems of artificial systems elaboration are considered. General methodological questions and questions of working out special nonclassical logics which can be effectl-vely used in artificial intelligence systems are discussed. The authors offer come approaches to solving different engineering and system tasks arising in designing those systems.

(Authors)

Pospelov, D.A.; Levitin, K.E. (Eds.): The future of artificial intelligence: Collection of papers and statements of Russian and foreign scientists. Orig.ru. Moskva: Nauka 1991. 302p.

72 Semantics

See also 4-031

Ciganik, M.: A useful kernel representation of a text. Orig.sk Kniznice a informacie Vel 24, No 10, 1992. p.417-424, 5 refs.

4-330
Sowa, J.F. (Ed.): Principles of semantic networks. Explorations in the representation of knowledge. Orig.en. San Mateo, CA: Morgan Kaufmann Publ. 1991. 582p., ISBN 1-55860-088-4
The 19 "chapters" (each paper being considered a chapter) are arranged in the following three sections: (1) Issues in Knowledge Representation, (2) Formal Analyses, (3) Systems for Knowledge Representation, each with an introduction.
4-331 Woods, W.A.: Understanding subsurption and taxonomy: A framework for progress. - 4-332 Schubert, L.K.: Semantic nets are in the eye of the beholder. - 4-333 Shastri, L.: Why semantic networks? - 4-334 Shapiro, St.C.: Cables, paths, and "subconscious" reasoning in propositional semantic networks. -

mantic networks? - 4-334 Shapiro, St.C.: Cables, paths, and "subconscious" reasoning in propositional semantic networks. - 4-335 Sowa, J.F.: Toward the expressive power of natural language. - 4-336 Wilensky, R.: Sentences, situations, and propositions. - 4-337 Thomason, R.H.; Touretzky, D.S.: Inheritance theory and networks with roles. - 4-338 Stein, L.A.: Extensions as possible worlds. - 4-339 Selman, B.; Levesque, H.J.: The tractability of path-based inheritance. - 4-340 Crawford, J.M.; Kulpers, B.: ALL: Formalizing access-Limited reasoning. J.M.; Kuipers, B.: ALL: Formalizing access-Limited reasoning, 4-341 Nebel, B.: Terminological cycles: Semantics and computational properties. - 4-341 Zadrozny, W.: Logical dimensions of some graph formalisms. - 4-343 MacGregor, R.: The evolving technology of classification-based knowledge representation systems. - 4-344 Brachman, R.J.; cQuinness, D.L., Patel-Schneider, P.F., Resnick, L.A., Borgida, A.: Living with classic: When and how to use a KL-One-like language. - 4-345 Kobsa, A.: Utilizing knowledge: The components of the SB-One Knowledge Representation Workbench. - 4-346 Hartley, R.T.; Coorbs, M.J.: Reasoning with graph operations. - 4-347 Hewett, R.; Hayes-Roth, B.: Representing and reasoning about physical systems using prime models. - 4-348 Jacobs, P.S.: Integrating language and meaning in structured inheritance networks. - 4-349 Skuce, D.: A frame-like knowledge representation integrating abstract data types and logic. - An index concludes the work.

Wilks, Y.: Book review of Jackdorff, R.: Semantic structures, Cambridge, MA: MIT Press 1990, XIV,322p. Orig.en. Computational Linguistics Vol 18, No 1, 1992, p.95-97

Machova, S.: Book review of Steele, J.: Meaning-text theory: Linguistics, lexicography, and implications. Oftawa: Univ. of Ottawa Press 1990. XI,439p. Orig.en. Computational Linguistics Vol 18, No. 1, 1992. p. 108-111, 4 refs.

73 Automatic Language Processing

732 cRoy, S.W.: Using multiple knowledge sources for word sense discrimination. Orig.en. Computational Linguistics Vol 18, No 1, 1992. p.1-30

74 Grammar Problems

Gazdar, G. (Ed.): Special Issue on Inheritance: I. Orig.en. Computational Linguistics Vol 18, No 2, 1992. p.132-238 Inheritance mechanisms and their implications for description, theory, and processing have become an increasingly important research topic in computational linguistics. In two special issues of this journal, a sample of current research in this area is being presented. (from the Editors' Note).

4-355 Zajac, R.: Inheritance and constraint-based grammar. 4-355 Zajac, K.: Inheritance and constraint-based grainer for-mailisms. - 4-356 Boura, G.: Feature structures and nonmonoto-nicity. - 4-357 Paelemens,W.: De Smedt,K., Gazdar, G.: Inheri-tance in natural language processing. - 4-358 Linden, E. van der: Incremental processing and the hierarchical lexicon.

Rakhilina E.V.: Adjectives through the prism of nouns and vice versa. Orig.ru. Nauchno-tekhn, Inform., Ser. 2, No 9,1991, p.26-8

75 Question-Answering Systems, Online Techn

751 General and Theoretical Problems

See also 4-202

4-360 751 Gel'bukh, A.F.: Minimization of the number of attempts in accessing the disc memory facility for vocabulary and morphological analysis. Orig.ru. Nauchno-tekhn.inform., Ser. 2, No. 6, 1991. p.15-18, 8 refs.

Ohen, H.: Knowledge-based document retrieval: framework and design. Orig.en. J.Infonn.Sci. 18(1992)p.293-314, 53 refs. A sementic network structure was adopted to represent subject knowledge and classification scheme knowledge and experts' search strategies and user modelling capability were modelled as procedural knowledge. These functionalities were incorporated into a prototype knowledge-based retrieval system. Meta-cat. Description of the accomplishments with this system.

752 Online Catalogues

See also 4~262

752 Husain, Sh.; O'Brien, A.: Recent trends in subject access to OPACs: An evaluation. Int. Class. 19[1992]N3, p. 146-5, 43 refs.

Kinnucan, M.T.: Fisheye views as an aid to subject access in online catalogues. Orig.en. Canadian J.of Inform.Sci. Vol 17, No 2, 1992. p.25-40, 35 refs.

There are many problems with subject access in online catalogs. One of the major problems is information overload. One kind of this occurs when the display consists of a lengthy segment of the subject index in which a single subject heading is followed by a bewildering array of subdivisions, qualifications, and phrases. This problem can be alleviated by presenting the subject index in a summary form that the user can expand to provide more detail as appropriate. Such an approach could be realized within the context of a direct manipulation style of user interface. In particular, a manner of displaying information called "fisheye views" could be applied to the subject index display.

4-366 752; 812

Tar, K.; Novak, I.: Subject authority control in an online catalogue for periodical articles and in the subject indexes of the printed versions. Orig. hu.

Könyvtari Figyelö Vol 38, No 2, 1992. p.59-65, 5 refs.

The authors' solution to subject authority control in the Library Science Library's online catalogue MANCI is presented. The authority control of terms is based on a machine-readable database created from the library's printed thesaurus using the Micro-ISIS package, as well as a simple thesaurus software written in the ISIS-PASCAL language. Relying on the relations of the descriptors in the thesaurus database a reference-selof the descriptors in the thesaurus database a reference-sel-ecting program has also been written, by which the see and see also references are automatically selected. (Authors, abbr.)

753 Online Activities, Query Optimization See also 4-240, 4-263, 4-380

756 Thesaurus/Classif.-based Queries

See also 4-140, 4-362

757 Expert Systems

see also 4-197, 4-325, 4-326

Deschamps, P.B.: Standards for expert system tools. Supporting the technology's integration. Orig. en. Information Systems Management Vol 9, No 1, 1992. p.8-14

4-368
757.33
Kuntz, R.: The application of expert systems to indexing.
Orig.en. Current Studies in Librarianship Vol 15, No 1-2, 1991.
p.3-26. 23 refs.

Valkonen, P.; Nykänen, O.: An expert system for patent classification. Origien. World Patent Inform. Vol 13, No 3, 1991. p.143-147, 13 refs.

Difficulties in using the IPC, especially for infrequent users are discussed and the feasibility of producing an expert computer program to assist users is considered. A prototype IPC expert system generated in Finland on a MacIntosh personal computer is described.

(Authors)

Wagner, R. (Ed.): Special issue: Expert Systems and Law, Orig. en. Expert Systems with Applications 4(1992)No 4, p.333-422
Roland Wagner starts this special issue with a Cuest Editor's Note, introducing the following nine contributions:
4-371 Smith, J.S.; Gelbart, D., Graham, D.: Building expert systems in case-based law. - 4-372 Barklund, J.; Hamfelt, A., Winsche, J.: Building modular legal knowledge systems. 4-373
Bench-Capon,T.J.; Coenen,F., Dunne,P.E.S.: Integrating legal support systems through document models. - 4-374 Calindo, F.: E pert systems as tools for the explanation of the legal domain: The ARPO experiences. - 4-375 Baaz, M.; Quirchnayr, G.: Logic-based models of analogical reasoning: A fundamental basis for the design of legal e pert systems. - 4-376 Thomasset, C.; Blanchard, F., Paquin, L.-C.: Loge-Expert: Strategies to integrate legal knowledge model ization, non-expert user interface, and te tual data base into the development of an expert system in law. - 4-377 Di Giorgi, R.M.; Fameli, E., Nannucci, R.: A legal expert system prototype integrated with databases. 1-378 Cammelli, A.; Socci, F.: Informatics for the law: LEXIS - a legal expert system on Italian family law. - 4-379 De Mulder, R.V.; Noortwijk, C.van, Kerkmeester, H.O., Wees, J.G.L.van der: Knowledge systems and the law: The JURICAS Project.

757.753 Zahir,S.; Chang, Ch.L.: Online-Expert: An expert system for online database selection. Orig.en. J.Amer.Soc.Inform.Sci. Vol 43, No 5, 1992. p.340-357, 28 refs.
The design of an expert system called ONLINE-EXPERT is discussive.

The design of an expert system called ONLINE-EXPERT is discussed. It was built after acquiring knowledge from available human experts and printed documents such that users could obtain advice on the selection of appropriate databases. To further enhance the knowledge base, a multicriteria decision analysis technique called the Analytic Hierarchy Process (AHP) was used to construct a decision model that provided, within the framework of the expert system, the ranking of databases and hosts in order of preference. (Authors, abbr.)

4-381 757.772 Wijnands, P.H.: La néonymie et les systèmes experts. (Neonymy and expert systèmes) Origiff. Banque des Mots Vol 42, 1991.

76 Lexicon/Dictionary Problems

4-382
Roguraev, B.; Neff, M.: Text representation, dictionary structure, and lexical knowledge. Orig.en. Literary & Linguistic Computing Vol 7, No 2, 1992. p.110-112, 6 refs.
Text encoding, when applied to complex text types, requires

Text encoding, when applied to complex text types, requires principled separation of (visual) presentation properties of text from (conceptual) functional organization of content. This is particularly pressing when machine-readable dictionaries (MRDs) are being analyzed for implicit lexical semantic content. It is argued that a current proposal for te t-encoding guidelines falls semewhat short of making such a separation; it is furthermore argued for such a separation, by demonstrating the benefits it brings to a methodology for extracting lexical data from MRDs. (Authors)

77 General Problems of Terminology

See also 4-097, 4-100, 4-445

4-383 77.07
Leclerce, H.: Book review of Sager, J.A.: A practical course in terminology processing. Ansterdam, etc.: J.Benjamins 1990.
XI.254p. Origif. Int.Classif. Vol 19, No 3, 1992. p.169

4-384 771 Gilreath, Ch.T.: Hannonization of terminology. An overview of principles. Orig.en. Int.Classif.Vol 19, No 3, 1992. p.135-9, 18 refs.

In terminology work there are four basic things needing to be hammnized: 1. concepts, 2. concept systems, 3. definitions, and 4. terms. These are briefly discussed, along with the related notions of extension and archetype (intension). Other factors covered include: participation, consensus, required attitudes, tools of explication, a.o. (Author, abbr.)

4-385 771
Hermans, A.: Language planning and terminology planning. Sociolinguistic aspects. Orig.en. Meta Vol 36, No 4, 1991. p.687-9,
7 refs

772 Form and Designation of Terms

See also 4-381

4-386 772
Gajda, S.: The internationalization of terminology and terminological significance of Greek-Latin affixes. Orig.en.
Neotenn, No 17-20, 1991. p.61-66, 12 refs.

4-387
Lerat, P.: L'analyse morphologique des termes nouveaux. (Morphological analysis of new terms) Orig.fr. Banque des Mots, 1990. N.S., p.23-34, 12 refs.

Wijnands, P.: Analyses néologiques à partir des mots nouveaux apparus depuis 1985. (Neological analyses of new words having appeared since 1985) Orig.fr. Banque des Mots, 1990. N.S. p.5-22

4-389 772
Cabre, T.: La néologie dans la presse Catalane: Premières données d'un observatoire de néologie. (Neology in the Catalan press: first date of a neology observatory) Orig.fr. Banque des Mots, 1990. N.S., p.75-84

4-390 776
Davidson, P.M.: Computerized terminological databases for translators who use word processors. Orig.en. Meta Vol. 36, No 2-3, 1991. p. 424-430, 6 refs.

4-391
Côté, C., Leide, J.E., O'Hearn Taminiau, J.A.: Terminologie TERMIUM, une banque des données linguistique et un CO-ROM.
(Terminology - TERMIUM: A linguistic databank and a CD-ROM).
Orig.fr. Documentaliste 29(1992)No 4-5, p.215-217, 3 refs.
The article presents TERMIUM, a linguistic database originally created by the University of Montreal and Which now belongs to the Federal Government of Canada, whose Secretary of State Department is responsible for its development and dissemination.
The database, used by more than 3000 users in North America and Europe, is made up of one million records representing approximately three million words in all different fields of knowledge. TERMIUM is now offered on CD-ROM, which should favorize access by translators, editors and other information professionals, especially in Europe and the francophone community.

(Author)

4-392 776 ru Marchuk, Yu.N.: Contemporary terminology concepts. Orig.ru. Nauchno-tekhn.Inform.,Ser.2, No 5, 1991, p.32-33, 3 refs.

Vol. 142, 1991. p.49–58, 7 refs.

4-394 777 Terminology activities in Bucharest, Romania, 2-5 June 1992. Orig.en. Int.Classif. Vol 19, No 3, 1992. p.147-148

4-395
Rijo da Fonseca Lino, M.T.: Néologie(s) et terminologie: observatoire du portugais contemporain. (Neology(les) and terminology: observations in contemporary Portuguese) Orig.fr. Banque des Mots, 1990. N.S., p.67-74, refs.

4-396

Hemans, A.; Mayar, M.-P.: Ressources terminologiques belges recentes. (Recent Belgian terminology ressources) Orig. fr.

Cahiers de la Doc./Bladen voor de Doc., No 1, 1992, p.14-24

78 Subject-Oriented Terminology Work

4-397 78-264
Eggert,A.A.; Jacob,A.T., Middlecaπp,C.H.: Converting chemical formulas to names: An expert strategy. Orig.en.

J.Chem.Inform.Comput,Sci. Vol 32, 1992. p.227-233, 12 refs.

4|-398 78-4|; 926 Blaine, L.: The COCATA Commission on standardized tenninology for access to biological data. Orig.en. COCATA Bull. Vol 23, No 4, 1991. p.38-46

4-399 78-61 Maillard, N.: Glossary fr-en: The variables in sociology. Orlg. en,fr. Terminologie et Traduction, No 2, 1990, p.299-305 Lists 33 definitions in English and in French on kinds of variables, such as 'individual variable', 'absolute variable', 'relational variable', etc.

Chansou, M.: Termes de la finance et de la bourse. Essai d'or-ganisation conceptuelle d'une terminologie. (Terms on finances and stock exchange: testing a conceptual organization of a terminology) Orig.fr. Banque des Mots, 1990. N.S., p.35-48

Caudin, R.: Enquête sur l'impact des arrêtés terminologiques auprès des megistrats. (Survey on the impact of terminological orders for court officials) Orig.fr. Banque des Mots Vol 42, 1991. p.59-66, 3 refs.

78-824

Peterson, T.H.: An archival bestiary. Orig.en. Aver.Arch. Vol 54, No 2, 1991, p.192-205, 3 refs. This whimsical presentation analyzes the origins, relationships, and evolution of archival terms and expressions.

Author)

4-403 78-837: 757 Commier, M.C.: Temminologie anglais-francais des systèmes experts et des sujets connexes. (English-French terminology of expert systems and related subjects) Orig. en, fr. Meta Vol 36, No 2-3, 1991

79 Problems of Multilingual Systems

Durand, J.; Bennett, P., Allegranza, V., Van Eynde, F., Humphreys, L., Schmidt,P., Steiner,E.: The Eurotra linguistic specifications: an overview. Orig.en. Mach. transl. Vol 6, No 2, 1991. p.103-147, refs. [3p.)

Wright, S.E.: The role of terminology in translation-oriented quality assurance. Origien. In: Norizons: Proc.32nd Ann.Conf. Amer.Translators Assoc., Salt Lake City, UT, Oct.1991. Medford, NJ: Learned Inform. 1991. p.227-248
When applied to texts for translation, tranlation-oriented terminology work ensures repeatability and reproducibility, two primary components of quality assurance. By documenting functional equivalents in a subject field, individual translators can guarantee they will be able to repeat terminological performance from one translation job to another, and that other translators orking with the same materials can reproduce the same level of terminological accuracy. These factors translate into higher quality and reduce the time required to produce the finished product, thus narrowing the quality/quantity gap that faces all translators, whether they work as freelancers or in bureaux and translation departments. (Author)

8 APPLIED CLASSING AND INDEXING (C & I) 81 General Problems of Applied C & I

812 Alphab. Subject and Classif. Catalogues

See also 4-142, 4-144, 4-366

814 Rules, Codes for Subject Cataloguing

1014 Loose, A.: Das Regelwerk des Schlagwertkataloges der Gleimbib-liothek Halberstädt: (The rules for the subject catalogue of the Gleim-Library at Halberstadt) Orig.de. Leipzig: Fachschule für wissenschaftliches Bibliothekswesen, Abschlußarbeit 1991. 28p.

Clack, M.E.; Kummerer, M., James, B., Lenzini,R.T., Meglio,D., Lewicky,G.: The balance point: indexing policies. Orig.en. Serials Review Vol 18, No 3, 1992. p.49-58

Berndt,M.: Der Cöttinger Schlagwertkatalog und die Zukunft der verbalen Sacherschließung in der SUB. (The Cöttingen subject catalogue and the future of verbal subject analysis in the State and University Library) Orig.de. SUB-Kultur Vol 1, No 1, 1991. p.20-22

It was decided to close the Göttingen card catalogue for subjects and continue with the PICA Basic Classification and SMD.

Sokolova, N.G.: The subject catalogue of the USSR State Public Library of Science and Technology and its relation to the classified catalogue. Orig.ru. Nauch.i Tekhn.Biblioteki SSSR, No. 11, 1991. p.20-23

Müller, E.: Suhler Erfahrungen mit der Schlagwortgebung. (Ex-periences with subject indexing at the Suhl WAB Library) Orig.

de. Bibliotheksinfo Vol 1, 1991, p.761-763

Wilson, N.: COMPASS. Orig.en. British Bibliographic Services

Wilson, N.: COMPASS. Orig.en. British Bibliographic Services Newsletter, No. 4, 1991. 2p.
The article explains the COMPASS headings, their construction, their connectives, standards, reference structure, authority file and user manuals. COMPASS headings have been appearing in the British National Bibliography MARC based products supplied by the National Bibliographic Service since January 1991. The change from PRECIS to COMPASS by the British Library is also explained as well as COMPASS's relationship to PRECIS/DCC.

82 Data C & I

820

Semenova, S.Yu.: Algorithm for the extraction of information about parameters from the texts of reports and primary documents. Orig.ru. Nauchno-tekhn. Inform., Ser. 2, No. 6, 1991. p.22-32, 8 refs.

Describes a database designed to store factual information extracted from the texts of primary documents and reports of research in the field of technical systems and technological processes.

Dias, J.R.: Deciphering the information content of chemical formulas: Chemical and structural characteristics and enumeration of Indacenes. Orig.en. J.Chem.Inform.Comput.Sci. Vol 32, 1992, p.203-209, 31 refs.

84 C & I of Primary Literature (Except 85) See also 4:-4:21

Baird,B.; Sheridan,S.: Indexing The Australian Women's Weekly. Orig.en. Australian Library J. Vol 41, No 2, 1992. p.145-150,

H-415

Todorov, R.: <u>Displaying content of scientific journals</u>. A coheading analysis. Origien. Scientometrics Vol 23, 1992 No.2, p.319-334, 10 refs.

A coheading analysis is proposed for representing the subject content of scientific journals. It is based on the subject headings assigned to documents before their input in bibliographic databases. The analysis was applied in the field of superconductivity to display the content of some physics journals using data from 1984 Physics Abstracts. (Author, abbr.) nals using data from 1984 Physics Abstracts. (Author, abbr.)

Nyans, C.C.: Cataloging theses and dissertations. An update, Origien. Cat. 8 Classif Trart. 14(1991)No 1, p.83-87, 7 refs.

Boyce,B.R.; Douglass, S., Rabalais, L.J.: A sort procedure for the Superintendent of Documents Classification. Orig.en.
Covernment Inform.Quart. Vol 6, No 2, 1989. p.175-182

86 C & I of Secondary Literature

DeHart, F.E.: Monographic references and information science journal literature. Orig.en. Inform.Process. Management Vol 28, No 5, 1992. p.629-635, 10 refs.

The grawing availability of full-text databases in the journal literature may eventually make it possible to perform automated citation analysis involving end-of-article references. This study explored the feasibility of automatically identifying and analyzing end-of-article monographic references in full-text databases for use in citation studies. (Author, abbr.)

87 C & I on Non-Book Materials

See also 4-253

Chang,Ch-Ch.; Wu,Tz.-Ch.: Retrieving the most similar symbolic pictures from pictorial databases, Orig.en. Inform. Process. & Wanagement Vol 28, No 5, 1992. p.581-588, 8 refs.

In this article, an iconic indexing mechanism is suggested for spatial similarity retrieval on iconic inage databases based upon the spatial relationships among the objects in a picture. The iconic objects dealt with were some kinds of gross panorana of simple objects. (Authors, abbr.)

Richter, Ch.: Die inhaltliche Erschließung von Musiktonträgern in Bibliotheken. Analyse und Bewertung verschiedener Erschliessungsmethoden in ausgewählten Bibliotheken. (Subject indexing of musical data carriers in libraries, Analysis and evaluation of different indexing methods in selected libraries) Orig. de. Hamburg, DE: Fachhochschule Hamburg, FB Bibliothek u.Information, Thesis 1990/91.

4~421 Myers, J.S.: Patent images on CD-ROM: Numeric vs classified sets. Orig.en. World Patent Information 14(1992)No 2, p.67-70 The costs of recording U.S.patents on CD-ROMs as numeric sets or classified sets (by class, technology group or subclass) are analyzed and compared. The advantages of the two types of sets, both for searching and document reproduction are discus-(Author)

88 C & I in Subject Fields

88-0 Domokos, M.: Application of general subject headings in German and Austrian Tibraries. A review. Orig.hu. Könyvtari Figyelö Vol 38, No 2, 1992/3. p.453-460, 11 refs.

88-36 Indexing in Geology

See also 4-304

Fichtner, G.: Krankenunterlagen als Quellen. Auswahl und Erschließung aus der Sicht der Forschung. (Patients' data as sources. Selection and analysis from the point of view of research) Orig.de. Archivar Vol 44(1991)No 4, c.550-558, 37 refs.

88-56 Indexing In Education

See also 1-312

4-424 Chandler, H.E.: Indexing in and for Europe: a user's perspective. Orig.en. Indexer Vol 18, No 2, 1992. p.92-94, 12 refs. An overview and evaluation of indexes and indexing services that provide access to European Communities information sources is given. It is argued that there is a need for more ces is given. It is argued that there is a need for more cross-references from natural phraseology to a hamionized controlled language; that this controlled vocabulary should be precise, comphrehensible, and should not give rise to semantic dispute; and that the EC should provide the lead in European indexing generally. It is concluded that the growth of English as a teaching medium in Europe will necessitate more provision of English publications, which in turn may afford opportunities for professional indexers. (Author)

88-66

Moys, E.M.: Legal vocabulary and the indexer. Orig.en. Indexer Vol 18, No 2, 1992, p. 75-78, 4 refs.

The article deals mainly with subject indexing of law books which are produced primarily for the use of the legal profession and law students. Vocabulary is specially inportant to lawyers, for whom definitions of words are vital. Lawyers' own terms, many of which are phrasal, must be used in indexes, between the statement of the contractions of the contractions. own terms, many of which are phrasal, must be used in indexes, although different works may require different approaches. The use of the words 'law' and 'legal' is examined, as are the order of words in headings, the use of prepositions and singular or plural forms. Specific rather than classified indexing is nonally preferred. Advice is offered in relation to the indexing of references to legal matters in general books and in books on particular aspects of law for the layman. (Author)

Lehmann, K.: Zur Klassifizierung von Darstellungen über einzelne Familien. (On classing reports on individual families) Orig.de. Bibliotheksinfo Vol 1, 1991. p.455-457

88~92 Bell,H.K.: Should fiction be indexed? The indexability of text. Orig.en. Indexer Vol 18, No 2, 1997. p.83-86, 7 refs. Considers what features of texts make then appropriate or necessary to be supplied with an index, and distinguishes between informational and literary text. Serious fiction is seen as comprising elements of both types of text, and the particular difficulties of indexing it, and the value of indexes the first in a recognishment of the control of the

Laakso, J.; Puukko, O.: Classification of fiction by topic in the light of experiments car led out in two public libraries. Orig.fi. Kirjastotlede ja informatikka Vol 11, No 2, 1992. p.61-65, 10 refs.

Martin, M.M.: Subject indexing in the new "Ethnographic Bi-bliography of North America". Orig.en. Behavioral & Social Sci. Librarian Vol 11, No 1, 1991. p.13-26, 26 refs.

9 CLASSIF ENVIRONMENT

92 Persons and Institutions

dexes to fiction, are considered.

Rayward, W.B.: The legacy of Paul Otlet, pioneer of information science. Orig.en. Australian Libr. J. Vol 41, No 2, 1992. p.90-102, 74 refs.

Reprint of the introduction to the publication "International Organisation and Dissemination of Knowledge: Selected Essays of Paul Otlet". (Translated and edited with an introduction by M.Boyd Rayward). – The Introduction demonstrates the farsightedness of Paul Otlet. Although his lifetime lasted from 1868–1944, he anticipated the revolutionary technological developments of today. The article shows how much he was a forerunner to modern information science.

Dr.Heinz Höhne - 65 Jahre alt. (Commenorating the 65th birthday of Dr.Heinz Höhne) Orig.de. Dialog Blbl. Vol 4, No 3, 1992 p.29-30
H.Höhne had been working in the German Library, Leipzig for some 40 years. He was Department Head of alphabetical and subject cataloguing.

Ranganathan Issue of the Annals of Library Science and Documentation. Ann.Libr.Sci.Doc. Vol 39, No 2, 1992. V,71p.
The "Annals", having been started by S.R.Ranganathan, commemo-

The "Annals", having been started by S.R.Ranganathan, commercate his jubilee year with a number of 8 articles in their second issue of 1992.

4-433 Viswanathan, T.: Reflections on Dr.S.R.Ranganathan's fifth law. - 4-434 Rajan, T.N.: The relevance of Dr.Ranganathan's ideas in the information age. - 4-435 Srivastava, A.P.: Lasting inpact of Ranganathan. - 4-436 Curcharan Singh: With Dr.S.R.Ranganathan on standards for documentation. - 4-437 Kumar, Girja: Creativity in the thought of Dr.S.R.Ranganathan.

4-438 Copinath, M.A.: Ranganathan's approach to knowledge or canization and its impact on modern library and information ganization and its impact on modern library and information systems. — 4-439 Rajalakshmi, V.; Pal, R.: Ranganathan and the Annals. — 4-440 Mishra, S.; Joshi, M.K., Misra, M.K.: Relevance of Ranganathan's contribution in the age of information tech-

11-11111 Sukiasyan, E.R.: Ranganathan and the Soviet Union. Orig.en. Library Science Slant Doc. 29(1992)No 2, p.65-76, 34 refs. Identifies the various features that have led to a culture-based bond between India and the Soviet Union. Presents the various events that have led to the admiration which Dr.S.R. Ranganathan has found in the Soviet Union. Analyzes the contribution of Menganathan and recommends greater attention to wards his seminal contributions to library science and ser-

925 Societies, Research Groups

See also 4-096

Frankfurt/Main: Clearingstelle der Deutschen Bibliotheken, Prankfurt (Main): Clearingstelle der Deutschen Bibliotheken, Prankfurt (Main): Clearinghouse of the German Library for RSMK/SWD-Application in Public Libraries) Orig.de. Bibliotheksdienst Vol 25, No 6, 1991. p.904-905

Kommission des Deutschen Bibliotheksinstituts f.Sacherschlies-sung: Jahresberichte 1990 der Kommissionen des DBI, 12. (Annual Report for 1990 of the Committees of the German Library Insti-tute) Orig.de. Bibliotheksdienst Vol 25, No 5, 1991. p.744-747

Niemeyer, St.: Arbeitskreis Systematik der Staatlichen Beratungsstellen. (Working Group on Classification of the Governmental Consulting Agencies) Orig.de. Die Neue Bücherel, No 5, 1990. p.497-498

ASS.I.TERM - the new Italian Association for Terminology. Urig.en. Int.Classif. Vol 19, No 3, 1992. p.147

926 International Societies and Groups See also 4-398

926 Dahlberg, I.: International Society for Knowledge Organization. Orig.en. Int. Forum Inform. E Doc. Vol 17, No 2, 1992, p.33-35 Reprint in English of the first ISKO brochure, April 12, 1991.

FID/CR Ranganathan Award for Classification Research. Int.Classif. 19(1992)No.3, p.163 The Award was presented to Prof.A.Neelameghan at the occasion of the FID/CR-ISKO Joint Meeting, Madrid, Oct.20, 1992.

93 Organisation on a Natl. & Internatl. Level

See also 4-032, 4-033

Caffo, R.: Indicazzione per soggetto nell'ambito della cooper-azione. (Cooperative subject cataloguing). Orig.it. BOIT.Inform.Assoc.Ital.Bibl. Vol 31, N.S. 1991. p.145-152

(Author)

Rauhut,H.: Einige Thesen zur verbalen Sacherschließung in Kon-stanz. (Some theses on the subject cataloguing in Konstanz) Orlig.de. Bibliothek aktuell, No 58, 1990. p.9-11

95 Education and Training

4-450 Schulz, Ursula: Einführung in die Grundlagen der inhaltlichen Erschließung mit BISMAS am Fachbereich BID der FHS Hannover. (Introduction to subject indexing with BISMAS at the Hannover Polytechnic) Orig.de. ABI-Technik 11(1991)No 4, p.289-296 Library education in subject indexing should include basic principles of automatic indexing and indexing for electronic media. Confinement to formal lectures is sufficient from a di-dactic point of view. BISWAS, a database programme, promises easy handling for beginners and proved well suited for exercises in subject indexing for first year students at the De-partment of Librarianship, Information and Documentation (BID) in Hannover. Examples of steps taken with BISMAS to practice subject indexing.

4-451 Schulz, Ursula: Zur Didaktik der inhaltlichen Erschließung in der Ausbildung von Diplon-Bibliothekaren. (On the teaching methodology of subject indexing in the education of librarians) Orig.de. Bibliothek, Forsch.u.Praxis 16(1992)No 2, p.255-263, 19 refs.

Use of records retrieved from centralized cataloguing services and a new type of catalogue media (OPACs) will cause a lasting change to library subject indexing. Library education will have to respond to these developments. The paper discusses have to respond to these developments, and perpendicular educational objectives, teaching and assessment nethods and an integrated view of the occupation with subject indexing in the perpendicular transfer of the companion of t

Emery, P.C.: Text classification and text analysis in advanced translation teaching. Orig.en. Meta Vol 36, No 4, 1991. p.567-577, 31 refs.

97 Economic Aspects

See also 4-363, 4-421

971 On the financing of information services. ISKO-WC-CA Recommendation for Knowledge Organization, R-02, Oct.1992. Orig.en,de. Int.Classif. Vol 19, No 3, 1992. p.155-158
The second Recommendation of the Working Group on Content Analysis of the International Society for Knowledge Organization (ISKO) treats in five sections the following topics: Introduction. Commercial vs. internal information systems. Storage-intensive vs. retrieval intensive IS. The technology illusion.

The failure of the free-market economy financing model. (German version of this recommendation on p.157-8)

Huvs, H.; Wintrub, M., Martin, N.: Knowledge-based systems development. A methodology for management. Orig.en. Inform. Systems Management Vol 9, No 2, 1992. p.51-56
As more organizations start to consider the benefits of knowledge-based applications, they also experience the gravoth pains of learning how to manage knowledge-based systems projects. This article provides a context for understanding the difficulties unique to a knowledge-based systems development project and describes one methodology that offers solutions to ject and describes one methodology that offers solutions to many of the management problems confronting those responsible for knowledge-based systems development and implementation

Milstead, J.L.: Methodologies for subject analysis in biblio-graphic databases. Origien, TEEE Proceedings, Part A Vol 28, No 3, 1992. p.407-432, 55 refs.

Report on a subject analysis review undertaken to aid managers of databases in determining if new and little-known capabilities would improve the cost-effectiveness of subject analysis operations. Operational machine-aided and automatic indexing systems were found to form a continuum. Commercial automatic indexing packages were also reviewed. The primary obstacle to development of automatic indexing is the lack of machine understanding of natural language, Recommendations for action include: increasing the power of the indexer interface, studying indexing policies, enrichment of thesauri, and considering the development of machine-aided indexing.

98 User Studies

982 Requirements of C&I users

See also 4-294

Armstrong, J.: Knowledge-based systems for users. Enhancing the productivity of help desks. Orig.en. Inform. Systems Management Vol 9, No 1, 1992, p.28-37

Although knowledge-based systems are already assisting help-desk staff in the IS department to solve systems development and similar problems, they have yet to become a fully functional part of user support help desks. The two advisor applications described in this article illustrate how easily these knowledge-based systems can be developed and, even more important, how more productive they can make the help-desk staff and the users themselves.

99 Standardization

See also 4-149, 4-187, 4-279, 4-307, 4-361, 4-367

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