

# Classification Literature 19(1992)No.2 (2-001 - 2-382)

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

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

\*\* Monographs on special topics at special subdivisions.

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

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

Language abbreviations:

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

## 0 FORM DIVISIONS

### 01 Bibliographies

- 2-001 013  
Kumanova, A.V.: Recommended bibliography on bibliography type classifications: Theories of the European CMEA member countries. Orig.ru. Vopr.bibliografoved.i bibliotekoved., No 11, 1990. p.41-58

### 03 Dictionaries, Terminologies

- 2-002 036  
Programming tools of computers: Explanatory terminological dictionary. Orig.ru. Moskva, SU: Izdatel'stvo Standartov 1990. 368 p.  
5000 Russian terms with English equivalents and explanations.
- 2-003 036  
Borkovsky, A.B.: English-Russian Dictionary of Computers and Programming (with explanations). Orig.ru. Moskva, SU: Russkij Yazik 1989. 335p.  
Approx. 6 000 terms.
- 2-004 032  
Bies, W.: Book review of Keitz, S.v., Keitz, W.: Dictionary of Library and Information Science. English/German, German/English. Weinheim: VCH 1989. 408p. Orig. de.  
Lebende Sprachen, No 3, 1991. p.137
- 2-005 036  
Pershikov, V.I.; Savinkov, V.M.: Explanatory dictionary of informatics. Orig. ru.  
Moskva, SU: Finansy i Statistika 1991. 543p.  
More than 10 000 Russian terms with English equivalents and explanations. Index of English terms, p.454-536.
- 2-006 036  
Machovec, G.S.: Telecommunications and networking glossary. Orig.en. Chicago, IL: Amer.Lib. Assoc., Libr. & Inform. Technol. Assoc. (LITA) 1990. 63p., refs., LITA Guides 3  
Provides brief non-technical definitions of telecommunication and networking terms and acronyms frequently appearing in library automation and computer literature. Selective bibliography for further information.

### 04 Classification Systems & Thesauri

#### 041 General Classification Systems and Thesauri

- 2-007 0448  
Revised Library of Congress Subject Headings: Cross-references from former to current subject headings, first edition. Washington, DC: Library of Congress 1991. 352p., NITS PB91-220459/HQW.

#### 048- Special Classification Systems and Thesauri

- 2-009 048-35; -376  
Belke, F.: Thesaurus Gas/Wasser. Grundwerk. Stand: 31.3.1991. (Thesaurus gas/water. Basic publication. Date 31st March 1991) Orig.de. Bonn, DE: Bundesverband d.dt.Gas- u.Wasserwirtschaft 1991. 531p.  
Comprises almost 3000 descriptors and 2500 non-descriptors arranged in systematic and alphabetical order. A survey of the subject groups is provided as well as further introductions concerning notation, thesaurus fields, etc.
- 2-010 048-51/4  
WHO: A proposed Standard International Acupuncture Nomenclature. Report of a WHO Scientific Group. Geneva: World Health Organization 1991. VI, 30p. ISBN 92-4-154417-1  
Record of the consensus reached by a group of 12 experts commissioned to develop a standard international nomenclature for the identification of meridians, points, and lines used in acupuncture. Under development since 1981.
- 2-011 048-542  
Lorenz, R.; Schmitt, H.P.; Wagner, G.; Arelung, F. (Eds.): Traumatologie - Standardisierte Nomenklatur der traumatisch bedingten Verletzungen und Schädigungen des Nervensystems. (Neuro-traumatology - Standardized nomenclature of traumatically caused injuries and damages of the nervous system) Orig.de. Berlin-Heidelberg: Springer 1990. 288p., ISBN 3-540-52136-4  
Contains about 250 concepts with their preferred terms in German, their corresponding terms in French and English, their synonyms and short and precise definitions, often accompanied by statements on etiology, therapy, prognosis and references to related concepts.

- 2-012 048-56  
Roulin, C.: Toward the European education metathesaurus. Orig.en. Brussels, BE: EURADICE European Unit/ERIC 1990. 118p., ED 331 478/HQW

The European Education Metathesaurus is the set made up of the European Education Thesaurus (the 3rd ed. of the EUDISE Thesaurus) and the indexing languages that will be attached to it whether sub-thesauri, specialized vocabularies, co-thesauri, or national vocabularies.

- 2-013 048-657  
Thesaurus für wirtschaftliche und soziale Entwicklung. 1: Alphabetischer Teil, 2: Strukturierter Teil, 3: Register-Teil. en-de, fr-de, es-de. Bonn, DE: Deutsche Stiftung für Internationale Entwicklung 1991. 34p. ISBN 3-924441-51-0.

- 2-014 048-668  
Schwietzke, J.: Die neue Systematik für das Recht der Europäischen Gemeinschaften (EG) des Max-Planck-Instituts für Völkerrecht (Heidelberg). (The new classification system for European Community law of the Max-Planck-Institut für Völkerrecht) Orig.de. Recht - Bibliothek - Dokumentation 21(1991)No 3, 1991. p.157-176

- 2-015 048-69  
Dokumentationsstelle für unkonventionelle Literatur: Standard-schlagwortliste. (Authority list of the documentation center for unconventional literature) Orig.de. Stuttgart: Bibliothek für Zeitgeschichte 1991.  
Contains 4 041 entries, including references. There is a list for subject terms, event terms, corporate and personal names.

- 2-016a 048-92  
Rix, I.; Arb.Gruppe "Erschließung der Belletristik" (Comp.): Thematischer Katalog der Belletristik: Gliederungen u. Erläuterungen. (Thematic catalog of belles lettres: Outline and explanations) 3rd rev.ed. Berlin: Zentralinst.f.Bibliothekswesen 1991. 44p.

- 2-016b 048-92  
Maschke, U. (Comp.); Arb.Gruppe "Erschließung von Kinderliteratur": Thematischer Katalog der Belletristik - Kinderliteratur. 2.veränd.Auffl. (Thematic catalogue of belles lettres - books for children, 2nd rev.ed.) Orig.de. Berlin, DE: Zentralinst.f.Bibliothekswesen 1991. 41p.

- 2-017 048-93  
Bauer, G.: (Book review of) Harrold, A., Lea, G.: MUSAURUS: A music thesaurus. A new approach to organizing music information. London: Music Press 1991. 128p. Orig.en. Int.Classif. Vol 19, No 1, 1992. p.39, 4 refs.

### 06 Conference Reports, Proceedings

See also 2-295, 2-303

- 2-018 06.89-06-20/21  
International Conference on Library Classification and its functions, Edmonton, Canada, June 20-21, 1989. Edmonton, Alberta, 1989. VIIff, 188p.
- 2-019 Nitecki, A.: An introduction to contemporary classificatory thought. - 2-020 Fell, T.: The bibliothecal function of classification. - 2-021 Svenonius, E.: Bibliographical classification. - 2-022 Dykstra, M.: Canada's role in bridging the North American/European approach to classification. - 2-023 Comaroni, J.P.: Comparison of major classification schemes. - 2-024 Rees-Potter, L.: Concept relationships in dynamic thesauri: Research into thesaurus construction. - 2-025 Craven, T.C.: Cognitive function of classification: The role of library classification in thesaurus construction. - 2-026 Salton, G.; Araya J.: On the use of clustered file organization in information search and retrieval. - 2-027 Wilson, C.R.: The exportability/transfer of classification: Some anthropological perspectives.
- 2-028 06.89-10-5/6  
Vogeler, H.: (Book review of) Stephan, W. (Ed.): Die Schlagwortnormdatei. Entwicklungstand und Nutzungsmöglichkeiten. Vorträge eines Kolloquiums... Frankfurt, 5.-6.Okt.1989. Berlin: IBI 1990. 179p. (Cooperative Subject Indexing, a Colloquy) Orig.de. Z.Bibl.wes.u.Bibliogr. Vol 38, No 4, 1991. p.386-388
- 2-029 06.90-08-14/17  
Jones, Kevin: (Book review of) Tools for Knowledge Organization and the Human Interface. Proc.1st Int. ISKO Conference, Darmstadt, 14-17 Aug.1990. Frankfurt: INDEKS Verl.1990/91. 2 vols. = Adv.in Knowledge Org., 1 & 2. Indexer 18(1992)No 1, p.66-67
- 2-030 06.90-08-14/17  
Sukiasyan, E.R.: Sredstva organizatsii znaniy i chelovecheskogo vzaïmdeystviya". Pervaya Mezhdunarodnaya Konferentsiya ISKO, Darmstadt, FRG, 14-17 Avg.1990 g. (Tools for Knowledge Organization and the Human Interface. First International ISKO Conference, Darmstadt, 14-17 Aug.1990) Orig.ru. Bibliotekovedenie i Bibliografiya za Rubezhan, No 131, 1991. p.66-72

- 2-031 06.91-02-21/22; 156  
Birk, A.; Reinartz, Th.: Erster gemeinsamer Workshop der GI-Fachgruppen "Knowledge Engineering und Kognition". (First common workshop of the GI-Committees on Knowledge Engineering and Cognition) Orig.de. Künstl.Intelligenz Vol 5, 1991, No.2, p.46  
The workshop took place on 21-22 Febr.1991 at the Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI) in Kaiserslautern.
- 2-032 06.91-02-25/27  
Goebel, H.; Schader, M. (Eds.): Datenanalyse, Klassifikation und Informationsverarbeitung. Methoden und Anwendungen in verschiedenen Fachgebieten. (Data analysis, classification and information processing) Orig.de. Heidelberg, BE: Physica-Verlag 1992, 284p., ISBN 3-7908-0612-9  
Contains the 23 German language contributions of the 15th Annual Conference of the Gesellschaft für Klassifikation e.V., Salzburg 25-27 Febr. 1991 and one contribution in addition (by P.Simons) at a request of the editor.
- 2-033 Hafner, J.: Klassifikation aus wissenschaftstheoretischer Perspektive. - 2-034 Hohenegger, J.: Die Art als basales Element des Systems der Organismen. Ein Klassifikationsproblem. - 2-035 Simons, P.: Philosophische Aspekte der Klassifikation. - 2-036 Figge, U.L.: Zwei Grundprinzipien der Wortschatzklassifikation. - 2-037 Kauffer, M.: Sprachliche Klassifikation und Analyse von Nominalkomposita in Speisebezeichnungen anhand informatischer und statistischer Methoden. - 2-038 Kristophson, J.: Einsatz numerischer Verfahren für Textüberlieferungsprobleme. - 2-039 Philipp, M.; Leveigue, G., Leveigue-Colas, E.: Sprachgeographische Datenanalyse im germanophonen Lothringen. - 2-040 Stadler, P.: SERION - Programmpaket zur chronologischen und chorologischen Auswertung archäologischer Daten. - 2-041 Zelger, J.: Nichtreduktive Darstellung und Analyse von Netzungs-Netzen mit PC-Unterstützung. - 2-042 Gerß, W.: Beispiele zur Klassifikation avifaunistischer Daten. - 2-043 Nagel, M.; Höring, H.; Wernecke, K.-D.: Kartographie und hochinteraktive Datenanalyse. Ein Konzept. - 2-044 Schuler, M.: Stadtregionen und Agglomerationen: Die Vielfalt statistischer Definitionen von urbanen Räumen in Europa. - 2-045 Todorov, R.; Winterhager, M.: Konstruktion von Beziehungen zwischen Klassifikationsklassen: Ein quantitativer Ansatz. - 2-046 Scholl, C.: Wahrscheinlichkeit, Statistik und Recht. - 2-047 Havelkost, H.: Drehscheibe ISBN: Weg zum internationalen Fachwörterbuch. - 2-048 Lorenz, B.: Sacherschließung von Literatur durch Stichwortsuche im OPAC? - 2-049 Preuss, L.: TAXIS - Ein elektronischer Bibliotheks-Katalog. - 2-050 Volk, M.; Mittemaier, H., Schürig, A., Biedassek, T.: Halbautomatische Volltextanalyse, Datenbankaufbau und Document Retrieval. - 2-051 Kessing, O.: Dynamisierung strategischer Planungsinstrumente mit Hilfe multimodaler Analysemodelle. - 2-052 Nollau, H.-G.: Die Integration der Zeitreihenanalyse in Management-Entscheidungssystemen unter Berücksichtigung software-ergonomischer Entwurfs- und Bewertungskriterien. - 2-053 Steckner, C.: Designanalyse und Packungsoptimierung. - 2-054 Fischer, R.-J.: Untersuchungen zur Selektivität formal erzeugter Deskriptoren bei der halbautomatischen Klassifizierung medizinischer Texte. - 2-055 Grimm, J.: Die Repräsentationsanalyse - ein neuer Weg zur Strukturierung von Variablen oder Objekten. - 2-056 Wernecke, K.-D.: Ein Diskriminationsverfahren für gemischte Datensätze.
- 2-057 06.91-03-26/28; 124  
Baader, F.; Kobsa, A., Profitlich, H.-J.: AAAI'91 Spring Symposium: Implemented Knowledge Representation and Reasoning Systems. Orig.de. Künstl.Intelligenz 5(1991)No 3, p.24-25, 1 ref.  
The Symposium took place from 26-28 March 1991 at Stanford University. Report on results.
- 2-058 06.91-04-22/25; 124  
Holunder, B.; Nebel, B.: Second International Conference: Principles of Knowledge Representation and Reasoning - KR'91. Orig.de. Künstl.Intelligenz Vol 5, No 3, 1991, p.26-27  
The first conference took place at Toronto in 1989, this 2nd one in Cambridge, Mass., April 22-25, 1991 with some 180 participants. 200 papers had been received, 50 were selected for presentation.
- 2-059 06.91-05-14/16; 78-4  
Problems of Access to Standardized Biological Terminology  
Meth.Inform.Med. 30(1991)No.4, p.322  
Report on a Workshop in Nancy, May 14-16 1991, held by the COMATA Commission on Standardized Terminology for Access to Biological Data. It was proposed to create an international Term Bank available to the international scientific community.
- 2-060 06.91-07-1/3  
Kulaś, Maria: International Workshop - FDI'91, Processing Declarative Knowledge. Representation and Implementation Methods Orig.de. Künstl.Intelligenz Vol 5, No 3, 1991, p.32-33
- 2-061 06.91-07-22/24  
Hoppe, Th.: European Workshop on the Verification and Validation of Knowledge-based Systems. Orig.de. Künstl.Intelligenz Vol 5, No 4, 1991, p.24-25  
The workshop took place at Jesus College in Cambridge, England, 22-24 July 1991.
- 2-062 06.91-08-21; 925  
Williamson, N.: IFLA Section on Classification and Indexing. Orig.en. Int.Classif. Vol 19, No 1, 1992, p.32  
Short report on activities and the Section meeting during the IFLA Conference at Moscow, Aug.1991.
- 2-063 06.91-09-16/20  
Winckmann, K.: Wissensbasiertes Retrieval in großen Datenbanken. Workshop 7 der OAI'91. (Knowledge-based retrieval in large databases) Orig.de. Künstl.Intelligenz Vol 5, No 4, 1991, p.26-28, 9 refs.
- 2-064 06.91-09-28/29  
Stoberski, Z.: 3rd IOU/N/WBIT Congress. Orig.en. Int.Classif. Vol 19, No 1, 1992, p.26  
IOU/N = International Organization for Unification of Terminological Nomenclatures, WBIT = Work Bank of International Terms. The Congress took place at Warsaw, Sept.28-29, 1991.
- 2-065 06.91-10-01  
Ohly, H.P.: Wissensrepräsentation nicht nur technisch gesehen. (Knowledge representation, seen not only under a technical point of view) Orig.de. Nachr.Dok. 43(1992)No 2, p.112-113  
Report on the Session of the ICA-Committee "Knowledge Processing, Artificial Intelligence and Information Science" during the Conference of the German Documentation Society, Ulm 1991.
- 2-066 06.91-10-3; 925.77  
Meeting of ISO/TC37/SC1 "Principles of Terminology". Int.Classif. 19(1992)No.1, p.25
- 2-067 06.91-10-13/16  
Fuhr, N.: SIGIR'91. 14.ACM/SIGIR Conference in Chicago. Orig.de. Nachr.Dok. Vol 43, No 2, 1992, p.115-117  
Report on the ACM/SIGIR Conference on Research and Development in Information Retrieval, 13-16 Oct.1991, Chicago. More than 200 participants discussed 32 selected contributions.
- 2-068 06.91-10-15/18  
Gödert, W.; Jaenecke, P., Schmitz-Esser, W. (Eds.): Kognitive Ansätze zum Ordnen und Darstellen von Wissen. 2.Tagung der Deutschen ISKO-Sektion, mit den Vorträgen des Workshops "Thesauri als Werkzeuge der Sprachtechnologie". Weilburg, 15.-18.Okt. 1991. Orig.de & en. Frankfurt/Main: INDEKS 1992. VIII,344p. = Fortschritte in der Wissensorganisation, Bd.2.  
The volume contains selected papers of this conference in the following topical areas: Origin and development of intelligence and knowledge. Cognitive approaches. Order and recognition. Knowledge organization in application areas. Subject analysis. Education. Thesauri as tools of language technology. A name and subject index concludes the volume.
- 2-069 Umstätter, W.: Die evolutionsstrategische Entstehung von Wissen. - 2-070 Jaenecke, P.: Über den Ursprung von Intelligenz. - 2-071 Shrejder, J.A.: The cognitive approach: A tool to resolve the opposition between technical and cultural aspects of knowledge. - 2-072 Löckenhoff, H.: Zur kreativen Bewältigung von Komplexität in der Wissensordnung. - 2-073 Rahnstorf, G.: Semiotische Aspekte der visuellen Wahrnehmung. - 2-074 Ohly, H.P.: Informationeller Qualitätssprung durch Wissensbasierung? - 2-075 Jaenecke, P.: Was ist ein neuronales Netz? - 2-076 Dahlberg, I.: Gestaltungsprinzipien und Anforderungskatalog für ein neues universales Ordnungssystem des Wissens. - 2-077 Greiner, G.: Ordnung ist (nur) das halbe Leben. - 2-078 Hunger, A.; Retz, H.: Datenmodelle und deren grafische Repräsentation. - 2-079 Schopen, M.: Strukturierte Suche mit GRIPS-Menu in den Datenbanken des Deutschen Instituts für medizinische Dokumentation und Information, DIMDI. - 2-080 Zoller, P.: Die wohl durchdachte Aufbereitung des Informationsangebotes, Teil einer computergestützten Sachbearbeitung. - 2-081 Lorenz, B.: Klassifikation im Bibliotheksverbund: Das Beispiel der Regensburger Aufstellungssystematiken. - 2-082 Nedess, Ch.; Borrmann, H.P.: Strukturierung und Verarbeitung von industriellen Erfahrungswissen zur Fehlervermeidung durch das System "AbDok". - 2-083 Czap, H.: Informationsverarbeitung bei Homonymie und Synonymie der Unternehmensdaten. - 2-084 Vischer, J.: Technische Dokumentation. - 2-085 Mater, E.: Zur Abhängigkeit der Ergebnisse maschineller Indexierung vom verwendeten Begriffssystem. - 2-086 Bies, W.: Linguistische Pragmatik - eine vernachlässigte Referenzdisziplin in der Inhalterschließung. - 2-087 Riplinger, Th.: Syntaktische Indexierung und Verarbeitungsverfahren, Zukunft der Eppelsheimer Methode. - 2-088 Domkos, M.: How and what to teach about classification to students of library science. - 2-089 Nohr, H.; Puhlmann, H.: Ausbildung im Fach Inhalterschließung vor verändertem technischen Hintergrund. - 2-090 Meder, N.: Aus- und Weiterbildungsfragen im Kontext von Wissensorganisation. - 2-091 Schmitz-Esser, W.: Neue Anwendungsgebiete für Thesauri. - 2-092 Kracker, M.: Vom Nutzen unscharfen Begriffswissens. Fuzzy Thesauri für die Unterstützung der Formulierung von Anfragen und Faktendatenbanken. - 2-093 Sarre, F.; Gintzer, U., Myka, A., Jüttner, G.: Maschinelles Lernen von Relationen für Thesauri und Hypertext. - 2-094 Sechser, O.: Beziehungen im Sprachsystem und in Texten. - 2-095 Zimmetmann, H.: Wortrelationierung in der Sprachtechnik - Stillehilfen, Retrievalhilfen, Übersetzungshilfen. - 2-096 Luckhardt, H.-D.: Klassifikationen und Thesauri für automati-

sche Terminologieunterstützung, Maschinelle Übersetzung und computergestützte Übersetzung. - 2-097 Zimmermann, H.: Anmerkungen zur Neugestaltung der DIN 1463 (Thesauri). - 2-098 Schnitz-Esser, W.: Ergebnis des Workshops.

2-099 06.91-10-16/18  
Bies, W.; Ohly, H.P.: Cognitive approaches to the ordering and presentation of knowledge: 2nd Conference of the German Chapter of ISKO, Weiburg, 16-18 Oct. 1991. Orig.en. Int.Classif. Vol 19, No 1, 1992, p.28-30  
Slightly revised version of the report in German following (2-100).

2-100 06.91-10-16/18  
Bies, W.; Ohly, H.P.: Kognitive Ansätze zum Ordnen und Darstellen von Wissen. Orig.de. Nachr.Dok. 43(1992)No 2, p.113-115  
Report on the 2nd Conference of the German Chapter of the International Society for Knowledge Organization, ISKO, Weiburg 16-18 Oct.1991. (see also 2-068-)

2-101 06.91-10-27/31  
Williamson, N.: ASIS/SIG/CR. Orig.en. Int.Classif. Vol 19, No 1, 1992, p.30-31  
Report on the SIG/CR sessions at the 1991 Annual Meeting of ASIS in Washington, DC, Oct.27-31, 1991.

2-102 06.91-11-4/7  
Herget, J.; Rittberger, M.: Wissensbasierte Informationssysteme und Informationsmanagement. 7. Internationales Kolloquium für Information und Dokumentation in Verbindung mit ISI'91. Orig.de. Nachr.Dok. Vol 43, No 2, 1992, p.119-121

2-103 06.91-11-07  
C.I.G.S. Cataloguing and Indexing Group in Scotland. Fourth IFAC Forum.  
Cat. & Index (1991)No. 101-102, p.9

## 07 Textbooks

2-104 07.3  
Thiele, R.: Ein Lehrbuch für die Klassifikationstheorie? (A textbook for classification theory?) Orig.de. Mitt.Bi.Bibl. NRW Vol 42, No 1, 1992, p.2-14, 54 refs.  
A review article assessing the qualities of Brian Buchanan's "Theory of library classification." London 1979, of which a German translation has been published by K.G.Saur Verlag, München as "Bibliothekarische Klassifikationstheorie" in 1989.

## 08 Other Monographs

2-105 08.3  
Bakewell, K.G.B.: (Book review of) Meadows, A.J. (Ed.): Knowledge and communication: Essays on the information chain. London: Libr.Assoc. 1991. IX, 164p. Orig.en. Indexer 18(1992)No 1, p.65

2-106 08.3  
Satija, M.P.: (Book review of) Meadows, A.H. (Ed.): Knowledge and communication: Essays on the information chain. London: Libr.Assoc. 1991. IX, 164p. Orig.en. Int.Classif. Vol 19, No 1, 1992, p.39-41, 2 refs.

2-107 08.387  
Teufel, B.: Organization of Programming Languages. Wien-New York: Springer-Verl. 1991. XI, 207p., ISBN 3-211-82315-8  
The book is about high-level programming languages, introducing the basic concepts that underlie various programming languages. Three major approaches to the description of semantics in programming languages are briefly introduced. Examples are given from ADA, PASCAL, MODULA-2, Oberon, C++, SIMULA 67, SMALLTALK-80 and Eiffel.

2-108 08.711  
Harter, S.P.: (Book review of) Blair, D.C.: Language and representation in information retrieval. Amsterdam: Elsevier Science Publ. 1990. X, 335p. Orig.en. Libr.Quarterly Vol 61, No 2, 1991, p.221-223

2-109 08.715  
Raggett, J.; Bains, W.: Artificial intelligence from A to Z. Orig.en. London, GB: Chapman & Hall 1992. 256p.  
Introduction to the key issues in AI and associated topics.

2-110 08.756  
Chamis, A.Y.: Vocabulary Control and Search Strategies in On-Line Searching. Orig.en. Westport, CT: Greenwood Press 1991. 136p., ISBN 0-313-25490-7

2-111 08.714  
Nöth, W.: Handbook of Semiotics. Orig.en. Bloomington, IN: Indiana University Press 1990. 576p., ISBN 0-253-34120-5

2-112 08.714  
Deely, J.: Basics of Semiotics. Orig.en. Bloomington, IN: Indiana University Press 1990. 149p., ISBN 0-253-31676-6

2-212a Book review of 2-211 and 2-212 by David C.Blair in Library Quarterly 61(1991)No.2, p.367-368

## 09 Standards, Guidelines

2-113 09.23d  
SIBID. Multilingual information retrieval thesaurus: Composition, structure, and main design criteria. Orig.ru. Moskva: COST 1990. = COST 7.24-90

# 1 THEORETICAL FOUNDATIONS

## 12 Conceptology in Classification

2-114 121  
Bealer, G.: A solution to Frege's puzzle. Orig. en. TA Informations, No 2, 1990, p.7-38, 83 refs.  
The paper (a reprint of Philosophical Perspectives) presents a new approach to a family of logical and semantic puzzles. What is needed to solve the puzzles is an enriched theory of propositions and their logical form. An algebraic theory introduced allows for hyper-fine-grained intensional distinctions based on differences in logical form, it leads to a new understanding of the theory of predication implicit in Frege's theory of senses and allows to incorporate non-Platonic modes of presentation. By this elusive non-descriptive, non-metalinguistic propositions, responsible for the puzzles can be identified. (Author, abbr.)

2-115 122  
Gomez, F.; Segami, C.: Classification-based reasoning. Orig.en. IEEE Transactions on Systems, Man & Cybernetics Vol 21, No 3, 1991, p.644-659, 12 refs.  
The ideas explained have been implemented and are part of the information retrieval component of Snowy, a program that understands scientific paragraphs. The appendix contains a brief session with this program.

124 Knowledge Representation  
See also 2-057, -058, -065, -141

2-116 124  
Kerke, Ch.: Die Darstellung von ungenauen Wissen in taxonomischen Wissensbasen. (The representation of fuzzy knowledge in taxonomic knowledge bases) Orig.de. Künstl.Intelligenz Vol 5, No 2, 1991, p.12-19, 79 refs.

## 13 Mathematics in Classification

2-117 133  
Leuschner, D.: A mathematical model for classification and identification. Orig.en. J.Classif. Vol 8, No 1, 1991, p.99-113, 18 refs.

2-118 134  
Abel, D.J.; Mark, D.M.: A comparative analysis of some two-dimensional orderings. Orig.en. Int.J.Geogr.Inform.Syst. Vol 4, No 1, 1990, p.21-31, 24 refs.  
The relative merits of five orderings (row, row prime, Hilbert, Morton and Gray code) are assessed empirically for four paradigmatic geographic DP tasks in spatial analysis and data management. It is concluded that the Hilbert ordering deserves further investigation. (Author, abbr.)

2-119 135; 143  
Nazareth, D.L.; Kennedy, M.H.: Verification of rule-based knowledge using directed graphs. Orig.en. Knowledge Acquisition Vol 3, 1991, p.339-360, 24 refs.

2-120a 136  
Egge, L.; Rousseau, R.: Introduction to informetrics: Quantitative methods in library, documentation and information science. Amsterdam: Elsevier Science Publ. 1990. XII, 450p.

2-120b Book review of 2-120a by J.Tague in Libr.Quart. 61(1991) No 2, p.220-221

2-121a 138-4  
Bienenstock, E., Fogelman Soulié, F., Weisbuch, G. (Eds.): Disordered systems and biological organization. Berlin-Heidelberg, etc.: Springer-Verl. 1986. XXI, 405p.  
The aim of the NATO Workshop in Les Houches, March 1985, on Disordered Systems and Biological Organization was to analyze disorder in complex biological systems with local interactions. The 40 papers are arranged under the following 5 headings: Autotata Theory, Physical Disordered Systems, Formal Neural Networks, Combinatorial Optimization, Models of Biological Organization.

2-121b Book review of 2-121a by P.Tautu in Meth.Inform.Med. Vol 30, No 3, 1991, p.232

2-122 139  
Wright, M.H.: Book review of Ratschek, H., Rokne, J.: *New computer methods for global optimization*. Wiley 1988. 236p.  
Orig.en. J. Classif. Vol 8, No 1, 1991. p.129-131  
The reviewer states: "the best features of this book are its detailed presentation of definitions and theory about interval analysis, and the description and motivation of several interval-based global unconstrained and constrained optimization methods. The authors include numerous examples that illustrate the definitions, and take pains to clarify the less obvious parts of the methods described."

## 14 Systems Theory in Classification

See also 2-119 (for 143)

2-123 142  
Fivaz, R.: *Thermodynamics of complexity*. Orig.en. Systems Research Vol 9, No 1, 1991. p.19-32

2-124 142  
MacDonald, B.A.: *Instructable systems*. Orig.en. Knowledge Acquisition Vol 3, 1991. p.381-420, 57 refs.  
Systems need to be instructable, to provide end-users with the opportunity to automate repetitive tasks. Instructable systems - both real robots and metaphorical agents - must acquire skills and knowledge from examples and other instructions easily given by users in factories, laboratories and offices. The instructability of a system includes its predisposition to human instructions, the classes of task the system can learn and the speed of learning. The human interface must exploit the user's natural instructional abilities and require minimal acquisition of expertise prior to teaching. (Author, abbr.)

2-125 143  
Auger, P.M.: *Self-organization in hierarchically organized systems*. Orig.en. Systems Research 7(1990)No 4, p.221-36, 39 refs.  
The aim of this paper is to show that the couplings between the hierarchical levels of a system which are divided into two contributions, bottom-top and top-bottom lead to self-organization processes and also to show that systems have a spontaneous tendency to self-organize in a hierarchical manner. It is concluded that the entropy of a hierarchically organized system can be larger than the entropy of a non-hierarchical one.

2-126 146  
Engelberg, J.: *An integrative study*. Orig.en. Systems Research Vol 9, No 1, 1991. p.5-17  
Integrative study contemplates principles of integration revealed by life at its many hierarchic levels.

2-127 147  
Iyer, Hemalatha: *Subject representation and entropy*. Orig.en. Int.Classif. Vol 19, No 1, 1992. p.15-18, 14 refs.

2-128 148-722  
Löckenhoff, H.: Book review of Fisch, R., Boos, M. (Eds.): *Vom Umgang mit Komplexität in Organisationen*. Konstanz: Univ. Verlag 1990. (Concerning the handling of complexity in organizations) Orig.en. Int.Classif. Vol 19, No 1, 1992. p.42-43

## 15 Psychology and Classification

2-130 153; 72  
Badalamenti, A.F.: *Language and the intuition of meaning*. Orig.en. Systems Research Vol 8, No 4, 1991. p.43-66, 28 refs.  
Proposed concepts on the nature language and the intuition of meaning are presented using existential and mathematical primitives. Topologically exact results are given for the structure of human memory, for the inner nature of a meaning and for some of the psychic principles which give rise to language. These results follow from a linguistic model which so defines a verb that all other linguistic elements become special cases of it. Both the topological and clinical results on the emergence of language and the perception of meaning support this position. Some results are also given on the structure and formation of non-verbal meaning. (Author)

2-131 153  
Nishanov, V.K.: *The understanding phenomenon: A cognitive analysis*. Orig.ru. Frunze: Ilim 1990. 227p.  
Reasons behind a number of failures in developing a general theory of understanding are pointed at; the phenomenon of understanding in human communication and cognition is analysed.

2-132 153  
Parakhonskij, B.A. (Ed.): *Logic, psychology and semiotics: Interaction dimensions*. Collected works. Orig. ru. Kiev, SU: Nauk. Dumka 1990. 160p.

2-133 154  
Wrobel, St.: *Die Umweltverankerung von Begriffsbildungsprozessen*. (The impact of an environmental on concept formation processes) Künstl. Intelligenz 5(1991)No 1, p.22-26, 39 refs.

## 156 Knowledge Acquisition

See also 2-031

2-134a 156  
Doerr, H.: (Book review of) Fetzer, J.H. (Ed.): *Epistemology and Cognition*. Dordrecht, NL: Kluwer Academic Publ. 1991. XIII, 301p. (Studies in Cognitive Systems, Vol. 6.) Orig.en. SIGART Bull. Vol. 3, No. 1, 1992. p. 27-29, 6 refs.  
This is a collection of papers which appeared originally in Synthese (1990) Nos. 82 and 83.

2-134b 156  
Gavrilova, T.A.: *What is the difference between knowledge elicitation and knowledge acquisition?* Orig.ru. Uch. Zap. Tart. Gos. Universiteta, No 903, 1990. p.37-44, 7 refs.  
Definition of the concepts 'knowledge elicitation' and 'knowledge acquisition'. Methods used in knowledge elicitation are listed and some of them described.

2-135 156  
Kapus, T.: *Knowledge in distributed systems*. (Orig. Slovenic) Informatica Vol 14, No 3, 1990. p.63-71

## 157 Computerization of Thought Processes

2-136 157  
Gebhardt, F.: *Choosing among competing generalizations*. Orig.en. Knowledge Acquisition Vol 3, 1991. p.361-80, 17 refs.  
The user is less interested in all the "best" partial generalizations (according to a given criterion) if they are quite similar rather than in some diverse ones, even if they are, taken individually, less satisfactory. This vague goal concept is made more precise and a procedure is developed and examined that employs two notions: a measure for the quality of a single generalization (called evidence) and an asymmetric measure for the similarity of two generalizations (called affinity). These two co-operate in suppressing generalizations that are worse than, but not too different from, another generalization. The selection procedure works satisfactorily in different environments. (Author, abbr.)

## 16 Development of Science and Classification

2-137 162  
Pierce, S.J.: *Subject areas, disciplines, and the concept of authority*. Orig.en. Libr. & Inform. Sci. Research Vol 13, 1991. p.21-35  
Because evaluations of "authority" normally depend on reputations in academic circles, the use of authority in evaluating information sources requires some appreciation of the nature and limitations of relevant authority structures. A review of relevant literature demonstrated that boundaries of the subject-specific areas within which authority is established parallel those of academic disciplines. ... Authoritative sources, are likely to be available only for information of disciplinary interest, and present views of subjects that are as partial as those of the disciplines from which their authority is derived. (Author, abbr.)

2-138 162  
Serov, V.P.; Kozlova, I.V.: *Modelling the thematic structure of subject fields*. Orig.ru. Nauch.-tekh. Inform., Ser. 2, No 7, 1990. p.22-26, 12 refs.  
Describes an approach to the modelling and construction of subject field thematic structures which depends on the analysis of problem-oriented databases. Presents a stochastic statistical model of index terms relations within a database.  
Describes the procedure of analysis of problem-oriented databases to generate thematic structures. (Author, transl.)

## 17 Problems in Classification

See also 2-229, 2-238

2-139 173  
Kintaert, B.: *Frauendokumentation*. (Woman documentation) Orig. de. Mitt. Verb. Österr. Bibl. Vol 44, No 1, 1991. p.36-45  
Gives a number of hints as to what should be included in subject cataloguing in order to comply with the necessity to consider the female sex in the wording of terms/subject headings.

2-140 175  
Fidel, R.: *Who needs controlled vocabulary?* Orig.en. Spec. Libraries Vol 83, No 1, 1992. p.1-9, 6 refs.  
A study of online searching practices observed 47 professional searchers working in different types of libraries and specializing in a variety of subject areas. Their thought processes were verbalized and taped. The study proved the importance of a controlled vocabulary in searching. The important role of thesauri and indexing is demonstrated as searchers consulted thesauri for 75% of the search terms selected. Almost half the times a descriptor was selected, it matched the request term exactly. The study also suggested that searchers who preferred

textwords did not compensate for the lack of vocabulary control by using synonyms. It is concluded that this study shows that both textwords and descriptors are necessary for quality searching.

179 Trends and Future Tasks in C & I  
See also 2-225, -226, -237, -330

## 2 STRUCTURE AND CONSTRUCTION OF CS & T

### 21 General questions of CS & T

- 2-141 211  
Sergievskij, G.M.: On one approach to defining the semantics of knowledge representation languages. Orig.ru. In: Avtometrič. Inform. tehnol. Moskva, SU 1990, p.49-55, 11 refs.
- 2-142 211  
Simonov, B.A.: Once again on subject headings language. Orig.ru. Nauch.-tehn.biblioteki SSSR, No 5, 1990, p.28-30, 5 refs.
- 2-143 213  
Schmidt, Alfred: (Book review of) Kooperative Führung einer Schlagwortnormdatei. Fortführung der Schlagwortnormdatei (SWD). Bericht über ein Projekt der Deutschen Forschungsgemeinschaft. Berlin: DBI 1991. 40p. (Cooperative management of a standard subject file. Report on a project of the German Research Association) Orig.de. Mitt.VGB Vol 44, No 3-4, 1991, p.95-96
- 2-144 218-825  
Travis, I.L.: Applications of knowledge-based systems to classification in libraries. Orig.en. In: Aluri, R., Riggs, D.E. (Eds.); Expert systems in libraries. Norwood, NJ: Ablex 1990, p.222-293, 53 refs.  
The author underscores the urgency of using expert systems' techniques in classification.

### 22 Elements of CS & T

See also 2-245, -321, -322

- 2-145 222  
Wong, S.K.M.; Yao, Y.Y.: An information-theoretic measure of term specificity. Orig.en. J.Amer.Soc.Inform.Sci. Vol 43, No 1 1992, p.54-61
- 2-146 225  
Kovacova, S.: Use of facet models and semantic frames in developing an indexing language for a data retrieval system. Orig.sk. Kniz.a ved.inform. Vol 22, No 4, 1990, p.145-149, 8 refs.
- 2-147 225, 934 RU  
Sukiasyan, E.: The ideas of S.R.Ranganathan in Russia: Results and tendencies. Int.Classif. 19(1992)No 1, p.7-9, 5 refs.
- 2-148 226  
Kuijper, M.; Schumacher, J.M.: Minimality of descriptor representations under external equivalences. Orig.en. Automatica Vol 27, No 6, 1991, p.975-984, 15 refs.
- 2-149 229  
Melby, A.: MicroMater, A proposed standard format for exchanging lexical/terminological data files. Orig.en. Meta Vol 36, No 1, 1991, p.135-160

### 23 Construction of CS & T

See also 2-252

- 2-150 231  
Hall, A.: An overview of the thesaurus building process. Orig.en. Australian Spec.Libr. Vol 24, No 2, 1991, p.45-50, 5 refs.
- 232 Design Principles for CS  
See also 2-113
- 2-151 234  
Grinina, R.F.; Serebryannikova, T.O.: The subject heading language as part of the IR language. Orig.ru. In: Problemy kul'tury v usloviyakh Sibiri i perestrojki: Tez.dokl.resp.nauch.konf. Ch.4. Kemerovo, SU: Kemer.Cos.Inst.Kul'tury 1990, p.174-176
- 2-152 236; 796  
Kunz, M.: Einige grundsätzliche Überlegungen zur Erarbeitung einer mehrsprachigen Schlagwortnormdatei. (Some principle considerations before elaborating a multilingual standard subject heading file) Orig.de. Dialog Bibl., No 3, 1991, p.26-32  
As a project for the action plan for European libraries a multilingual standard subject authority list is foreseen. The problems of such a list are discussed and the background of the relevant DIN and ISO standards.

2-153 237  
Kobrin, R.Yu.: Cognitive computer modelling of subject areas and terminologies: An experience of methodological and pragmatic analysis. Orig.ru. In: Aktual.probl.komp'yuter.lingv.: Tez.dokl.Vses.Konf., Tartu, 29-31 Maya, 1990. Tartu, SU 1990, p.72-73, 6 refs.

### 24 Relationships

- 2-154 243  
Kaplan, R.M.; Berry-Rogge, G.: Knowledge-based acquisition of causal relationships in text. Orig.en. Knowledge Acquisition Vol 3, 1991, p.317-337, 19 refs.  
A procedure is described that integrates several techniques for recognizing causal relationships in expository text. Applying these techniques yields a knowledge representation consisting of classifications of causal relationships contained in a text. The causal analyzer described in this paper will be part of a knowledge acquisition system called TAKT (tool for the acquisition of knowledge from text), which is currently being developed. (Authors, abbr.)
- 2-155 244  
Draskau, J.K.: Some reflections on equivalence/Äquivalenz as a term and a concept in the theory of translation. Orig.en. Meta Vol 36, No 1, 1991, p.269-274
- 2-156 247  
Hartmann, U.: Behandlung komplexer Objekte in relationalen Datenbanksystemen. (Handling complex objects in relational DBS) Orig.de. Rechen techn.-Datenverarb. Vol 27, No 6, 1990, p.20-22, 15 refs.
- 2-157 248-26  
Simmons, E.S.: The grammar of Markush structure searching. Vocabulary vs syntax. Orig.en. J.Chem.Inform.Comput.Sci. Vol 31, No 1, 1991, p.45-53, 13 refs.  
The paper discusses the grammar of Markush structures and compares the vocabulary-based approach of fragmentation codes with the syntax-based approach of topological indexing systems. (Author, abbr.)

### 25 Numerical Taxonomy

See also 2-215

- 2-158 251  
Bentier, P.M.: Book review of Bollen, K.A.: Structural equations with latent variables. New York: Wiley 1989, 514p. Orig.en. J.Classif. Vol 8, No 1, 1991, p.142-145, 8 refs.
- 2-159 251  
Crowder, M.: Book review of Leeden, Rien van der: Reduced rank regression with structured residuals. Leiden: University. DSWO Press 1990, XI, 148p. Orig.en. J.Classif. Vol 8, No 1, 1991, p.139-141, 2 refs.
- 2-160 251  
Sneath, P.H.A.: Book review of Scott-Ram, N.R.: Transformed cladistics, taxonomy and evolution. Cambridge: Cambridge Univ. Press 1990, XI, 238p. J.Classif. 8(1991)No 1, p.126-128
- 2-161 252  
Altham, P.M.E.: Book review of Agresti, A.: Categorical data analysis. New York: Wiley 1990, 558p. Orig.en. J.Classif. Vol 8, No 1, 1991, p.134-135
- 2-162 252  
Gurnow, R.N.: Book review of Weir, B.S.: Genetic data analysis, methods for discrete population genetic data. Sinauer 1990, XII, 377p. Orig.en. J.Classif. Vol 8, No 1, 1991, p.120-121
- 2-163 252  
Brouwer, P.; Kronenberg, P.M.: Some notes on the diagonalization of the extended three-mode core matrix. Orig.en. J.Classif. Vol 8, No 1, 1991, p.93-98, 13 refs.
- 2-164 252  
Bryant, P.G.: Large-sample results for optimization-based clustering methods. J.Classif. Vol 8, No 1, 1991, p.31-44, 24 refs.
- 2-165 252  
Duffy, D.E.; Quiroz, A.J.: A permutation-based algorithm for block clustering. Orig.en. J.Classif. Vol 8, No 1, 1991, p.65-91, 32 refs.
- 2-166 253; 2557 CH  
Chan, K.P.; Oeung, Y.S.: Clustering of clusters. Orig.en. Pattern Recognition Vol 25, No 2, 1992, p.217-217, 17 refs.
- 2-167 253; 872  
He, Dong-Chen; Wang, Li: Unsupervised textural classification of images using the texture spectrum. Orig.en. Pattern Recognition Vol 25, No 3 1992, p.247-255, 24 refs.

- 2-168 253  
De Soete, G., DeSarbo, W.S.: A latent class probit model for analyzing pick any/N data. Orig.en. J.Classif. Vol 8, No 1, 1991. p.45-63, 25 refs.
- 2-169 254  
Guénoche, A.; Hansen, P., Jaumard, B.: Efficient algorithms for divisive hierarchical clustering with the diameter criterion. Orig.en. J.Classif. Vol 8, No 1, 1991. p.5-30, 34 refs.
- 2-170 254  
Safavian, S.R.; Landgrebe: A survey of decision tree classifier methodology. Orig.en. Transactions on Systems, Man & Cybernetics Vol 21, No 3, 1991. p.660-673, 21 refs.
- 2-171 255  
Mao, J.; Jain, A.K.: Texture classification and segmentation using multiresolution simultaneous autoregressive models. Orig.en. Pattern Recognition 25(1992)No 2, p.173-188, 39 refs.
- 2-172 255; 157  
Murtagh, F.: Book review of Paol, Y.-H.: Adaptive pattern recognition and neural networks. Reading, MA: Addison-Wesley 1989. XVII, 309p. J.Classif. Vol 8, No 1, 1991. p.115-119, 14 refs.
- 2-173 255; 157  
Murtagh, F.: Book review of Zeidenberg, M.: Neural networks in artificial intelligence. Chichester, GB: Ellis Horwood 1990. 268p. J.Classif. Vol 8, No 1, 1991. p.115-119, 14 refs.
- 2-174 258-222  
Tatsuki, S.: A clustering method using the strength of citation. Orig.en. J.Inform.Sci. Vol 16, No 3, 1990. p.175-181, 32 refs.
- 2-175 258-27  
Gavrilova, Yu.A.; Mil'man, B.L.: Cluster analysis of the documentary information flow in chemical engineering. Orig.ru. In: Aktual'probl.prikl.khimi: Tr.19 nauch.konf.mol.uchenykh ispets. Gos.inst.prikl.khimi, Leningrad, 15 noyab.1989. Leningrad, SU 1990. p.145-161, 11 refs.
- 2-176 258-534  
Grimson, R.C.; Rose, R.D.: A versatile test for clustering and a proximity analysis of neurons. Orig.en. Meth.Inform.Med. Vol 30, No 4, 1991. p.299-303, 17 refs.
- 2-177 258-6  
Jeffers, J.N.R.: Book review of Duntzman, G.H.: Principal component analysis. London, New Delhi: Sage Publ. 1989. 96p. Quantitative Applications in the Social Sciences No.69. Orig.en. J.Classif. Vol 8, No 1, 1991. p.136-138
- 2-178 259  
Tubbs, J.D.; Alltop, W.O.: Measures of confidence associated with combining classification results. IEEE Transactions on Systems, Man & Cybernetics 21(1991)No 3, p.690-692, 12 refs.

## 26 Notation, Codes

- 2-179 265  
Bradley, Ph.: Book numbering: the importance of the ISBN. Orig.en. Indexer Vol 18, No 1, 1992. p.25-26
- 2-180 268-26  
Gladys, C.L.; Goodson, A.L.: Numbering of interior atoms in fused ring systems. Orig.en. J.Chem.Inform.Comput.Sci. Vol 31, No 4, 1991. p.523-526, 7 refs.

## 29 Evaluation of CS & T

- 2-182 292  
Ruchinskaya, E.M.: Comparison of subject headings languages for their streamlining. Orig.ru. Nauch.i tekhn.biblioteki SSSR, No 4, 1990. p.3-10, 10 refs.
- 2-183 298-26  
Martin, S.; Bergerhoff, G.: Chemical Abstracts online. A study of the quality of controlled terms. Orig.en. J.Chem.Inform. Comput.Sci. Vol 31, No 1, 1991. p.147-152, 10 refs.

## 3 CLASSING AND INDEXING

### 31 Theory of Classing and Indexing

- 2-184 31  
Benediktsson, D.: Book review of Wellisch, H.H.: Indexing from A to Z. New York: Wilson 1991. XXVI, 461p. Orig.en. Int.Classif. Vol 19, No 1, 1992. p.36-39, 3 refs.
- 2-185  
Piggott, M.: Book review of 2-184. Orig. en. Indexer Vol 18, No 1, 1992. p.59

- 2-186 31  
Wellisch, H.H.: Book review of Cleveland, D.B., Cleveland, A.B. Introduction to indexing and abstracting. Englewood, CO: Libraries Unlimited 1990. 329p. Orig.en. Libr.Resources & Techn.Serv. Vol 35, 1991. p.231-232
- 2-187 31  
Lancaster, F.W.: Indexing and abstracting in theory and practice. Orig.en. London: Libr.Assoc. 1991. 328p., 331 refs., ISBN 1-85604-004-6  
The volume has the following 17 chapters: Introduction, Indexing principles, Indexing Practice, Pre-Coordinate Indexes, Consistency of Indexing, Quality of Indexing, Abstracts: Types and Functions, Writing the Abstract, Evaluation Aspects, Approaches Used in Indexing and Abstracting Services, Enhancing the Indexing, On the Indexing and Abstracting of Imaginative Works, Natural Language in Information Retrieval, Automatic Indexing, Automatic Abstracting and Related Procedures, The Future of Indexing and Abstracting Services, Indexing Exercises, Abstracting Exercises. - Appendices: 1. Summary of Abstracting Principles (Payne et al. 1962, a reprint). 2. Modular Content Analysis with Subject Modules (reprint, 1964). 3. Glossary (def. of 9 concepts). Subject and Name Index.
- 2-188 Schwartz, Candy: Book review of 2-187. Orig.en. Library J. Vol 116, 1991. p.237
- 2-189 Bakewell, K.G.B.: Book review of 2-187. Orig.en. Indexer Vol 18, No 1, 1992. p.59-60
- 2-190 Cochrane, P.A.: Book review of 2-187. Orig.en. Inform.Process. & Management Vol 28, No 2, 1992. p.286-287

- 2-191 31.07  
Fugmann, R.: Theoretische Grundlagen der Indexierungspraxis. (Theoretical foundations of indexing practice) Orig.de. Frankfurt/Main: INDEX Verlag 1992. XVI, 325p. = Fortschritte in der Wissensorganisation 1, ISBN 3-88672-400-X (PB), -403-4 (HC)  
The book has a Foreword by Hans H.Wellisch and consists of the following chapters: Introduction, Information and Information System, On the Usefulness of Theoretical Foundations in Designing an Information System, Theoretical Considerations for the Storage and Retrieval of Information (including the "5-Theses-Theory of Information Retrieval and Indexing"), A Philosophical Basis for Information Retrieval, Indexing and Indexing Language, A Technology of Information Retrieval, Application Examples for the 5-Theses Theory, The book ends with a section of two indexes and their elaborate introduction.

- 2-192 317  
Abdur, K.M.: Comparative index terms. Orig.en. Int.Lib.Riv. Vol 21, No 3, 1989. p.289-300, 5 refs.

## 32 Subject Analysis

- 2-193 322  
Jansson, P.-E.; Kenne, L.; Widmalm, G.: CASPER: a computer program used for structural analysis of carbohydrates. Orig.en. J.Chem.Inform.Comput.Sci. Vol 31, No 4, 1991. p.508-516, 22 refs.
- 2-194 324  
Agarwal, R.; Tamiru, M.R.: Knowledge extraction using content analysis. Orig.en. Knowledge Acquisition Vol 3, 1991. p.421-41, 29 refs.
- 2-195 328-817  
Trofimenko, A.P.: Scientometric analysis of the topical content of scientific research and its particularities. Orig.en. Scientometrics Vol 18, 1990. p.409-435

## 33 Classing and Indexing Techniques

- 2-196 332 PL  
Sadowska, J.: The methodology of subject classification in Polish general libraries. Orig.pl. Prz.Bibl. Vol 57, No 3, 1989. p.241-250, 9 refs.  
A new subject classification and cataloguing manual is being prepared at present for Polish general libraries based on the theories developed by Adam Lysakowski and Izydora Darbaska but taking also into account the modern trends in subject classification, standards of document cataloguing and automation requirements.

## 34 Automatic Classing and Indexing

- 2-197 3431  
Chamier, J.; Dejean, M.: Computer assisted indexing: practices and methods. Orig.fr. Documentalists Vol 29, No 1, 1992. p.3-6, 24 refs.  
The article looks at the various methods used in the systems (described in an earlier paper), each based on different models: statistical, probability, linguistic or procedural.

2-198 3433  
Fuhr, N.; Buckley, C.: A probabilistic learning approach for document indexing. Orig.en. *ACM Transactions on Inform.Syst.* Vol 9, No 3, 1991, p.223-248, 37 refs.

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Trofirenko, A.P.: Information analysis of research subjects and determination of their prospects. Orig.ru. *Probl.Inform.Syst.*, No 9, 1990, o.20-33, 25 refs.

2-200 3438-51/4  
Dujols, P.; Rhein, M.: Analyse des énoncés médicaux en langage naturel vers un prototype d'indexation automatique. (Natural language processing of medical writings. Towards a prototype of automatic indexing) Orig. fr. Montpellier, FR, Université, Th.Doct.Inform. 1990, 167p.

2-201 3439  
Tat, Lam Ki: An overview of research into Chinese automatic indexing in China. Orig.ch. *J.Hong Kong Libr.Assoc.* Vol 13, 1989 p.43-51, 32 refs.

2-202 347; 47.213  
Corodilova, E.N.; Portnoj, L.S.: Online indexing of subject requests in an online catalogue environment. Orig.ru. In: *Probl. kul'tury v usloviyakh Sibiri i perestrojki: Tez.dokl.resp.nauch.konf.* Ch.4. Kemerovo, SU: Kemer.Cos.Inst.Kult'ury 1990, p.54-56

2-203 347; 756  
Thomas, A.R.: Book review of Afuri, R., Kemp, A., Boll, J.J.: Subject analysis in online catalogs. Englewood, CO: Libraries Unlimited 1991. XII, 303p. Orig.en. *Cat. & Classif.Quart.* Vol 14, No 1, 1991, p.91-93

### 35 Manual and Automatic Ordering

2-204 355.72  
Gifford, D.K.; Jouvelot, P.; Sheldon, M.A.; O'Toole, J.W.: Semantic file systems. Orig.en. *Operating Systems Rev.* Vol 25, No 5, 1991, p.16-25, refs.

2-205 356  
Wingert, B.; Riehm, U.; Böhle, K.: Perspektiven auf Hypertext - vorgestellt und hinterfragt. (Perspective on hypertext - presented and critically reviewed). Orig.de. *Nachr.Bok.* Vol 43, No 2, 1992, p.83-95, 7 refs.  
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### 36 Coding

2-206 368-26  
Nilakantan, R.; Bauman, N.; Venkataraghavan, R.: A method for automatic generation of novel chemical structures and its potential applications to drug discovery. Orig.en. *J.Chem.Inform. Comput.Sci.* Vol 31, No 4, 1991, p.527-530, 17 refs.  
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2-207 368-26  
Bohanec, S.; Zupan, J.: Structure generation of constitutional isomers from structural fragments. Orig.en. *J.Chem.Inform. Comput.Sci.* Vol 31, No 4, 1991, p.531-540, 24 refs.  
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2-208 368-36  
Apon, W.: A new algorithm for coding geological terminology. Orig.en. *Computers & Geosciences* Vol 17, No 7, 1991, p.883-893

### 38 Index Generation and Programs

2-209 382  
Wexler, P.J.: Reverse alphabetical indexing. Orig.en. *Indexer* Vol 18, No 1, 1992, p.9

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Adams, A.M.: Putting the horse before the cart: Rapid access to data banks by the 'SIGNPOSTS' method. Orig. n. *Indexer* Vol 18, No 1, 1992, o.3-9, 6 refs.  
'SIGNPOSTS' provides a matrix for establishing a fully articulated index for databases.

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Sano, H.: Concise display of index entries. Orig.en. *J.Doc.* Vol 47, No 1, 1991, o.23-35, 11 refs.  
A computer-aided method has been devised to display index entries in a concise tabular form.

2-212 385  
Sargent, G.; O'Brien, A.: Interfacing dBase III+ and PageMaker in the production of a publication-quality bibliographic index. Orig.en. *Program* Vol 25, No 4, 1991, p.349-354, 4 refs.

### 387 Programs for other activities in C & I

See also 2-002, -003, -107, -193

2-213 387.6866  
Bürger, J.: Schlagwortverzeichnis mit Komfort. Das Programmsystem zur Arbeit mit dem Schlagwortverzeichnis des Saarländischen Rundfunks. (Comfortable access to subject headings. The system of programs for accessing the index of subject headings of the Saarland radio station) Orig.de. *Nachr.Dok.* Vol 43, No 1, 1992, p. 19-26  
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2-214 387  
Grams, B.: MAIL: eine objektorientierte Sprache für die Wissensverarbeitung. [MAIL: An object-oriented language for knowledge processing] Orig.de. *Wiss.Beitr.Inform./Techn.Univ. Dresden*, No 6, 1989, p.58-69

2-215 387; 251  
Kazantsev, V.S.: Classification problems and software (the XVAZAR package). Orig.ru. Moskva, SO: Nauka 1990, p.128-134, 127 refs.  
Algorithms and software for classification problems.

2-216 387.77  
Maurice, N.; Blanchon, E.; Otman, G.; Boissy, J.: Comparaisons de trois logiciels utilisables en terminologie: FOXBASE+, MC4, TEXTO. (Comparison of three software packages usable in terminology) Orig.fr. *Meta* Vol 36, No 1, 1991, p.207-213  
Presentation of essential characteristics of the software: FOXBASE, TEXTO and MC4.

2-217 388-69  
Raper, R.: Making the consolidated index of The Oxford history of England. Orig.en. *Indexer* Vol 18, No 1, 1992, p.31-32

2-218 388-789  
Crane, I.: The National Philatelic Society indexing project. Orig.en. *Indexer* Vol 18, No 1, 1992, p.33-34

2-219 388-992  
Beckerlegge, O.A.: A scriptural Index to Hymns and Psalms. Orig.en. *Indexer* Vol 18, No 1, 1992, p.27-29

2-220 388-94  
Gordon, C.M.: The Witt Computer Index: answering unasked questions. Orig.en. *Bull.Amer.Soc.Inform.Sci.* Vol 18, No 2, 1991, p.22-23  
Description of the computer index at the Witt Library at the Courtauld Institute in London, a photographic archive containing images and associated information about paintings, drawings, and engravings.

### 39 Evaluation of Classing and Indexing

2-221 391  
Froehlich, T.J.: Towards a better conceptual framework for understanding relevance for information science research. In: Griffiths, J.H. (Ed.): *ASIS'91, Systems Understanding People*. Proc. 5th ASIS Ann.Meetg., Washington, DC, Oct.27-31, 1991. Medford, NJ: Learned Information 1991, p.118-125, 29 refs.  
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2-222 392  
Reich, P.; Biever, E.J.: Indexing consistency: the input output function of thesauri. *College & Research Libr.* Vol 52, No 4, 1991, p.336-342, 6 refs.

2-223 396  
Taichert, W.; Hospodarsky, J.; Krause, J.; Schneider, C.; Wönscher-Hacker, C.: Effects of linguistic functions on information retrieval in a German-language full-text database: Comparison between retrieval in abstract and full text. Orig.en. *Online Rev.* Vol 15, No 2, 1991, p.77-86, 6 refs.

2-224 398-432; 442  
Kemp, A.: Die Buchen sollst du suchen; Lateinische Fachtermini für die Online-Datenbankabfrage. (Special Latin terminology in database queries) Orig.de. *Mitt.Ges.Bibl.wes.u.Dok.lanbau*, No 46, 1990, p.85-91  
The study revealed that databases employing generally accepted scientific terminology and Latin terminology were the best performers in terms of recall rate.

## 4 ON UNIVERSAL SYSTEMS

### 42 On the Universal Decimal Classification

See also 2-329, -370

- 2-225 42.179  
New Deal for UDC. *Int. Classif.* 19(1992)No.1, p.21-22  
(Reprinted from *FID News Bull.* 41(1991)No.11/12, p.194 & 203)
- 2-226 42.179  
Schael, F.: New activities concerning the UDC. Second meeting of the DACH-Conference, Vienna, Nov. 19, 1991. *Orig. en. Int. Classif.* Vol 19, No 1, 1992. p.22
- 2-227 42.213  
Buxton, A.B.: Computer searching of UDC numbers. *Orig. en. J. Doc.* Vol 46, No 3, 1991. p.193-216, 21 refs.
- 2-228 42.218 BC  
Dipčikova, A.: Problems in the application of UDC in Bulgaria. *Orig. bg. Bibliotekar* Vol 38, No 4, 1991. p.7-9, 6 refs.

### 43 On the Dewey Decimal Classification (DDC)

- 2-229 43.173  
Grignani, E.: "...in its present form it is not acceptable": the Dewey Decimal Classification in the Italian discussion at the end of the 19th century. *Orig. it. Bibliotekar* Vol 32, No 3, 1991. p.283-310
- 2-230 43.182  
Williamson, N.: Dewey Decimal Classification. *Orig. en. Int. Classif.* Vol 19, No 1, 1992. p.31-32  
Updates on new revision work and field tests of the CD-ROM version of the DDC.
- 2-231 43.4 (DDC12)  
Olen, S.I.: Comments on abridged DDC12. *Orig. en. Mousaion* Vol 9, No 2n 1991. p.104-108
- 2-232 43.4  
Peritz, B.C.: Dewey Decimal Classification, 20th ed. *Orig. en. ISLIC Bull.* Vol 18, 1991. p.5-8, 3 refs.
- 2-233 43.4  
Traiser, W.: Book review of Comaromi, J.P. et al. (Eds.): *Dewey Decimal Classification and Relative Index. Revised by Melvin Dewey, edition 20.* Albany, NY: Forest Press/OCLC 1989. *Orig. de. Z. Bibl. wes. Bibliogr.* Vol 37, No 5, 1990. 435-437

### 44 On the Library of Congress Classification and on the Library of Congress Subject Headings

- 2-234 44.1  
Chan, L.M.: *Imroth's Guide to the Library of Congress Classification*, 4th ed. *Orig. en. Englewood, CO: Libraries Unlimited* 1990. 436p., Library Science Text Series, ISBN 0-87287-736-9
- 2-235 Thompson, G.E.: Book review of 2-234 in *Libr. Resources & Techn. Serv.* Vol 35, 1991. p.343
- 2-236 44.6-984  
Dreyfuss, R.: *Library of Congress Classification for Judaica: recent changes (1989-1990)*. *Orig. en. Judaica Librarianship* Vol 5, No 2, 1990/91. p.223-227
- 2-237 448.179  
Gutterism, codism, and consumerism: the past, present, and future LC subject access. *Techn. Serv. Quart.* 9(1991)No.1, p.19-26 18 refs.  
Review of the three phases of the development of Library of Congress Subject Headings. The practices of the past are said to be inconsistent and ineffective, they should be replaced by standardization.

### 47 On the Library Bibliographical Classif. (LBC/BBK)

- 2-238 47.172  
Rubleva, V.: A prize is awarded but the problem remains. *Orig. ru. Sov. bibliogr.*, No 3, 1990. p.24-25  
It took a large team of professionals nearly three decades to execute a government order - to develop the Library-Bibliographical Classification (LBC) for all types of libraries. In 1981 the team was awarded the USSR State Prize in science. Thus began the forced introduction of the LBC schedules in library practice; in the public and children's libraries in 1978, in the general research libraries in 1984, and in the republic, area and region libraries in 1985. This has continued to this day despite numerous practitioners' protests. The article carries a letter which bears out the fact that the LBC does not meet today's requirements. (Orig. abstr.)

- 2-239 47.6-39  
The right of choice of the LBC and the regional studies catalogue. *Orig. ru. Sov. Bibliogr.* (1990)No.4, p.16-20, 3 refs.

- 2-240 47.984  
LBC: Who is for it and who is against it? *Orig. ru. Sov. bibliogr.*, Moskva (1991)No.1, p.3-17  
Results of a round table of Sept. 12, 1990 concerning the use of the LBC in regional catalogues. There was common agreement that the LBC is ideologized and does not comply with present demands, its use should not be made compulsory, especially not to those libraries who could - so far - resist its introduction.

### 48 On Other Universal Systems

See also 2-028

- 2-241 482.6-522; -51/4  
Ishiyama, H.: *Medicine and pharmacy in Nippon Decimal Classification draft 19th ed.* *Orig. ja. Pharmaceutical Libr. Bull. (Japan)* Vol 35, No 4, 1990. p.238-247, 7 refs.  
The 9th revision of the Japanese Nippon Decimal Classification is due in 1992. The 8th of 1978 was designed to accommodate the trend towards open-access libraries. In computerized catalogs class numbers have acquired new significance. The draft new edition focuses on redeveloping class numbers to reduce bunching of books at one number or non-use of a number. The theoretical structure needs improvements. The article looks in detail at NDC numbers for medicine and pharmacy and the numbers of books classed at these numbers.
- 2-242 485 AT  
Labner, J.: Schmidt, Alfred: Projekt: Österreich-Schlagwortnormdatei. (The Austrian Standard Subject Catalogue Project) *Orig. de. Mitt. VÖB* Vol 44, No.3-4, p.62-70, 4 refs.  
By regulation of the Federal Ministry for Science and Research of Austria of April 25, 1990, subject cataloguing was to follow the German Rules for the Subject Catalogue (RSWK). The article lists the problems following out of the Ministry's decision.
- 2-243 485 NL  
Schulz, U.: Die niederländische Basisklassifikation: Eine Alternative für die "Sachgruppen" in Fremdatenaustausch der Deutschen Bibliothek. (Netherlands Basic Classification as an alternative for the subject groups in the external data file of the German Library) *Orig. de. Bibliotheksdienst* Vol 25, No 8, 1991. p.1196-1219, 16 refs.  
Favors the application of the Dutch Basic Classification with 47 main classes and 2000 classes altogether as a broad classification for the German library network.
- 2-244 485  
Kunz, Martin: Grundlagen der Schlagwortnormdatei. (Principles of the Standard Subject File) *Orig. de. Dialog Bibl.* Vol 4, No 1, 1992. p.5-10
- 2-245 485; 222  
Ribbert, U.: Terminologiekontrolle in der Schlagwortnormdatei. (Terminological control in the German Standard Subject File) *Orig. de. Bibliothek* Vol 16, No 1, 1992. p.9-25, 53 refs.  
Critical examination of the thesis that the Standard Subject File (SMD) is a "controlled indexing language". Many terms of the SMD turn out to be highly ambiguous. The vocabulary is lacking structural lucidity. Reasons for failures are indicated.
- 2-246 485.6-66  
Meyer, H.-B.: Rechtsbegriffe in den RSWK und der SMD. (Law concepts in the Rules for the Subject Catalogue and the Standard Subject File) *Orig. de. Recht - Bibliothek - Dokumentation* Vol 20, No 3, 1990. p.158-160
- 2-247 487  
Nishikawa, M.: Usefulness of the hybrid systems in computerized searches. *Orig. en. World Patent Inform.* Vol 12, No 4, 1990. p.212-215  
The development of hybrid classification systems associated with the IPC in the Japanese Patent Office is described and the effectiveness of search in a computerized system based on the IPC hybrid system in the lubrication field is examined. (Author)
- 2-248 487  
Vijvers, W.G.: The International Patent Classification as a search tool. *Orig. en. World Patent Inform.* Vol 12, No 1, 1990. p.26-30, 8 refs.  
The paper gives some background information on the IPC, its change in the course of years, and concentrates on the practical aspects of using it as a search tool. Examples are given based on the author's own experience. Attention is drawn to pitfalls connected with IPC searching and to ways of combining the IPC with other search parameters. The author clarifies that he does not want to criticize the IPC. (Author, abbr.)

2-249 487; 753  
Popov, S.V.; Epstein, M.Y.: Dynamic patent search in the "SOVA" information retrieval system. Orig.en. World Patent Inform. Vol 13, No 4, 1991. p.217-222, 10 refs.

## 5 ON SPECIAL OBJECTS CS

2-250 5265  
Lawson, A.J.: Systematic nomenclature from F.K.Beilstein to AUTONOM. Orig.en. Mitt.bl.GCh.CIC, No 21, 1992. p.27-34, 8 refs.

## 6 ON SPECIAL SUBJECTS CS & T

### 62 On CS & T in the Energy and Matter Area 2

2-251 626  
Liebscher, W.: Die Beschreibung von Substanzen - die Anbivalenz der Nomenklatur. (Description of substances - problems with nomenclature) Orig.de. Mitt.bl.GCh.CIC, No 21, 1992. p.4-26, 51 refs.

### 63 On CS & T in the Cosmos and Earth Area 3

2-252 631.233  
Shobbrock, R.M.: TRex: a cooperative thesaurus building project for the International Astronomical Union. Orig.en. Australian Spec.Libr. Vol 24, No 2, 1991. p.57-64, 17 refs.

2-253 639  
Jackson, P.: A thesaurus for enhanced geographic access. Orig.en. LASIE Vol 22, No 3, 1991. p.49-60, 17 refs.

### 64 On CS & T in the Bio Area 4

2-254 646  
Thomas, S. E.: Improved access to agricultural literature through a comprehensive detailed agricultural thesaurus. Orig.en. Quart.Bull.Int.Assoc.Agricult.Inform.Specialists Vol 36, No 1-2, 1991. p.80-82, 2 refs.  
Briefly describes the cooperative efforts aimed at producing a single, consolidated thesaurus for the major agricultural data bases: AGRICOLA; AGRIS; and CAB Abstracts.

2-255 646  
Lebowitz, A.I.; Zwart, R.P.; Schmid, H.: Multilingual indexing and retrieval in bibliographic systems: The AGRIS experience. Orig.en. IAALD Quart.Bull. Vol 36, No 3, 1991. p.187-192

2-256 6463  
Smirnov, Yu.G.; Aleksandrov, L.V.; Shepelev, N.P.: Using an organizational subject authority file for knowledge ordering, with special reference to agricultural machinery. Orig.ru. In: Teoriya i prakt. izobret. ratsionaliz. i pat.-itserzion, raboty; Mater.sem. /0-vo "Znanie" RSFSR, Moskva: Mosk.dom. Nauch-tekhn prop. 1990. p.30-36, 15 refs.

### 65 On CS & T in the Human Area 5

2-257 651/4 IT  
Morrioni, E.: Instruments for information retrieval in some medical libraries. Orig.it. Boll.d'Inform. Vol 31, No 2, 1991. p.139-144, 6 refs.  
Presents the results of a survey carried out in 76 Italian medical libraries, and, in particular, examines the instruments for information retrieval (computer systems, lists of subjects thesauri, and classification schemes).

2-258 6528-57  
Ladewig, Ch.; Janzen, W.: Development of an ordering tool for computer-based processing of scientific information in the field of labour medicine. Orig.de. Informatik Vol 37, No 3, 1990. p.111-112

### 66 On CS & T in the Socio Area 6

2-259 6664  
Sohn, W.: Thesauruskonstruktion, -Pflege und -Anwendung in der Kriminologie. (Thesaurus construction, maintenance and application in criminal sciences) Orig.de. Recht - Bibliothek - Dokumentation Vol 21, No 2, 1991. p.84-97, 18 refs.

### 69 On CS & T in the Humanities Area 9

2-260 694; 6969  
Rinehart, M.: A bibliography and its languages. The Bibliography of the History of Art (BHA). Orig.en. Art Libraries J. Vol 16, No 2, 1991. p.10-13  
BHA, the successor to RILA and the Repertoire d'Art et d'Archeologie, has sought to develop and to apply a rigorous and consistent indexing language and policy in a bilingual database and publication using English and French.

2-261 6984  
Frisher, R.B.: The Association of Jewish Libraries and classification. Orig.en. Judaica Librarianship Vol 5, No 2, 1990. p.161-163

2-262 6992; 78-992  
Neuheuser, H.P.: Typologie und Terminologie liturgischer Bücher. (Typology and terminology of liturgical books) Orig.de. Bibliothek Vol 16, No 1, 1992. p.45-65, 110 refs.

## 7 CLASSIFICAT. AND LANGUAGE

### 71 General Problems of Natural Language

See also 2-108

2-263 711  
Arutyunova, N.D. (Ed.): Identity and similarity. Comparison and identification. Orig.ru. Moskva: AN SSSR. Inst.Yazykozn. Probl.Gruppa, Logich. Anal. Yaz. 1990. 226p.  
The volume unites a number of papers on the theme "Logical Analysis of Language".

714 Semiotics  
See also 2-111, -112

715 Artificial Intelligence  
See also 2-109

### 72 Semantics

See also 2-130, -141, -204

2-264 721  
Logico-semantic aspects of language units: An intercollegiate collection of papers. Orig. ru. Tula, SU: Tul.Gos.Ped.Inst. 1989. 160p.

The semantics of word, sentence, and text is investigated using the notional apparatus of semantic syntax, the logic of syntax links, the logic of evaluation, and pragmatics. (Orig.abstr.)

2-265 721  
Dykstra, M.: The problem of meaning. Orig.en. Int.Classif. Vol 19, No 1, 1992. p.19-20

2-266 722  
Sychev, O.A.: Semantic variability of a general-scientific vocabulary as a philosophical and linguistic problem. Orig.ru. In: Probl.Yazyk.variativnosti. Moskva 1990. p.77-95, 38 refs.

2-267 723  
Ouaiche, J.: Determination sémantique en analyse structurelle. Une expérience basée sur une définition de distance. (Semantic determination in structural analysis. An experience based on a definition of distance) Orig.fr. TA Inform., No 1, 1990. p.17-24

2-268 723  
Frumkina, R.M.; Mikheev, A.V.; Mostovaya, A.D.; Ryumina, N.A.: Semantics and categorization. Orig.ru. Moskva, SU: Nauka 1991. 168p., refs. (p.153-156)  
An experimental approach to language categorization as the way of interpretation of human experience. A monography prepared by the Inst. of Linguistics of the Russian Academy of Sciences.

2-269 723  
Lavitskij, A.S.; Likhacheva, O.A.; Ryabova, N.V.: On semantic modelling of word formation semantics of suffixal morph strings. Orig.ru. Probl.Broniki, No 44, 1990. p.36-41, 3 refs.

2-270 723  
Delmonte, R.: Semantic parsing with LFG and conceptual representations. Orig.en. Comput.Humanit. 24(1990)No 5-6, p.461-488

2-271 723  
Dietze, J.; Völkel, H.: Verifikation einer Methode der lexikalischen Semantik. Zur computergestützten Bestimmung der semantischen Konsistenz und des semantischen Abstands. (Verification of a method of lexical semantics. On a computer-aided determination of semantic consistency and semantic distance.) Orig.de. Nachr.Dok. 43(1992)No 3, p.159-164, 11 refs.  
A semantic field "Linguistic communication" of 735 verbs is used for the verification of two numerically based methods working with semic co-occurrence and co-occurrence intervals due to the semic micro-structure of a lexeme. It was shown that the weak point of this procedure is the one-stage classification of the semantic features (semes) of the field.  
(Authors)

2-272 725  
Otto, L.: Vorschläge zur Implementierung und Externalisierung semantischer Netze. (Proposals concerning the implementation and externalization of semantic nets) Orig.de. Sprache u.UV Vol 14, No 1/2, 1990. p.83-102

2-273 726  
Krupatkin, Ya.B.: Semantic relations between sentences and a classification of English microtexts. Orig.ru. Izv. AN SSSR. Ser. Lit. i yaz. Vol 49, No 4, 1990. p.380-390, 16 refs.

### 73 Automatic Language Processing

2-274 738-51/4  
Pietrzyk, P.M.: A medical text analysis system for German - syntax analysis. Orig.en. Meth. Inform. Med. Vol 30, No 4, 1991. p.275-283, 66 refs.

### 74 Grammar Problems

2-275 743  
Kretzenbacher, H.L.: Syntax des wissenschaftlichen Fachtextes. (The syntax of scientific texts) Orig.de. Fachsprache - Special Language Vol 13, No 3/4, 1991. p.118-137, refs.

### 75 Question-Answering Systems, Online Techn.

2-276 751  
Allen, B.: Topic knowledge and online catalog search formulation. Orig.en. Libr. Quart. 61(1991)No 2, p.188-213, 28 refs. This research investigated the ways in which different levels of knowledge about a topic can affect searching for information on that topic in a library online catalogue. It was found that people with high levels of knowledge use more search expressions, including more general and nonproductive expressions, than low-knowledge users. It was also found that high-knowledge users employed more search expressions that had not been contained in their statements of information need than low-knowledge users. These differences in vocabulary use and search expression formulation may be of interest to designers of online catalogues as they attempt to increase the responsiveness of catalog systems to the needs of individual users. (Author)

2-277 751  
Drepper, C.: Grundlagen, Modelle und Methoden zur Unterstützung von Dialogrecherchen durch Informationsrecherchesysteme. (Principles, models and methods for the support of dialog searches by information retrieval systems) Orig.de. Berlin: Humboldt Universität, Dissertation 1991.

2-278 751  
Huston, M.M.: Windows into the search process: an inquiry into dimensions of online information retrieval. Orig.en. Online Review Vol 15, No 3/4, 1991. p.227-243, 61 refs.

2-279 751  
Maznev, V.A.: Intelligent interface systems for information retrieval. Orig.ru. Nauch.-tekh. inform., Ser. 2, No 6, 1990. p.12-21, 37 refs. The paper is concerned with intelligent interface projects worldwide. The focus of attention is on system projects that have been reported recently. The principal subjects considered in the survey: psychological basis for design of intelligent interfaces for online searching; main systems functions and requirements; classification and trends; use of AI techniques. The evolution and architectures of main variants of interfaces and their information and functional support are discussed. (Author)

2-280 751  
Koshelev, A.A.; Pantelev, Yu.R.; Tatarnikov, O.A.: An intelligent interface for automatic searching in text databases. Orig.ru. Sb. tr. VNIIT Prikl. Avtomatizir. Sistem, No 4, 1989. p.39-42, 3 refs.

2-281 752; 814  
Kaestner, J.: Online-Katalog und Regelwerk. (Online catalogue and rules) Orig.de. Z.f. Bibl. wes. u. Bibl.ogr. 37(1990)No 1, p.21-30

2-282 752  
Nohr, H.: Zum Sachzugriff über Stichworte in Online-Publikationskatalogen (OPACs). (Concerning subject access by keywords in OPACs) Orig.de. Libri Vol 41, No 3, 1991. p.165-169, 8 refs.

### 753 Online Activities; Query Optimization

See also 2-249

2-283 753  
Glückner-Rist, A.: Kognitive Strukturen und Prozesse bei der Formulierung von Suchfragen: eine empirische Analyse von Vermittler- und Endnutzerrecherchen in bibliographischen Online-Referenzinformationssystemen. Orig.de. (Cognitive structures and processes in the phrasing of subject queries: an empirical analysis of mediator and user retrieval results in bibliographic online reference information systems.) Paderborn, DE: Universität, Diss., 1990.

2-284 753  
Niemi, T.; Järvelin, K.: Advanced query formulation in deductive databases. Orig.en. Inform. Process. & Management Vol 28, No 2, 1992. p.181-199, 31 refs.

A novel operation-oriented framework for deductive databases is introduced. Several types of end-user queries to deductive databases are classified, and sample queries are used to demonstrate how they can be expressed in the framework. The sample queries and their sample evaluations show essentially reduced user effort and essentially increased user capability in the expression of advanced queries in deductive databases. These are also necessary features in modern information retrieval from fact databases. (Authors, abbr.)

2-285 753  
Quint, B.: Inside a searcher's mind: The seven stages of an online search - Pts. 1 and 2. Orig.en. Online Vol 15, No 3 and 4, 1991. p.13-18, p.28-35

2-286 753  
Tenopir, C.: Searching with menus. Orig.en. Libr. J. Vol 116, No 12, 1991. p.66, 68

An online-retrieval is usually done with commands which demand however, much training, good manuals and practice. Three major American online systems - SRS, DIALOG, and EPIC - offer now additional menu-retrieval possibilities. These offers are described in detail.

### 756 Thesaurus- and Classification-based Queries

See also 2-110, -203

2-287 756  
Fowler, R.H.; Fowler, W.A.L., Wilson, B.A.: Integrating query, thesaurus, and documents through a common visual representation. Orig.en. In: SIGIR Forum, Special Issue. Ann. Int. Conf. SIGIR'91. New York: ACM Press 1991. p.142-151, 42 refs.

The system utilizes visually displayed graphic structures and a direct manipulation interface style to supply an integrated environment for retrieval. A common visually displayed network structure is used for query, document content, and term relations. A query can be modified through direct manipulation of its visual form by incorporating terms from any other information structure the system displays. An associative thesaurus of terms and an interdocument network provide information about a document collection that can complement other retrieval aids. Visualization of these large data structures makes use of fisheye views and overview diagrams to help overcome some of the difficulties of orientation and navigation in large information structures. (Authors)

### 757 Expert Systems

See also 2-319

2-288 757  
Bauer, M.; Stein, B.; Weiner, J.: Problemklassen in Expertensystemen. Einordnung und Diskussion des QWAT'90-Workshops. (Problem classes in expert systems) Orig.de. Künstl. Intelligenz Vol 5, No 3, 1991. p.13-18, 11 refs.

2-289 757  
Malsch, Th.: Expertensysteme in der Krise. Kinderkrankheiten oder frühzeitige Vergreisung. [Expert systems in a crises. Children's sicknesses or early aging?] Orig.de. Künstl. Intelligenz Vol 5, No 3, 1991. p.70-73

2-290 7578-66  
Seim, K.: Juristische Expertensysteme in Deutschland - ein Überblick. [Legal expert systems in Germany - a survey] Orig.de. Künstl. Intelligenz Vol 5, No 3, 1991. p.6-12, 21 refs.

2-291 758-51/4  
Findler, N.V.; Maini, S.; Yuen, A.F.M.: SHRIF - a general-purpose system for heuristic retrieval of information and facts, applied to medical knowledge processing. Orig.en. Inform. Process. & Management 28(1992)No.2, p.219-240, 57 refs.

A completed project is described which, conceptually and technically, is a significant extension of IRUHS (Information Retrieval Using Heuristic Search) described in Findler (1979). SHRIF (System for Heuristic Retrieval of Information and Facts) is an information and fact retrieval system that emulates the natural strength and flexibility of humans in gathering new knowledge, grouping facts that belong together from some point of view, discovering and making use of partial similarities, handling uncertainties and incompletenesses, and making acceptable compromises when total consistency is not available. The system also exhibits user-friendliness in various ways. (Authors, abbr.)

2-292 758-97  
Sievert, M.E.C.; Sievert, D.E.: Online searching in philosophy: a comparison of Philosopher's Index and FRANCIS. Orig. en. Online Rev. Vol 15, No 2, 1991. p.63-75, 9 refs.

The comparison revealed that each database retrieved unique relevant items and that one is likely to miss at least some relevant items if one searches only one of the two databases.

2-293 759  
Hunter, R.N.: Successes and failures of patrons searching the online catalog at a large academic library: A transaction log analysis. Orig.en. RQ Vol 30, No 3, 1991. p.395-402, 7 refs.

2-294 759  
Vizine-Coetz, D.; Drabenstott, K.M.: Computer and manual analysis of subject terms entered by online catalog users. Orig.en In: Griffiths, J.H. (Ed.); ASIS'91: Systems Understanding People. Proc. 54th ASIS Ann.Meeting, Washington, DC, Oct.27-31, 1991. Medford,NJ: Learned Information 1991. p.156-161, 19 refs.

## 76 Lexicon/Dictionary Problems

2-295 761; 06.90  
Lexicology and phraseology: A new approach. Section "Lexicology": Proceedings of the 2nd Intercollegiate Conference. Orig.ru. Moskva: Mosk.Ces.Zao h.Ped. Inst. 1990. 178p.

2-296 762  
Hohnhold, I.; Schneider, T.: Terminological records and lexicon entries. A contrastive analysis. Orig.en. Meta Vol 36, No 1, 1991. p.161-173

2-297 762  
Maes, J.-M.: The intelligent dictionary project. Orig.en. Meta Vol 36, No 1, 1991. p.182-191

2-298 762  
Viehweyer, D.: Haben Wörterbucheinträge Textualität. (Do dictionary entries have a textuality?) Orig. de. Lexicographica Vol 6, 1990. p.127-140, 10 refs.  
It is assumed that dictionary entries represent standardized texts which are constituted by different text parts. These are, respectively, connected with a specific field of lexical knowledge which integrates a lemma sign. In contrast to numerous other texts dictionary entries do not allow variations of sequence. Above that, dictionary entries as texts have two different structure levels which are constituted, on the one hand, by utterances which explain a lemma sign, and on the other hand, by lexicographical examples which illustrate the use of the lemma sign. (Author, abbr.)

2-299 762  
Wiegand, H.E.: Printed dictionaries and their parts as texts. An overview of more recent research as an introduction. Orig.en. Lexicographica Vol 6, 1990. p.1-126, 122 refs.

2-300 763  
Zakharov, V.R.; Muntyan, D.B.; Petrov, A.D.: Guidelines for a dynamic automatic dictionary of semantically related terms. Orig.ru. In: Aktual.probl.komp'yuter.lingv.: Tez.dokl.Vses. Konf., Tartu, 29-31 Maya 1990. Tartu, SU 1990. p.56-57

## 77 General Problems of Terminology

See also 2-064, -066, -216

2-302 77.07  
Eisele, H.: Book review of Sager, J.C.: A practical course in terminology processing. Ars tordam/Philadelphia: J.Benjaminis 1990. XI,254p.. Orig.en. Int.Classif. 19(1992)No 1, p.41-42

2-303 77.19; 06.89-12-11/13  
Falileev, A.I.: The All-Union Conference "Language and history: The linguistic tradition", 11-13 Dec. 1989. Orig.ru. Izv.AN SSSR, Ser.Lit.i Yaz. Vol 49, No 4, 1990. p.397-298

2-304 77.937  
Kronp, R.: Principes de collaborations terminologiques. (Principles of terminological collaboration) Orig.fr. Meta Vol 36, No 1, 1991. p.240-242

2-305 77.99  
Terminology standardization: Methods and practice. Orig.ru. Nauch.-tekh.terminol./VNIKI (1990)No.5, p.1-66

2-306 77.99  
Rousseau, L.J.: La pratique québécoise de la normalisation terminologique. (The Quebec practice of terminology standardization) Orig.fr. Meta Vol 36, No 1, 1991. p.225-230

2-307 771  
Kerpan, N.: Temps forts ou temps faibles pour la terminologie en entreprise? (Strong or weak times for terminology in the business sector?) Orig.fr. Meta Vol 36, No 1, 1991. p.234-239

## 772 Form and Designation of Terms

See also 2-145

2-308 772  
Antonova, M.V.; Leichik, V.M.: The scientific term: its functions and use in information processes. Orig.ru. Nauchno-tekh.inform., Ser.2, No 11, 1990. p.2-8, 33 refs.

2-309 772  
Cormier, M.C.; Rioux, L.-P.: Procédés de formation et matrices terminologiques en terminologie des systèmes experts. (Formation processes and terminogenic matrices in expert systems terminology) Orig.fr. Meta Vol 36, No 1, 1991. p.248-268

2-310 773  
Lethuillier, J.: Combinatoire, terminologies et textes. (Combinatorics, terminologies and texts) Orig.fr. Meta Vol 36, No 1, 1991. p.92-100

## 777 Country and Language Oriented Terminology Work

See also 2-317

2-311 777 af  
Nazam Halaoui: La terminologie des langues africaines, esquisse d'une problématique. (The terminology of African languages, outline of a problematic settlement) Orig.fr. Meta Vol 36, No 1, 1991. p.291-300

2-312 777 ch  
Zhang, Yide: La terminologie en Chine. (Terminology in China) Orig.fr. Meta Vol 36, No 1, 1991. p.311-317

2-313 777 es  
Santoyo, J.C.; Rabadan, R.: Basic Spanish terminology for translation studies: a proposal. Orig.fr. Meta Vol 36, No 1, 1991. p.318-322

## 78 Subject-Oriented Terminology Work

2-314 78-35  
Doray, F.; Gaudet, R.: La recherche thématique à Hydro-Québec. (Thematic research at Hydro-Québec) Orig.fr. Meta Vol 36, No 1 1991. p.243-247

2-315 78-39  
Dugas, J.-Y.: Le traitement de la terminologie géographique, opération clef de l'aménagement toponymique au Québec. (The treatment of geographic terminology, key operation of toponymical arrangements in Québec) Orig.fr. Meta 36 (1991) No 1, p.218-224

2-316 78-66  
Gemar, J.-C.: Terminologie, langue et discours juridiques. Sens et signification du langage du droit. Legal terminology, language and discourse. Meaning and significance of the language of law Orig.fr. Meta Vol 36, No 1, 1991. p.275-283

2-317 78-66; 777 gr  
Koutsivitis, V.: Problèmes terminologiques de la version grecque des textes législatifs des Communautés Européennes. (Terminological problems of the Greek version of legal texts of the European Communities) Orig.fr. Meta 36(1991)No 1, p.284-90

2-318 78-82; 99  
Ugryanova, V.N.; Varshanova, N.V.: Standardization of terminology on STI. Librarianship and Publishing. Orig.ru. Standarty i kachestvo, No 4, 1990. p.54-56, 11 refs.

2-319 78-837; 757  
Lethuillier, J.; Cormier, M.C.: Terminologie française-anglais des systèmes experts et des sujets connexes. (French-English Terminology of expert systems and related subjects) Orig.fr. Meta Vol 35, No 4, 1990. p.748-759

2-320 78-825; 223  
(Contributions on the terminology of library collection development) Orig.en. Aktual.Probl.Terminol.Bibl.Dela. Riga, 1989.  
2-321 Tereshin, V.I.: On the structure and terminological system of library collection development. - 2-322 Linina, S.Ya.: Advances in collection development terminology. - 2-323 Stol'yarov, Yu.N.: Neologisms in terminology of collection development. - 2-324 Volodin, B.F.: Issues of the terminology of library-information work. - 2-325 Manulinya, A.A.: On the usefulness of replacing some library terms.

2-326 78-91  
Shelov, S.D.: On defining linguistic terms: An experience in typology and interpretation. Orig.ru. Vopr.Yazykozn., No 3, 1990. p.21-31

## 79 Problems of Multilingual Systems

See also 2-155

2-327 791  
Schwarke, M.: Maschinelle Übersetzung. Ein Überblick über Theorie und Praxis. (Machine translation. A survey on theory and practice) Orig. de. Berlin: Springer 1991. 489p., refs.  
Critical survey on the present state-of-the-art of research & development in machine translation. Section 1 is devoted to theory and history and description of LOGOS, SUSY, METAL & SYSTRAN, section 2 presents a documentation of research pro-

jects, system developments, software tools and important multilingual terminology databases. Bibliography of some 2000 refs.

2-328 796  
Slater, R.: Authority control in a bilingual OPAC. MultiLIS at Laurentian. Orig.en. Libr.Resources & Techn.Serv. Vol 35, No 4, 1991, p.422-458, 37 refs.

There is an increasing awareness of the need for authority systems able to handle a wide variety of thesauri. The MultiLIS system at Laurentian University, a bilingual institution in Northern Ontario, has an authority control module that satisfies many of the requirements for the maintenance of catalog access points in more than one language. The major features of the MultiLIS authority module and its current use in a bilingual setting, as well as its potential in a multilingual or multithesaurus environment, are described. A brief evaluation and critique of the authority module is also presented, principally in terms of its success in meeting the criteria for a multithesaurus management system. (Author)

## 8 APPLIED CLASSING AND INDEXING (C & I)

### 81 General Problems of Applied C & I

2-329 812 BC  
Dafinov, Z.: The change also of the systematic catalog in our public libraries. Orig.en. Bibliotekar - Sofiya 37(1990)No 11-12, p.7-8

It is proposed to use the UDC according to the international standard and perhaps also to use the B.C. The reclassification should be done under the guidance of the national library.

2-330 812.179  
Tyckoson, D. (Ed.): Enhancing Access to Information: Designing Catalogs for the 21st Century. Orig.en. New York-London-Sidney: Haworth 1991. 243 p.

The volume is divided into the following 7 sections to accommodate the 14 papers listed below: 1) Introduction; 2) Past problems and present solutions; 3) Enhancements to the traditional catalogue; 4) Building better search engines; 5) Linking for remote access; 6) Building the catalogue through non-traditional databases; 7) Systems of today, visions of tomorrow: Enhanced systems currently in operation.

2-331 Tyckoson, D.A.: Enhancing access to information: Building catalogs for the future. - 2-332 Tyckoson, D.A.: The twenty-first century limited: Designing catalogs for the next century. - 2-333 Dwyer, J.: Bibliographic records enhancement: from the drawing board to the catalog screen. - 2-334 Syracuse, R.O.; Poyer, R.K.: Enhancing access to the library's collections: a view from an academic health center library. - 2-335a Studwell, W.E.: Of eggs and baskets: getting more access out of LC Subject Headings in an online environment. - 2-335b Stephens, I.E.: Getting more out of call numbers: displaying holdings, locations and circulation status. - 2-335c Micco, M.: The next generation of Online Public Access Catalogs: A new look at subject access using hypertext. - 2-335d Sloan, B.G.: Remote access: Design implications for the online catalog. - 2-335e Engel, G.: User instruction for access to catalogs and database on the Internet. - 2-235f Barnes, S., McCue, J.: Linking library records to bibliographic databases: An analysis of common data elements in BIOSIS, Agricola, and the OPAC. - 2-235g Harwood, R.: Adding a nonlibrary campus collection to the library database. - 2-235h Carter, K., Olson, H., Aquila, S.: Bulk loading of records for microform sets into the online catalogue. - 2-336 Dykeman, A.; Zimmerman, J.: The Georgia Institute of Technology Electronic Library: issues to consider. - 2-337 Molholt, P.; Forsythe, K.: Opening up information access through the electronic catalog.

2-339 814  
Göbert, W.: (Book review of) Beispielsammlung zu den Regeln für den Schlagwortkatalog: zugleich eine Einführung in die RSWK. Berlin: Deutsches Bibliotheksinstitut 1991. 459p. (Collection of examples concerning the Rules for the Subject Catalogue, RSWK. At the same time an introduction into the RSWK) Orig.de. Z.Bibl.wes.u.Bibliogr. Vol 38, No 6, 1991, p.589-595

2-340 818  
Sofronova, E.S.: The Subject catalogue in a scientific library. Orig.ru. Nauch.i tekhn.biblioteki SSSR, No 8, 1990, p.40-43  
The experience of the S.V.Kurashov Kazan Medical School library in the organization and maintenance of the subject catalogue is discussed. (Author)

2-341 819  
Niggemann, E.: RSWK oder was sonst? Sacherschließung für den Online-Publikumskatalog der Universitätsbibliothek Düsseldorf. Ein Werkstattbericht. Orig.de. (RSWK or what else? Subject cataloguing for the OPAC of the University Library of Düsseldorf. A Workshop Report. Mitt.bl.Bibl.NRW Vol 41, No 4, 1991, p.385-403, 44 refs.

2-342 819  
Yee, M.M.; Soto, R.: User problems with access to fictional characters and personal names in online public access catalogs. Orig.en. Inform. Technol. Libr. Vol 10, No 1, 1991, p.3-13

### 83 Title C & I

2-343 831  
Tucker, B.R.: The limits of a title proper, or one case showing why human beings, not machines, must do the cataloging. Orig.en. Libr.Resources & Techn.Serv. Vol 34, No 2, 1990, p.240-245

### 84 C & I of Primary Literature (Except 85)

2-344 842  
Zhen Jialian: The story of the Chinese 'Search Files'. Orig.en. World Patent Inform. Vol 12, No 1, 1990, p.31-36  
The building up of the search files in the Chinese Patent Office is described. The effort of combining foreign assistance and self-effort is rewarding. The 'mixed-type search files' system established in a rather short period has been proved by the Chinese patent examiners to be encouragingly practicable. (Author)

2-345 844  
Ilowat, M.M.: 19th-century Perth newspapers indexed and abstracted. Orig.en. Indexer Vol 18, No 1, 1992, p.16-18  
Describes the indexing and abstracting of three 19th-century newspapers of Perth, Scotland, including problems of organizing volunteers, dealing with local history material, and selection policy for headings. (Orig.abstr.)

2-346 844  
Krisiep, M.S.: Organizing the Fourth Estate - classification of newspapers at Washington State University. Orig.en. Cat. & Classif. Quart. Vol 14, No 2, 1991, p.5-29

2-347 845  
Wellisch, H.H.: The indexing of periodicals. Orig.en. Learned Publishing Vol 5, No 1, 1992, p.13-18  
(Excepting newspapers).

2-348 845; 879  
Goldberg, M.: CD-ROM periodical indexes: better evaluation necessary. Orig.en. Indexer Vol 18, No 1, 1992, p.11-5, 25 refs.  
Library literature has, for some time, been replete with articles extolling the virtues of various CD-ROM periodical indexes. Most of these articles do not contain any definitive, methodical studies of the indexes; the assessment is usually of the kind 'we obtained a free trial of the product, many of the journals we received were indexed, and the patrons loved it'. There is a need to look at these powerful tools more closely. This article calls for better evaluation and highlights those studies that included in-depth examinations of the indexes, the use of computers, etc. The more complete an evaluation, the better the librarians will understand which index to purchase and where that index fits into library operations. (Author)

2-349 847  
Stoltzenburg, I.: (Book review of) König, Ch.: Verwaltung und wissenschaftliche Erschließung von Nachlässen in Literaturarchiven: Österreichische Richtlinien als Modell. München-New York-London-Paris: Saur 1988. 174p. Orig.de. Z.Bibl.wes. & Bibliogr. Vol 37, No 2, 1990, p.142-144

### 85 Book Indexing

2-350 851  
Bell, H.K.: Repagination reconsidered. Orig.en. Indexer Vol 18, No 1, 1991, p.10, 5 refs.

2-351 859  
Bell, H.K.: An author's guide to disparaging indexing. Orig.en. Indexer Vol 18, No 1, 1992, p.29-30

2-352 859  
Vickers, J.A.: Unacademic indexing. Orig.en. Indexer Vol 18, No 1, 1992, p.23-24, 2 refs.

### 87 C & I on Non-Book Materials

See also 2-16/

2-353 872  
Bordogna, G.; Carrara, P.; Gagliardi, I.; Merelli, D.; Mussion, P.; Naldi, F.; Padula, M.: Pictorial indexing for an integrated pictorial and textual IR environment. Orig.en. J.Inform.Sci. Vol 16, No 3, 1990, p.165-173, 34 refs.  
The problem is approached of automatic indexing in multimedia databases composed of text, pictures and drawings with special reference to astronomical objects such as galaxies and stars.

A data-driven rule-based system, ISID (Interactive System for Image Interpretation Design) was adopted as the kernel system to perform the pictorial indexing.

2-354 872  
Richardson, R.: The builder's illustrations. Orig.en. Local Studies Librarian Vol 9, No 1, 1990. p.13-15  
Description of the work of George Godwin the editor of "The Builder" - the most important Victorian weekly journal on architectural and building matters especially with regard to cataloguing and indexing all the illustrations published in this journal in the time 1842-3 until Godwin's retirement in 1883.

**879 C & I of Other Non-Book Materials**  
See also 2-348

2-355 879  
Witten, I.H.; Bell, T.C.; Nevill, C.G.: Indexing and compressing full-text databases for CD-ROM. Orig.en. J.Inform.Sci. Vol 17, No 5, 1991. p.265-272, 8 refs.  
The use of compression techniques can substantially increase the volume of text that a disk can accommodate, and substantially decrease the amount of primary storage needed to hold the indexes. The paper describes a suitable indexing mechanism and its compression potential using modern compression methods. It is possible to double the amount of text that can be stored on a CD-ROM disk and include a full concordance and indexes as well. A single disk can accommodate around 180 million words of text - equivalent to a library of 1000 - 1500 books and provide rapid response to a variety of queries involving multiple search terms and word fragments. (Author, abbr.)

**88 C & I in Subject Fields**

2-356 88-26  
Shalabi, A.S.: Random walks: computations and applications to chemistry. Orig.en. J.Chem.Inform.Comput.Sci. Vol 31, No 4, 1991. p.483-491, 12 refs.  
Describes the application of the random walk concept to the characterization and indexing of chemical structures.

2-357 88-267  
Rieder, M.: The IFL polymer indexing system: its past, present, and future. Orig.en. J.Chem.Inform.Comput.Sci. Vol 31, No 4, 1991. p.458-462, 3 refs.

2-358 88-97  
Yakimova, E.V.: Subject analysis in the philosophical sciences: the INION experience. Orig.ru. Sov.Bibliotekoved., No 4, 1990. p.33-40, 7 refs.

**9 CLASSIF ENVIRONMENT**

**92 Persons and Institutions**

2-359 922  
Rayward, W.B. (Ed.): International Organisation and Dissemination of Knowledge. Selected essays of Paul Otlet. Orig.en. Amsterdam, NL: Elsevier 1990. p.XIV, 256p., refs. p.221-250, ISBN 0-444-88678-8  
Organized chronologically, this book consists of 18 essays by Paul Otlet translated into English. It begins with his first publication on bibliography in 1893 and finishes with a 1934 80th-birthday tribute to his lifelong colleague and co-worker Henri LaFontaine. The essays reflect Otlet's attempts firstly to develop a theory of bibliography and documentation of the field we now know as information science (among which No.3: On the Structure Classification of Numbers, and 4: Rules for Developing the Decimal Classification); and secondly to find ways of harnessing existing and new technologies and international organizations of various kinds in order to facilitate access to and the transmission of recorded knowledge. The book includes an extensive and exhaustive bibliography of publications by Otlet and related secondary sources.

2-360 Buckland, M.: Book review of 2-359 in Libr.Quart. Vol 61, No 4, 1991. p.447-448

2-361 924  
Carey Award. Indexer 18(1992)No.1, p.39, 2 refs.  
At the Society of Indexer's Annual General Meeting on 7 Nov. 1991, Ken Bakewell, retiring after three years as SI President was presented with the Carey Award.

2-362 924  
Garfield, E.: Michael J.Moravcsik multidimensional scholar and hero of third world science. Orig.en. Current Contents: Phys., Chem. & Earth Sci. Vol 30, No 2, 1990. p.3-6, 29 refs.  
Michael J.Moravcsik (1928-1989) was also a prominent organiser of science. The author emphasizes particularly his contributions to scientometrics since 1973. He authored well-known

papers on a quantitative classification of citations, measures of scientific growth, methodology of evaluation, criteria of scientific choice, multidimensional modelling science, similarity and differences of scientific and artistic creativity, science policy and scientific communication.

2-363 924  
Satija, M.P.: Ranganathan and classification: A chronology 1924-1992. Orig.en. Inf.Classif. Vol 19, No 1, 1992. p.3-6

2-364 924  
Satija, M.P.: (Book review of) Ranganathan, S.R.: A librarian looks back: An autobiography of Dr. S.R.Ranganathan appended with an evaluation of his life and work by P.N.Kaula. New Delhi: ABC Publ.House 1992. XI, 485p. Orig.en. Int.Classif. Vol 19, No 1, 1992. p.35-36, 2 refs.

2-365 924  
Bowman, A.W.: (Book review of) Cleveland, W.S.(Ed.): The collected works of John W.Tukey. Vol.5: Graphics. Pacific Grove, CA: Eadsworth & Brooks/Cole 1988. 463p. Orig.en. J.Classif. Vol 8, No 1, 1991. p.132-133

2-366 924  
Satija, M.P.: John Phillip Comaromi, 1937-1991. In Memoriam. Orig.en. Int.Classif. Vol 19, No 1, 1992. p.33-34

**925 Societies, Research Groups, Committees**  
See also 2-062, -066, -101, -103

2-367 925  
Williamson, N.: News from the American Library Association. Orig.en. Int.Classif. Vol 19, No 1, 1992. p.31  
Info on activities of the USMARC Advisory Group and the ALA/ALCTS Subject Analysis Committee.

2-368 925  
Sweeney, R.: Library Association Dewey Decimal Classification Committee. Orig.en. Cat. & Index, No 101-102, 1991. p.1

2-369 925  
Riggs, F.W.: INTERCOCTA. Orig.en. Int.Classif. Vol 19, No 1, 1992. p.23  
Report about ongoing activities of the Committee for Conceptual and Terminological Analysis in the Social Science.

**93 Organisation on a Natl. & Internatl. Level**

See also 2-148, -228, -304

2-370 934 BG; 42.218 BG  
Ljutova, A.: Classification systems in Bulgarian libraries. Orig.bg. Bibliotekar - Sofia Vol 38, No 2, 1991. p.2-4  
The change in the social-political conditions in Bulgaria demand a principally revised form of the library catalogues and their classification schemes. The author proposes to adopt the UDC on a national scale and outlines the necessary preparatory steps for this change.

2-371 934 PL  
Sadowska, J.: On subject cataloguing problems in Poland (1980-1990). Orig.pl. Bibliotekarz, No 273, 1991. p.12-14, 8 refs.

2-372 935 CN  
Xiao, Y.: Modern development of classification. Research and practice in the People's Republic of China. Orig.en. Int.Classif. Vol 19, No 1, 1992. p.10-14, 32 refs.

**95 Education and Training**

2-373 957  
Sakova, O.Ya.: Student independent work in studying the section "subject analysis" of the "Library Catalogues" curriculum. Orig.ru. In: Probl.kul'tury v usloviyakh Sibiri i perestrojki: Tez.dokl.resp.nauch.konf.Ch.4. Kemerovo, SU: Kemer.Gos.Inst.Kul'tury 1990. 34p.

2-374 957  
Leonidova, G.F.: The intelligent database "The Librarian's Professional Thesaurus": concept and design experience. Orig.ru. In: Probl.kul'tury v usloviyakh Sibiri i perestrojki: Tez.dokl.resp.nauch.konf.Ch.4. Kemerovo: Kemer.Gos.Inst.Kul'tury 1990. p.16-17  
At the State Institute of Culture in Kemerovo, the Chair of Automated Library Systems and Computer Engineering is carrying out a research project to assess how rationally the learning time is used and to compare the professional thesaurus a student has to build in the course of learning with the notional apparatus of the world's professional literature. The study relies on content analysis which isolates and then quantifies lexical units which bear the greatest semantic load in the text. A database is being built up "The Librarian's Professional Thesaurus" which represents the set of semantic units. It can be used for a number of purposes named explicitly.

2-375 957 AU  
 Schauer, G.: An educational role for the Australian Society of Indexers. *Orig.en. Indexer Vol 18, No 1, 1992, p.20-22*

2-376 957  
 Simkin, J.: Future educational and training needs of indexers. *Orig.en. Indexer Vol 18, No 1, 1992, p.19-20*  
 Indexing now and in the future must be carried out with an understanding of the whole field of 'knowledge organization'. The work so far has concentrated on producing something like an indexing 'technician' rather than a 'master' indexer or fully professional 'organizer of knowledge'. Therefore professional courses taught at recognized institutions of higher education, accredited by associations which have reached this level of recognition are needed as well as higher-level academic studies and research.

## 97 Economic Aspects

2-377 977  
 Walter, G.: Digital image capture and OCR: reducing the entry cost barrier. *Orig.en. Int.J.Micrographics and Video Technol. Vol 9, No 4, 1991, p.179-186*  
 The paper rationalized the three primary choices that govern indexing costs under control of the systems designer: folder level indexing, page level indexing, and the use of OCR/ICR for indexing. Strategies for retrieval efficiency, mechanics of indexing, image quality control inspection, assignment of address and recording, typical labor requirements, document conversion and indexing cost, and the process of optical character recognition are among the topics discussed. (Author)

## 98 User Studies

See also 2-147, -240

2-378 982  
 Borgman, C.L.; Waler, V.A., Rosenberg, J., Gallagher, A.L.: The science library catalog project. Comparison of children's searching behavior in hypertext and a keyboard search system. *Orig.en. In: Griffiths, J.H.(Ed.); ASIS'91: System Understanding People. Proc.54th ASIS Ann.Meeting, Washington, DC. Medford, NJ: Learned Information 1991. p.162-169, 15 refs.*

Report on a continuing project to study children's use of a graphically-based direct manipulation interface for science materials. The Science Library Catalog, a component of Project SEED, has been implemented in the libraries of two elementary schools in Los Angeles. The interface employs a hierarchical structure drawn from the Dewey Decimal Classification and implemented in HyperCard on a Macintosh. The study indicated that children are able to use the Catalog unaided with reasonable success in finding items. (Authors, abbr.)

2-379 984  
 Morris, L.R.: The frequency of use of Library of Congress Classification numbers and Dewey Decimal Classification numbers in the MARC file in the field of library science. *Orig.en. Techn.Serv.Quart. Vol 8, No 1, 1990, p.37-49, 4 refs.*  
 The results of the comparison suggest that classification of monographs could be made easier and performed more accurately if many of the little used and unused numbers were eliminated and many of the most crowded numbers were expanded. Examples are given.

2-380 988  
 Babu, R.: User preferences for indexes in philosophical books: a survey. *Orig.en. Library Rev. 41(1992)No 1, p.47-55, 7 refs.*

2-381 989  
 Le Crosnier, H.: Systèmes d'accès à des ressources documentaires. Vers des ante-serveurs intelligents. (Information retrieval systems. Going toward smart gateways) *Orig.fr. Aix-Marseille: Université. These 3e cycle 1990, 347p.*

## 99 Standardization

See also 2-305, -306, -318

2-382 997  
 Sukiasyan, E.: Indexing: a new state standard. *Orig.ru. Bibliotekar, No 9, 1990, p.58-59*  
 The new Russian Standard GOST 7.59-90 "SIBID. Indexing of Documents. General requirements for subject indexing and classification" became effective 1 Jan.1990. The article looks at many points of the new standard. It is seen as a major step in bridging the gap between library and information technologies.

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