

CLASSIFICATION LITERATURE 16(1989)No.3 (89-1025 - 89-1308)

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

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

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III

Divisions of 04, 5, 6, 78, 82, 88 acc. to Information Coding Classification (ICC) described and displayed in Int. Classif. 9(1982)2, p.87-93 and in Int. Classif. & Indexing Bibliogr. I.

A further division of this scheme (by one and sometimes two levels) was published in Int. Classif. 12(1985)No.3, p.147-151

There are abstracts in our holdings to almost all of the references cited. We offer to send copies of these abstracts to anybody interested. Please write to the Editorial Office.

0 FORM DIVISIONS

01 Bibliographies

89-1025 016
Wolner, T.J.: Subject access literature, 1988. Libr. Resources & Techn. Serv. Vol 33, No 3, 1989. p.240-247, 53 refs.
The 53 references - most of them with terse abstracts - are arranged under the following headings: Online environment, LCSH, Thesauri, Subject heading code, Authority control, Classification, Special subject access, Publications and product news.

89-1026 016.715
Neuerscheinungen (auf dem Gebiet der Künstlichen Intelligenz). (New literature (in artificial intelligence)) Orig. de. Künstl. Intelligenz, No 3, 1989. p.76-80
Lists 157 references of new literature in Artificial Intelligence in systematic order: AI foundations (23 titles), Knowledge based systems (9), Picture/language processing, robotics (18), AI languages and tools (17), dissertations (7), journals (3), reports and memos of the research network WISBER (73), publications on the topic of expert systems (7).

89-1027 016.77
Isaak, C.; Puchta, C.: Kleine Bibliographie fachsprachlicher Untersuchungen. (Little bibliography of terminological investigations) Orig. de. Special Language/Fachsprache 11(1989)/No 1-2 p.89-103
12th continuation. Contains bibliographies, collective volumes and special languages (books and articles) in general. Comprises some 250 references.

89-1028 016.77
Krommer-Benz, M.; Scherthner, M.; Infoterm: International bibliography of terminological literature. Wien, AT: TermNet. Int. Network for Terminology 1989. VII, 284p., TermNet Bibliographical Series 1, ISBN 3-901010-01-7
The bibliography covers 3868 entries/references to literature on terminology science and research, methodology, terminology work, including also computerized terminography, terminology data, - standardization, - training and related fields. Proceedings and serial publications, previously published in BT9 and BT11 have also been included. The arrangement is in systematic order according to an outline given comprising 6 major classes with altogether 77 subclasses. U C notations are added "whenever necessary". There is an author index and a subject index of 2 pages only based on the U C. A list of codes for the presentation of periodicals and their full titles (according to ISU 833-1974 covers more than 8 pages.

03 Dictionaries, Terminologies

89-1029 036
Sen, B.K.; Roy, S.B.; Poddar, A.: Glossary of library and information science terms. Orig. en, bengali. Calcutta, IN: Bengal Libr. Assoc. 1988. XXVI, 106p.

89-1030 036.715
Lazure, N.: Vocabulaire de l'intelligence artificielle. (Artificial Intelligence Vocabulary (2 vols.)) Orig. en-fr; fr-en. Ottawa, Ont.: Canadian Government Publ. Centre Supply and Services 1988. XV, 1217p., 282 refs., Terminology Bulletin 184
The bilingual vocabulary contains about 12,000 terms, of which 3,700 are accompanied by definitions. Any comments on the contents of the Vocabulary should be sent to Terminology and Linguistic Services Branch, Translation Bureau, Department of the Secretary of State of Canada, Ottawa, Ont., KIA 0M5.

04 Classification Systems & Thesauri

042 THE UNIVERSAL DECIMAL CLASSIFICATION

89-1031 042.1-hu-71
Hungarian Full UDC Edition. UDC 33: Political Economy. Orig. hu Budapest, HU: Szabványboltban (01101 ut 24), 1989. 33p. FID 390

89-1032 042.1-hu-91
Hungarian Full U C Edition. UDC 8: Language and Literature. Orig. hu. Budapest, HU: Szabványboltban (01101 ut 24) 1988. 43p. F10 390

89-1033 042.3-p1
Uniwersalna Klasyfikacja Dziesiąta. Wydanie skrócone dla potrzeb bibliotek i bibliografii narodowej i bibliotek publicznych. (Polish abridged UDC edition for the needs of current national bibliography and public libraries) Orig. pl. Warszawa, PL: Stowarzyszenie Bibliotekarzy Polskich (ul. Konopczyńskiego 5/7) 1988. 217p., ISBN 83-00-02269-4. FID 667, includes an alphabetical index. It supersedes the 1978 edition (FID 546).

89-1034 042.5-hu
Extensions and Corrections to the UDC. Orig. hu. Vol 13, No 1, 1986(1988). 87p.

89-1035 042.2-pt; 042.8
Classificacao decimal Universal: edicao média em lingua portuguesa, 2 edicao. Parte 2: Indice alfabético. (Portuguese Medium U C Edition. Alphabetical index to Part 1 (publ. 1987)) Orig. pt. Brasilia, BR: IBICT/Setor de Distribuicao SCN (Quadra 2 - 81.K, 70710) 1988. 144p., ISBN 85-7013-009-0, F10 665
In Portugal available through the agency of COCT, Ave. Prof. Gama Pinto, 2, 1699 Lisboa, Portugal.

048.1 OTHER UNIVERSAL SYSTEMS

89-1036 048.1
Atkins, T.V.; Ostrow, R.: Cross-reference index. A guide to search terms. New York, NY: Bowker 1989. 984 p., ISBN 0-8352-1918-6
The index cross references over 40,000 search terms from 8 major indexing and abstracting sources including the LCSH, Readers' Guide to Periodical Literature and the New York Times Index. Search terms are arranged under 1,700 main subject headings, an alphabetical index merges all terms and headings.

89-1037 048.1
Deutsche Bibliothek; Bibliotheksverbund Bayern: Schlagwortnormdatei (SWD), Ausgabe Oktober 1989. (Standard Subject File, Edition of October 1989) Orig. de. Frankfurt, OE: Deutsche Bibliothek 1989. microfiche edition, ISSN 0935-0160
The collection of 45 fiches is attached to a booklet of 36 pages containing a foreword, a list of abbreviations used, hints for users, a systematic survey of all subject fields covered (p.14-28), a list of codes for countries (in systematic and alphabetical order). There are 38 fiches listing the 270 000 subject headings and their references according to the RSMK (rules for subject cataloguing), and 7 fiches carrying a systematic index of all subject headings. The alphabetical part is arranged in the form of a thesaurus with indications of synonyms, related terms, narrower terms. The source of a term (as found in a dictionary) is also given as well as the class number of the systematic survey. An earlier edition appeared under the name "Standardschlagwortliste" (Standard Subject List). The list of reference works used in elaborating the Standard Subject File has been published separately by the Deutsche Bibliothek (as of febr. 28, 1989). It is available by ISBN 3-922051-28-6

89-1038 048.1
NTIS Subject Category Descriptions. Springfield, VA: National Technical Information Service 1989. 36p. PR827/832
This scheme groups all citations announced in the NTIS Bibliographic Database into 39 subject categories which are further divided into 394 subcategories. These are defined in this document.

89-1039 048-26
Platé, H.A.; Papisov, I.M.: A classification of linear single-strand polymers (Recommendations 1988). Pure & Applied Chem. Vol 61, No 2, 1989. p.243-254
Result of a Working Group of the International Union of Pure and Applied Chemistry. Macromolecular Division. Commission on Macromolecular Nomenclature. Preparation period: 1979-1983.

89-1040 048-278
Bondar', V.V.: Information retrieval thesaurus of latex trademarks. Orig. ru. Moskva, SU: VINITI 1988. 47p.

89-1041 048-32
NASA Thesaurus. Vol.1: Hierarchical listing. Vol.2: Access vocabulary. Vol.3: Definitions. Washington, DC 1988. X, 864p., VIII, 402p., VI, 142p.

89-1041a 048-51/4; -817
US Dept. of Health & Human Services, Natl. Inst. of Health: The CRISP Thesaurus, Fiscal Year 1988. Springfield, VA: NTIS 1988. 738p., PB88-189477

The CRISP database contains records detailing research in progress supported by the Public Health Service. The thesaurus is published annually and represents vocabulary appropriate to a particular fiscal year. The bulk of the files originate from the National Institutes of Health and the Alcohol, Drug Abuse, and Mental Health Administration. Until 1986, this volume was titled Medical and Health Related Sciences Thesaurus. It is also the source of subject headings used in publishing the Research Awards Index and the Intramural Research Index.

89-1042 048-62
Paqué, R.: Book review of Dreisprachenliste Vereinte Nationen: Englisch-Französisch-Deutsch. (Three-language list United Nations, en-fr-de). New York: United Nations 1986. 1665p. Vols. I-IV. Orig. de. Muttersprache Vol 99, No 2, 1989. p.180-182
The book includes a hierarchical presentation of organisational units of the United Nations.

89-1043 048-78
Gouedard, A.-M.; Prevel, C.; Ministère des Transports et de la Mer; Observatoire économique et statistique des transports: Thésaurus de socio-économie des transports. (Thesaurus of the socio-economics of transportation) Orig.fr. Paris: La Documentation Française 1988. 238p., ISBN 2-11-002055-5

89-1044 048-93
Chailey, M.-H.: Une proposition de classification décimale pour les besoins des bibliothèques musicales de type multimedia. (A decimal classification proposal for music libraries with multimedia collections (in use at the libraries of Radio-France, Paris, and the National Conservatory of Music in Lyon)) Orig.fr. Fontes Artis Musicae Vol 35, 1988. p.243-56
Presentation of an abridged version of the Dewey Decimal Classification, table 780 Music, which can also be used for the classification of microforms and videos.

05 Periodicals and Serials

89-1045 056-157
Gaines, B.R.; Boose, J.H.: Knowledge Acquisition. An International Journal of Knowledge Acquisition for Knowledge-based Systems. Vol 1, No 1, London: Academic Press 1989. ISSN 1042-8143

The editors are: B.R.Gaines, Department of Computer Science, The University, Calgary, Alberta, Canada and J.H.Boose, Boeing Advanced Technology Centre, Boeing Computer Services, Seattle, WA, USA. The first issue contains the following articles: 89-1045a Boose, J.H.: A survey of knowledge acquisition techniques and tools. 89-1045b Gaines, B.R.: Social and cognitive processes in knowledge acquisition. 89-1045c Meyer, M.A., Mniszewski, S.M., Peaslee, Jr.A.T.: Using three minimally biasing elicitation techniques for knowledge acquisition. 89-1045d Musen, M.A.: Conceptual models for interactive knowledge acquisition tools. 89-1045e Slator, B.M.: Extracting lexical knowledge from dictionary text. 89-1045f Suwa, M., Motoda, H.: Acquisition of associative knowledge by the frustration-based learning method in an auxiliary-line problem.

89-1046 056-77
Budín, G.: IITF News. Newsletter of the International Institute for Terminology Research. Orig. de. Vol.1 (1989) No 1/2, Wien, AT: Internationales Institut für Terminologieforschung (Sensengasse 8, A-1090 Wien).

The first issue contains a short report on the Founding Assembly of the Institute, a forecast on the future structure of IITF and its activities, the list of members with their addresses and a selected bibliography on terminological literature of 163 references, including related fields. A "classification scheme", established by Infoterm is to be used for the classing of the entries. It is still under revision.

89-1047 056-77
Manu, A.; Nedobity, W.: TSH - Terminology Standardization and Harmonization. Newsletter of ISO/TC37 Terminology (Principles and Coordination)". Orig. en. Vol 1 (1989) No 1/2. 33 p. Wien, AT: Infoterm. ISO/TC37 Sekretariat.

The first number reports on conferences and meetings of ISO/TC 37 and its results as well as on related work (e.g. ISO/IEC, IUPAC). There is also information on the ISO/TC37 secretariat, P-members, and liaisons.

06 Conference Reports, Proceedings

89-1047a 06.85-11-11/14
Bakewell, K.G.B.: Book review of Rajagopalan, T.S.(Ed.): Relevance of Ranganathan's contributions to library science. Companion volume to proceedings...1985. New Delhi: Vikas 1988. XI,295p. Int.Classif. Vol 16, No 2, 1989. p.111-112

89-1048 06.87-06-29/1
Tonosaki, M.: Book review of Bock, H.H.(Ed.): Classification and related methods of data analysis. Proc.1st Conf.Int.Fed.Classif.Soc.(IFCS), TH Aachen, 1987. Amsterdam: North Holland 1988. 749p. Orig.ja. Online kensaku Vol 10, No 1, 1989. p.37-38

89-1048a 06.87-06-28/1
Jaenecke, P.: Book review of Bock, H.H.: Classification and related methods of data analysis. Proc.1st Conf.Fed.Classif.Soc., Aachen 1987. Amsterdam, etc.: North Holland 1988. XV, 749p. Int.Classif. Vol 16, No 2, 1989. p.115

89-1049 06.87-08
International Federation of Library Associations: IFLA General Conference, 1987: Papers, Div. of Bibliographic Control, Cataloguing, Classification and Indexing Section. Washington, D.C. ERIC 1987. 37p. ED 299 992

Contains the following papers: 89-1049a Tillett, B.B.: Bibliographic relationships in library catalogs. 89-1049b Gorman, M. Bibliographic description: past, present, and future. 89-1049c Finni, J.J., Paulson, P.J.: The Dewey Decimal Classification enters the computer era. 89-1049d Kelm, B., Traiser, W.: The

usage of classification systems in national bibliographies. 89-1049e Sukiasyan, E.: Classification numbers in Soviet publications: Review of classification systems and regulations of class numbers publication in Soviet books and periodicals.

89-1050 06.88-02-02
Brunt, R.(Ed.): Seminar on the teaching of information storage and retrieval. Proc.of a seminar organised by the Cataloguing and Indexing Group of the Library Association and held at the Thomas Coram Foundation, London, 2 Febr.1988. Cat.& Index, No 92/93, 1989. 16p.

The seminar aimed at examining in particular the disciplines of cataloguing and classification to consider how they relate to other aspects of library and information education and developments taking place outside, especially in information technology. The proceedings cover the papers by R.Bourne (organizer, giving the summarizing report on the seminar), R. Sweeney, S.Kirkham, C.Earl, B.Moon and D.Wintersgill. The names and institutions of the 60 participants are listed also.

89-1051 06.88-03-17/19
Bryant, P.G.: Book review of Wille, R.(Ed.): Klassifikation und Ordnung. Tagungsband d.12.Jahrestagung d.Gesellschaft f.Klassif., Darmstadt 1988. Frankfurt: Indeks Verl.1989. 408p. J.Classif. Vol 6, 1989. p.285-286

89-1052 06.88-03-25/26; 77.19
Schaezzen, C.de (Ed.): Terminologie diachronique. Actes du colloque organisé à Bruxelles les 25 et 26 Mars 1988. (Diachronical terminology. Proc.Symposium held at Brussels on 25-26 March 1988.) Orig.fr. Paris:: CILF; Bruxelles: Ministère de la Communauté franc.de Belgique 1989. 289p.

89-1053 06.88-11-21/25; 715
All-Union Conference on Artificial Intelligence, Pereslavl-Zalesskij, 21-25 Nov.1988. Proceedings. Vol.1. Orig. ru. Moskva, SU 1988. 572p.

Consideration of methodological problems of AI, relationship of AI to natural language problems, knowledge acquisition and representation, and discussion of problems of logical and heuristic computer reasoning.

89-1054 06.88-11-23/25; 153
Bush, G.Ya. (Ed.): Methodological problems of scientific and technical creativity: Proceedings of the All-Union Conference, Jurmala, 23-25 Nov.1988. Orig.ru. Riga: Institut Filos.i prava 1988. 468p.

Contains papers on philosophical problems of creativity, creativity models, meaning and specific features. Also other which discuss the correlation between creativity and everyday consciousness, the systems approach to the analysis of creativity and psychological factors as well as the problems of creativity stimulation in learning, education and the scientific-technical activity.

89-1054a 06.89-01-22/24
Roberts, St.A.: The role of social science information in knowledge creation. ECSSID V Conference, Berlin, GDR, 22-24 Jan. 1989. Orig.en. ECSSID Bull. Vol 11, No 1-2, 1989. p.13-20

89-1055 06.89-02-27/1; 77
All-Union Scientific Conference on Problems of Unification and Standardization of Technical Terminology held from 27 Feb. to 1 March 1989, Jurmala (Latvia). Orig. en. Int.Classif. Vol 16, No 2, 1989. p.105

89-1056 06.89-03-13/17
International Conference on Terminology Standardization and Unification in Theory and Practice, Tunis, 13-17 March 1989. Orig.en. Int.Classif. Vol 16, No 2, 1989. p.105-107

On the occasion of this conference, ArabTerm was established and some workshops were held, e.g. on "Teaching aids in terminology standardization", "Knowledge Transfer Centre based upon an advanced terminology documentation", and on the "Preparation of principles for descriptive terminology work".

89-1057 06.89-02-15/7; 725
Kobsa, A.: Bericht über den Workshop on Formal Aspects of Semantic Networks. Orig.de. Künstl.Intelligenz, No 2, 1989. p.28

89-1058 06.89-04-10/12
Opitz, O.(Ed.): Conceptual and numerical analysis of data. Proceedings of the 13th Conference of the Gesellschaft für Klassifikation e.V., University of Augsburg, April 10-12, 1989 Orig.en. Berlin-Heidelberg-New York, etc.: Springer Verlag 1989. 530p., ISBN 3-540-51641-7

The volume is divided into the four sections of the conference. Section 1 on "Data analysis and classification: Basic concepts and methods" comprises 18 papers, Section 2 "Application in library sciences, documentation and information sciences" (7 papers), Section 3 on "Applications in economics and social sciences" (10 papers), and Section 4 on "Applications in natural sciences and computer sciences" (7 papers). There is a preface by the editor and the chairman W.Gaul, H.Schnelling, and P.O.Degens as well as a list of the authors with

their addresses. No predocumentation, no abstracts, no index. The papers attributed to Section 2 (but not all been given in this Section) are: 89-1059 Eckes, Th.: Knowledge structures and knowledge representation: Psychological models of conceptual order. - 89-1060 Glashoff, Hamm: Qualitative and numerical data in a three-dimensional system. - 89-1061 Leclercq, H.: New concepts and terms during the French Revolution. A classification of the neologisms according to their origin. 89-1062 Lorenz, B.: Einige sprachliche Probleme bei der Arbeit an einer Klassifikation und deren Registern (de). - 89-1063 Schnellling, H.: Data analysis in literary studies. - 89-1064 Thaller, M.: Have very large data bases methodological relevance? - 89-1065 Zoller, P.: Priority-based classification of available information - an important aspect of future user interfaces.

89-1066 06.89-04-17/20; 33
Frankenberger, R.: Automatisierte Sacherschließung. Status und Trends. Seminar der Vereinigung Österreichischer Bibliothekare in Zusammenarbeit mit der Vorarlberger Landesbildungszentrum Schloß Hofen vom 17. bis 20. April 1989. (Computerized subject analysis. State and trends. Report on a seminar) Orig. de. ABI-Techn. Vol 9, No 3, 1989. p.239-240

The report contains short summaries of the papers presented by P.Kubalek, H.Buchhart, G.Auer, F.Lang, H.Jobst, W.Meusburger, H.Haufler, R.Frankenberger, H.-J.Schubert, B.Kelm, W.Stephan, W.Gödert, K.Loth/W.Walser, and K.Rädler. Proceedings of the seminar are to be published early in 1990.

89-1067 06.90-07-9/13
Endogenous Sociological Concepts: A critical problem in developing countries. Call for Papers for the COCTA-sponsored INTERCOCTA Panel at the XII World Congress of Sociology, Madrid, 9-13 July 1990. Int.Classif. Vol 16, No 2, 1989. p.109-110
The overall outline of the purpose of the conference includes also topics and chairmen of the 10 sessions planned together with their addresses.

89-1068 06.90-10-2/4; 77
Czap, H.: TKE'90. Second International Congress on Terminology and Knowledge Engineering Applications. Wissenschaftliche Bedeutung und Zielsetzung. (Scientific significance and purposes) Orig.de. Terminol.et Transl., No 2, 1989. p.267-273
Outlines the ideas underlying the contents of the 10 Sections envisaged for this Congress which is to take place at Trier, Oct.2-4, 1990.

07 Textbooks

89-1069 07.2
Buchanan, R.: Bibliothekarische Klassifikationstheorie. (Theory of library classification) Translated into German by Ute Reimer-Böhner. München, etc.: K.G.Saur 1989. 151p., DM 48.- ISBN 3-589-10788-9
The book was published in English in 1979 by C.Bingley, London. It covers definition and application fields of classification, kinds of class relationships, precombined classification systems and faceted classification, methodological considerations for the solution of ordering problems, construction of a faceted classification, its notation, the alphabetical subject index, universal classification systems, critical comments concerning systematic order, and automatic indexing. A subject index concludes the work.

89-1070 07.77
Arntz, R.; Picht, H.: Einführung in die Terminologearbeit. (Introduction into terminology work) Orig.de. Hildesheim-Zürich-New York: G.Olms Verlag 1989. 344p., Studien zu Sprache und Technik, Bd.2, ISBN 3-487-07235-1
The manual is an updating and enlargement of an earlier volume of the authors. The 12 chapters cover the following: Introduction - Special language and special vocabulary - Basic elements of terminology science: Concept and concept system - Terms - Terminology standardization - Equivalence - Terminological lexicography - Methods of practical terminology work - Terminology work and the computer - Terminology and documentation - Cooperation in terminology - Perspectives of terminology training. Literature. Index.

08 Other Monographs

89-1071 08.3
Pollitt, A.S.: Information storage and retrieval systems. Origin, development and applications. Chichester, GB: Ellis Horwood Ltd. 1989. 175p.
The book comprises the following chapters: 1. Recording knowledge. 2. Classifying and indexing. 3. Searching. 4. Building and searching a database. 5. Front-end systems. 6. From view-data to hypertext. 7. Evaluation. Indexes

89-1072 08.31
Bies, W.: Book review of Rowley, J.E.: Abstracting and indexing, 2nd ed. London: C.Bingley 1988. 181p. Int.Classif. Vol 16 No 2, 1989. p.113-114, 4 refs.

89-1073 08.5-76
Hölzl, J.: Einführung in die Warenlehre. (Introduction into commodity science). Orig.de. München, DE: Oldenbourg 1989. 224p., ISBN 3-486-21334-2

Contains two introductory parts explaining basic concepts and foundations and treats the different approaches of commodity science from the following points of view: consumer-economics, transposition-economics, distribution-economics, and macroeconomics. The latter chapter contains also subchapters on concept systems, commodity classification systems, harmonization of commodity classification, etc. Chapters on commodity terminology and commodity description were included in the second introductory part, mentioned above.

89-1074 08.754
Benson, J.A.; Weinberg, B.H.: Gateway software and natural language interfaces: Options for online searching. Orig. en. Ann Arbor, MI: Plerian Press 1988. 204p.

The book is in two parts (I: Gateways, II: Artificial Intelligence and Natural Language Interfaces for Online Searching). It comprises the following 21 papers with 4 introductory texts for each section. An index has been provided by B.H.Weinberg. 89-1075 Benson, J.A.: Telecommunication software: Introduction 89-1076 Baldwin, C.: Crosstalk XVI. - 89-1077 Dialoglink: a review. - 89-1078 Swartz, B.J.: PC-Talk III: a review. 89-1079 Benson, J.A.: Modem: a review. - 89-1080 Brandwayn Lowe, I.: Smartcom II: a review. - 89-1081 Benson, J.A.: Gateway software: Introduction. - 89-1082 Bell, M.8.; Rivenburgh, E.F.: The impact of front-end software on search training programs in small academic libraries. - 89-1083 Clark, P.M.: Dow Jones Spreadsheet Link: searching and analyzing numeric data. 89-1083 Finlay, C.: Pro-search: software for the Complete Online Searcher. - 89-1085 Tenopir, C.; Lundeen, G.W.: The Sci-Mate Software System: a review. - 89-1086 Ensor, P.: Search Helper: a review. - 89-1087 McKibbin, K.A.; Walker Dilks, C.J. Haynes, R.B.: SearchMaster - gateway software that pays for itself. - 89-1088 Benson, J.A.: SearchWare: a review. 89-1089 Kesselman, M.: Searchworks: a review. - 89-1090 Beck, S.J.: Wilsearch: a review. - 89-1091 Benson, J.A.: Gateway Services: Introduction. - 89-1092 Kelman, G.: EasyNet: a review. 89-1093 Benson, J.A.: The customization of commercially offered gateway services. - 89-1094 Weinberg, B.H.: Natural language interfaces and artificial intelligence: Introduction. - 89-1095 Struminger, L.: Artificial intelligence and expert systems: application in information retrieval. - 89-1096 Doszko, T.E. Weinberg, B.H.: Natural language interfaces for information retrieval. - 89-1097 Beck, S.J.; Benson, J.A.: Bibliography on gateways, front ends, telecommunication software, and end users. - 89-1098 Benson, J.A.: Directory of gateway and telecommunication software. - 89-1099 Benson, J.A.; Beck, S.J.: Gateway and telecommunication software: a glossary.

09 Standards, Guidelines

89-1100 09.38
BS 3700:1988. British Standard Recommendation for preparing indexes to books, periodicals, and other documents. London, GB: British Standards Institution 1988. 17p., ISBN 0-580-16386-5
Review by Philip Bradley in Library Rev. 38(1989)No.1, p.69-70

1 THEORETICAL FOUNDATIONS

12 Conceptology in Classification

89-1101 121
Read, St.: Homophone Semantik für die relevante Aussagenlogik. (Homophone semantics for relevant formal logic) Orig. de. Conceptus Vol 23, No 59, 1989. p.77-89

89-1102 121; 751
Nie, Jianyun: An information retrieval model based on modal logic. Inform.Process.& Management Vol 25, No 5, 1989, p.477-491, 14 refs.

89-1103 121
Vasil'ev, H.A.: Imaginary logic: selected works. Orig. ru. Moskva, SU: Nauka 1989. 263p.

H.A.Vasil'ev (1890-1940) is one of the founders of non-classical logic who advanced and validated the idea of a logic with the laws of non-contradiction and excluded middle. Besides the earlier published papers the book includes the scientist's little known manuscripts and reviews on his works published during his life. A biographical essay is given. (Orig.abstr.)

89-1104 124; 715
Dascal, M.: Artificial intelligence and philosophy: the knowledge of representation. Orig. en. Systems Research Vol 6, No 1, 1989. p.39-52, 35 refs.
Philosophy has recently witnessed a radical critique of the epistemological tradition centered on the notion of representation. It is here argued that such a critique is relevant to

the current endeavors of Artificial Intelligence, both in its broad (i.e. as an attempt to elucidate human cognitive capacities) and narrow (i.e. as a practical concern to develop 'intelligent' systems, e.g. expert systems) definitions. It is shown that many of the recurrent problems faced by AI researchers stem from the espousal of the old paradigm conceptions of 'knowledge', 'understanding', 'justification', and the like. Some suggestions concerning a possible alternative for such conceptions are made. (Author)

89-1105 124; 757
Locuratoio, E.: Knowledge representation in expert systems. Orig.it. Management e inform. Vol 26, No 4, 1988. p.247-254

89-1106 124
Schüler, W.: Methoden zur Wissensdarstellung in Wissensbasen von Expertensystemen. (Knowledge representation in knowledge-based systems) Orig.de. Informatik 35(1988)No 4, p.136-8,140-2

89-1107 124; 757
Struß, P. (Ed.): Schwerpunktthema: Wissensrepräsentation. (Knowledge representation) Orig. de. IT Informationstechnik Vol 31, No 2, 1989. p.89-176

After an Editorial by P.Struß on "Knowledge representation. Farewell to programming?" 8 contributions are given as follows: 89-1108 Laubsch, J.: Towards a theory of knowledge representation. - 89-1109 Reinfrank, M.: Formulae and models: Knowledge representation in logic. - 89-1110 Faltings, B.: Knowledge representation for qualitative reasoning. - 89-1111 Stoyan, H.: Knowledge representation or programming? - 89-1112 Freksa, C.: Knowledge representation and cognitive science. 89-1113 Hårdner, T.: Classical data models and knowledge representation. 89-1114 Görz, G.: Knowledge representation and natural language processing. - 89-1115 Decker, R.: Fundamental literature in knowledge representation.

89-1116 124
Zimnoho, St.: Knowledge representation in expert systems. Orig.pl. Pr.Nauk.AE Wrocławu Vol 411, 1988. p.91-100

89-1117 125
Borisov, V.N. (Ed.): Categorical basis of scientific knowledge: an intercollegiate collection of works. Orig. ru. Kujbyshev, SU 1988. 149p.

89-1118 128-212
Kamlah, A.: Zur Systematik der Massendefinitionen. (On a systematization of mass definitions) Orig.de. Conceptus Vol 22, No 57, 1988. p.69-82, 25 refs.

13 Mathematics in Classification

89-1118a 132
Srinivasan, P.: Intelligent information retrieval using rough set approximations. Inform.Process.& Management 25(1989)No.4, p.347-361, 15 refs.

The theory of rough sets, introduced in 1982 has direct applications in the design and evaluation of classification schemes and the selection of discriminating attributes. Advantages offered by the theory are: the implicit inclusion of Boolean logic; term weighting; and the ability to rank retrieved documents. The theory is described, applied to information retrieval and compared. Finally a small-scale evaluation of rough sets that indicated its potential in information retrieval is presented. (Author, abbr.)

14 Systems Theory in Classification

89-1119 141
Smith, R.L.: Systemic, not just systematic. Orig. en. Systems Research Vol 6, No 1, 1989. p.27-37, 38 refs.

89-1120 141; 242
Xu, Li D.; Li, Ling X.: Complementary opposition as a systems concept. Systems Research Vol 6, No 2, 1989. p.91-101, 37 refs.

89-1121 143; 715
Mechae, V.V.: Intellectics: some aspects of integrated systems analysis. Orig.ru. In: Modelir. i iskusstv. intellekt. Moskva, SU 1988. p.14-22, 30 refs.
'Intellectics' is proposed as an alternative to 'artificial intelligence'.

89-1121a 147
Salthe, St.N.: Self-organization of/in hierarchically structured systems. Systems Research Vol 6, No 3, 1989. p.199-208, 60 refs.
Scalar hierarchies represent the structure of the world of matter in motion, the overall extensive system. Subsystems within this undergo changes that can be dichotomized into development and evolution (individuation). At a higher scalar level these modes of change are united under the rubric 'self-organization'. (Author, abbr.)

15 Psychology and Classification

See also 89-1054

89-1122 152
Loj, A.N.: Consciousness as the subject-matter of epistemology. Orig.ru. Kiev, SU: Nauk.dumka 1988?. 248p.

89-1123 153
Brudnyj, A.A.: On knowledge and the text. Orig. ru. Frunze, SU 1988. p.3-9

89-1124 153
Hilty, L.M.: Zur Terminologie in der Kognitionsforschung - Bericht zum GMD/G1 Workshop in St. Augustin. (On the terminology of cognition research. Report on a workshop in St. Augustin, organized by the GMD and the G1) Orig.de. Künstl.Intelligenz, No 2, 1989. p.25-26

89-1125 153
Shvyrev, V.S.: Analysis of scientific cognition: main trends, forms and problems. Orig.ru. Moskva, SU: Nauka 1988. 176p.

89-1126 153
Ladenko, I.S. (Ed.): The professional's intellectual culture. Orig.ru. Novosibirsk, SU: Nauka 1988. 269p., Sb.nauch.tr.AM SSSR. SO.Inst.filol.i filos.

89-1127 155
Irmeli, H.: The cognitive structure of classification work. Orig.en. In: 44th FIU Conf.and Congr.Aug.28-Sept.1, 1988, Pt.1. Helsinki, FI 1988. p.225-236, 11 refs.
Study of the procedure of book classification performed by 26 librarians and 9 library school students involving 138 books in the area of the social sciences such as sociology, education, ethics, family life. The UDC and the Finnish version of Dewey were used together with the ISO Standard 5963 for document analysis procedures and classification index assignment. Comparison and discussion of the results.

89-1128 155
Nilan, M.S.; Kwasnik, B.H.: A user-oriented method for investigating information classification behaviors. Orig.en. In: 44th FIU Conf.and Congr., 28 Aug.-1 Sept.1988. Helsinki, FI 1988. p.114-121, 3 refs.

16 Development of Science and Classification

See also 89-1054a

89-1129 161
Garfield, E.: What do we know about fraud and other forms of intellectual dishonesty in science? Pt.1: The spectrum of deviant behavior in science. Current Contents, Phys., Chem., and Earth Sci. 27(1987)No.14, p.3-5, 34 refs.

89-1130 161
Garfield, E.: What do we know about fraud and other forms of intellectual dishonesty in science? Pt.2: Why does fraud happen and what are its effects? Curr.Contents: Phys., Chem. & Earth Sci. Vol 27, No 15, 1987. p.3-10

89-1131 161
Popovich, M.V. (Ed.): Structure and meaning: formal analytical methods in modern science. Orig.ru. Kiev, SU: Nauk.dumka 1989. 229p.

The typology of logical structures that represent some fragment of reality in cognition is given. Trends in the development of formal languages of modern science are identified and the role of intensional logic is stressed.

89-1132 162
Ehnlke, I.: Interdisziplinarität und Wissenschaftsinformation. (Interdisciplinarity and scientific information) Orig. de. In: Probl.u.Entwickl.richt.Wissenschaftsinform.mit Sicht 90er Jahre. 5.Wiss.Symp.Akad.Wiss.ODR, Göhren-Lebbin, 12-14 Oct. 1987. Berlin, DO 1988. p.169-183, 15 refs.

89-1133 162
Kedrov, B.M. et al: Sciences and their interrelations: History, Theory, and Practice. Orig.ru. Moskva, SU: Nauka 1988. 287p.
Exploration of the interrelation factors associated with the activity principle and systems science. Discussion of some specific cases of the interaction of sciences.

89-1134 1627
Bühler, A.: Bemerkungen zur methodologischen Einheit der Wissenschaften. Orig.de. Conceptus Vol 23, No 59, 1989. p.99-102

89-1135 1627
Jakowljewitsch, D.: Über einen neuen Versuch der Argumentation für die methodologische Einheit der Wissenschaften. Ein kritischer Kommentar. (On a new attempt of arguing for a methodological unity of the sciences) Conceptus 23(1989)No 58, p.91-98

89-1136 164
Zhemanov, O.I. et al. (Ed.): Scientific and technological progress and creativity in science: summaries of reports towards the B.H.Kedrov Memorial Conference, Pts.1 & 2. Orig. ru. Sverdlovsk, SU 1988. 135+16p.

89-1137 165; 171
Addis, T.R.: The boundaries of knowledge. Orig.en. In: Informatics 9: Meaning Front. Inf.: Proc.Conf., Cambridge, 26-27 March 1987. London, G8 1987. p.99-114, 16 refs.
Three types of 'knowledge' can be identified: asserted (hypotheses and facts), heuristic and inference, the latter may be deductive, inductive and intuitive. Expert system may represent facts in their knowledge bases. The ES logical subsystem models inference processes and uses heuristics. However, Artificial Intelligence systems are currently incapable of consistent formulation of hypotheses and supporting these by inductive reasoning.

17 Problems in Classification

See also 89-1137, 89-1264

89-1138 175
Slizova, D.: Total linguistic support of Czechoslovakia's IKIS KZK (Integrated Library and Information System of the Cooperative Association of Libraries). Orig.sk. Kniz.a ved.inform. 20(1988)No6, p.263-269, 13 refs.
Assessment of the classification systems and indexing languages used in Czechoslovakia's libraries and information centers. The UDC is still the most used system.

18 Classification Research

89-1139 184; 351
Kazanevich, B.L.: Free classification and the information file structuring problem. Orig.ru. Nauch.-tekh.inform.Ser.2, No 12 1988. p.31-34, 6 refs.
Description of an experiment and its results in free classification of description of glasses.

2 STRUCTURE AND CONSTRUCTION OF CS & T

21 General questions of CS & T

89-1140 211
Gopinath, M.A.: Information processing language and development of knowledge base systems. In: 44th FID Conf. and Congr., 28 Aug.-1 Sept.1988. Helsinki, FI 1988. p.305-314, 5 refs.

89-1141 213; 77.99
Kruglova, R.A.: Problems of terminology unification in the field of the database exchange format. Orig.ru. In: Probl.iss-Ted.i razrab.v obl.standartiz. Moskva 1988. p.64-70, 13 refs.
During the work on a standard for database description in the exchange format, three groups of terms were identified: basic terms and definitions pertaining to the research topic; terms commonly used in practical work; and new terms which have not gained wide currency. A conventional typology of databases as an object of description for their identification is included. (Orig.abstr.)

89-1142 217
Plesa, D.: Is the thesaurus a possibility to represent knowledge? Some semantic, logical and epistemic aspects. Orig.ru, en. Probl.de inform.si doc. 22(1988)No 4, p.143-152, 6 refs.

89-1143 218
Leskin, A.A.; Mal'tsev, P.A.: A thesaurus-based model of a distributed information system. Orig.ru. Leningrad, SU: Leningr. Inst.Inform.i avtomatiz., Preprint No.69 1988. p.1-15, 5 refs.

89-1144 218
Polonskii, V.M.: Using a subject heading authority to intensify scientific and practical activity. Orig.ru. Nauchno-tekh.inform., Ser.1 Vol 15, No 9, 1988. p.171-9; transl.into en: Sci.ent.& Techn.Inform.Process. 15(1988)No.5, p.30-34, 3 refs.

22 Elements of CS & T

89-1146 221
Polyakov, O.M.: On systematization. Orig.ru. Nauch.-tekh.inform., Ser.2, No 12, 1988. p.21-28, 7 refs.
An approach to the systematisation problem of finding for a given taxonomy, a system of attributes as an accurate description of the taxonomy is considered. The article explains the need for introducing an indefinite value for each attribute and demonstrates the independence of systematisation param-

eters. An approach to formalising the synthetic aspect of classification, the aspect concerned with predicting new objects and their properties is proposed.

89-1147 222
Berman, B.L.: Form headings in subject cataloging. Orig. en. Libr.Resources & Techn.Serv. 33(1989)No 2, p.134-9, 9 refs.
For more predictable usage of form headings, the Library of Congress should clarify and publicize its own usage of them. Specialized standardized lists could also be compiled. (Author, abbr.)

89-1148 222
Eddison, E.B.; Batty, O.: Words, words, words - descriptors, subject headings, index terms. Database Vol 11, 1988, p.109-13

89-1149 226
Risko, A.: The subject heading semantics. Orig.sk. Kniz.a ved.inform. Vol 20, No 6, 1988. p.256-263, 15 refs.

89-1150 227; 243
Ruchinskaya, E.M.: Syntactic constructions with the copulative conjunction "I" in the subject heading language and ways to remove them. Orig.ru. Sb.nauch.tr./GPNT8 SSSR, No 1, 1988. p.62-66, 6 refs.
Demonstrates the negative effect that conjunctive subject headings have on IR quality, and sketches an approach to eliminating them. (Orig.abstr.)

89-1151 227; 242
Sakharnyj, L.V.: Associative structures in natural language and in the subject indexing language: a problem formulation. Orig.ru. Predmet.poisik v tradits.i netradits.IPS, No 8, 1988. p.5-35, 30 refs.

23 Construction of CS & T

See also 89-1243

89-1152 233
Batty, D.: Thesaurus construction and maintenance. A survival kit. Orig.en. Database Vol 12, No 1, 1989. p.13-20
The six steps in constructing a thesaurus are identified, viz: 1) Definition of the range and depth of a thesaurus, 2) Identification of sources of the raw vocabulary, 3) collection of raw vocabulary, 4) organization of the raw vocabulary into clusters of associated terms, 5) shaping of the raw vocabulary into the word forms to be used in indexing the data base, 6) production of the thesaurus in an appropriated display format. Maintenance involves 1) adding new terms, 2) deleting unnecessary ones, and 3) amending existing ones.

89-1153 231
Bellamy, L.M.; Bickham, L.: Thesaurus development for subject cataloging. Spec.Lib. Vol 80, No 1, 1989. p.9-15, 29 refs.

89-1154 232
Svenonius, E.: Design of controlled vocabularies in the context of emerging technologies. Libr.Sci.Slant Doc.& Inform.Studies Vol 25, No 4, 1988. p.215-227, 12 refs.
Delineates on the changing role of vocabulary control devices such as classification, subject headings, and thesaurus. Identifies the basic issue in the design and development of these devices and their role in the changing information technology. The paper identifies the differentiations needed in the new roles of these devices in database technology. (Author)

89-1154a 233
Andreeva, E.S.: Toward a formalised procedure of translating a sci-tech text into a logically arranged thesaurus. Orig. ru. Moskva, SU: VINITI 1988. 64p., RTI Ser.1

89-1155 233
Rada, R.; Martin, B.K.: Augmenting thesauri for information systems. ACM Transactions on Office Information Systems Vol 5, No 4, 1987. p.378-392, 40 refs.

A thesaurus can be a critical component of an office information system. Access to various sets of documents can be facilitated by thesauri and by the connections that are made among thesauri. In the projects described in this paper, the thesauri are stored and manipulated through a relational database management system. The system detects inheritance properties in a thesaurus and uses them to guide a human expert in decisions about how to augment the thesaurus. (Author)

89-1156 234
Belonogov, G.G.: Sprachliche Sicherstellung automatisierter Informationssysteme. (Computerised information systems (lingware)) Orig.de. Informatik 35(1988)No 5, p.162-6; 180-2, 200, 9 refs.
There has been a continuous development of the field known since the late 60s as 'lingware'. What is currently referred to as 'lingware' comprises a set of measures involved in the development, control, and application of linguistic tools as well as the tools themselves. (Author, abbr.)

89-1157 234
Liskova, A.: Indexing languages for the computerised information system of the State Technical Library in Prague. Orig.cs. Tekhn.knih. Vol 32 (1988)No.7-8, p.202-204, 3 refs. Special attention is given to the Polythetic Structured Word List which was designed by a team of UVTEI-STL and is computer-stored as well as to the Trade Literature and Word List which is under development. (Author, abbr.)

89-1158 234
Pevzner, R.R.: The computerised STI system lingware: an extended interpretation. Orig.ru. Nauchn.-tekhn.inform.,Ser.2, No 12, 1988. p.18-20, 12 refs.

89-1159 234
Sacharnyj, L.W.: The RASPRI linguistic tools. Orig.pl. Zagadn.inform.nauk./OIN PAN, No 2, 1987. p.121-128, 7 refs. RASPRI is a system for subject headings and titles being implemented at the State Public Library in Leningrad. The core of its lingware is composed of algorithms: OSNOVA (truncation) SINTAGMA (recognition of inter-surrogate distance), and SOYUZ (recognition of auxiliary words).

89-1160 237
Güntzer, U.; Jüttner, G., Seegmüller, G., Sarre, F.: Automatic thesaurus construction by machine learning from retrieval sessions. Inform.Process.& Management Vol 25, No 3, 1989. p.265-273, 8 refs. Presentation of an IRS component called TEGEN, which automatically draws conclusions from actual search behavior about possible thesaurus entries. This is done during an iterative knowledge acquisition process: only after explicit or implicit confirmation by other users of the IRS during the knowledge verification process, the results are incorporated into a thesaurus. TEGEN is written in PASCAL using a knowledge-based programming method. (Authors, abbr.)

89-1161 237
Sprunger, K.: XREF: a subject thesaurus generator created with WordPerfect. OCLC Micro Vol 5, April 1989. p.9-10

89-1162 237
Belonogov, T.G.; Kuznetsov, B.A., Pozdnyak, M.V.: Bank of key-words and key phrases in the natural and engineering sciences. Orig.ru. Nauchn.-tekhn.inform.,Ser.2, No 12, 1988. p.35-37 VIRITI's computer-readable document databases served as the basis for frequency lists of keywords and key phrases in the natural and engineering sciences. Such frequency lists were constructed by processing document representatives totalling more than 7 million keywords and key-phrases in 26 subject fields. The total size of the vocabularies was 323,000 lexical units with 230,000 different units. A comparative study of the frequency lists is presented.
24 Relationships

24 Relationships

See also 89-1129, 89-1150, 39-151
For 247 Relational Database Systems, see also 89-1176

89-1163 241
Blanning, R.W.: An entity-relationship framework for information resource management. Inform.& Management Vol 15, No 2, 1988. p.113-119, 24 refs.

89-1164 242; 321
Bonzi, S., Liddy, E.: The use of anaphoric resolution for document description in information retrieval. Inform.Process. & Management 25(1989)No.4, p.429-441, 13 refs. Investigation of two hypotheses concerning the use of anaphors in information retrieval. It is concluded that although anaphoric resolution has potential for better representing the "aboutness" of a document, it may have more value in the representation of the relationships among concepts in the document, rather than in the representation of the concepts themselves. (Authors, abbr.)

89-1165 242; 243
Bauer, G.: Knowledge structures promoting problem solutions. Possibilities of graphic representation of knowledge in thesaurus-like fashion. Orig.en. Int.Classif. Vol 16, No 2, 1989. p.73-81, 6 refs.

89-1166 243
Bolshakov, I.A.: New types of syntagmas for description of syntactic relations in elliptical sentences. Orig.ru. Nauchno-tekhn.inform.,Ser.2, No 1, 1989. p.28-31, 5 refs. A minimum list of 'closing syntagms' is given which are used to restore the conjunction reduction of elliptical sentences. Experiments have been carried out on newspaper texts amounting to 1000 pages (600 elliptical sentences). Closing syntagms connect two coordinated adjectival modifiers or a preposition with an adjectival modifier to the noun, bypassing the noun itself.

89-1167 247; 725
Atzeni, P.; Parker, D.S.: Formal properties of net-based knowledge representation schemes. Orig.en. Data & Knowledge Engg. Vol 3, No 3, 1988. p.137-147, 11 refs.

Net-based knowledge representation schemes use methods common to relational databases, viz. systems of constraints and their implications. Main results of the work refer to transformation of constraints into a system for coloured graphs and networks.

89-1168 247
Miladinovic, R.; Velasevic, D.: Relational schema description language. Orig.en. Informatica 13,(1989)No 1, p.11-21, 13 refs

89-1169 247
Sellis, T.K.: Intelligent caching and indexing techniques for relational database systems. Orig. en. Information Systems Vol 13, No 2, 1988. p.175-185, 50 refs.

25 Numerical Taxonomy

See also 89-1048, -1048a, -1051, -1058

89-1170 252
Krusinska, E.: Two step semi-optimal branch and bound algorithm for feature selection in mixed variable discrimination. Pattern Recognition Vol 22, No 4, 1989. p.455-459, 12 refs.

89-1171 253
Muchnik, I.B.; Rybina, I.A.: Determinative conditions for class isolation in the design of empirical classifications. Orig.ru. Nauchn.-Tekhn.Inform.,Ser.2, No 2, 1989. p.29-34, 10 refs.

89-1172 253
Liu, S.-T.; Tsai, W.-H.: Moment-preserving clustering. Orig.en. Pattern Recognition Vol 22, No 4, 1989. p.433-447, 15 refs.

89-1173 253
Spivak, Sh.: A multisurface method for pattern classification. Pattern Recognition Vol 22, No 5, 1989. p.587-591, 6 refs.

89-1174 253
Tubbs, J.D.: A note on binary template matching. Orig. en. Pattern Recognition Vol 22, No 4, 1989. p.359-365, 20 refs.

89-1175 253
Wahab, H.M.S.A.; Fairhurst, M.C.: An analysis of discriminatory mechanisms in frequency-weighted memory array pattern classifiers. Pattern Recognition 22(1989)No 4, p.411-421, 16 refs.

89-1176 254; 247
Kinukawa, H.: A natural language interface processor based on the hierarchical-tree structure model of relation tables. J.Inform.Process. Vol 11, No 2, 1988. p.83-91, 15 refs.

89-1177 254
Rybina, I.A.: Partitioning systems generated by hierarchy. Orig. ru. Nauchn.-tekhn.inform.,Ser.2, No 3, 1989. p.27-32, 13 refs.

89-1178 255
Katre, U.A.; Krishnan, T.: Pattern recognition with an imperfect supervisor. Pattern Recognition Vol 22, No 4, 1989. p.423-431, 21 refs.

89-1179 258
Sharabchiev, J.T.: Cluster analysis of bibliographic references as a scientometric method. Scientometrics Vol 15, No 1, 1989. p.127-137, 10 refs.

89-1180 258
Sharma, R.: A generic machine for parallel information retrieval. Inform.Process.& Managt 25(1989)No 3, p.223-235, 23 refs.

89-1181 258
Schwartz, C.S.: A study of the application of post-retrieval clustering in bibliographic databases. Syracuse, NY: Syracuse University. PhD Dissertation (UMI-order 86-25849) 1986
Book review in Library Reviews 11(1989)No.1, p.75-77 by Terrence Brooks.

89-1182 258-47
Sobey, P.J.; Semple, E.C.: Detection and sizing visual features in wood using tonal measures and a classification algorithm. Pattern Recognition Vol 22, No 4, 1989. p.367-380, 16 refs.

89-1183 259
Can, F.; Ozkarahan, E.A.: Dynamic cluster maintenance. Inform. Process.& Management Vol 25, No 3, 1989. p.275-291, 26 refs.

26 Notation, Codes

89-1184 265
Kaula, P.N.: Book review of Satija, M.P.: Primer on Ranganaathan's book number. Delhi: Mittal Publ.1987. 87p. Herald Libr.Sci.28(1989)No.1-2, p.100-101

28 Compatibility and Concordance

- 89-1185 288-6
Sebestyen, G.: The international integration effort and its impediment by the indexing languages used in social science IR. Orig.hu. Tud.es műsz.tájék. 35(1988)No 8, p.335-41, 8 refs.

29 Evaluation of CS & T

- 89-1186 292
Ramachandran, M.: Citation order in CC, UDC, and DC. Int.Lib.Movement Vol 11, No 2-3, 1989. p.45-53, 9 refs.
- 89-1187 298-86
Brunning, D.R.: Mass communication thesauri and controlled vocabularies. An evaluation. Washington, DC: ERIC 1987. 15p., 3 refs., ED-287-507; IR-052-184
Intended as a basis for determining how the association for Education in Journalism and Mass Communication (AEJMC) should proceed to meet its controlled vocabulary needs, this paper analyzes and evaluates the major published controlled vocabularies and thesauri used for the retrieval of mass communication literature. (Author, abbr.)

3 CLASSING AND INDEXING

31 Theory of Classing and Indexing

See also 89-1072

- 89-1188 31.07
Prasher, R.G.: Index and indexing systems. New Delhi: Medallion Press 1989. IX, 196p.
- 89-1189 311
Chartron, G.; Dalbin, S.; Monteil, M.-G.; Verillon, M.: Indexation manuelle et indexation automatique. (Manual and automatic indexing) Orig.fr. Documentaliste Vol 26, No 4-5, 1989. p.181-7, 12 refs.
- 89-1190 311
Millonig, H.: Probleme einer medienadäquaten, weil medien-spezifischen Sacherschließung. (Problems of an adequate, specific subject analysis for the application in AV media) Orig. de. AV-Info, Berlin, No 7, 1988. p.3-9
- 89-1191 311
Ogata Yoshihiko: Fundamental knowledge in the information retrieval field. Indexing. Orig.Ja. J.Inform.Sci.& Technol.Assoc. Vol 38, No 8, 1988. p.423-432, 6 refs.
- 89-1192 315
Fugmann, R.: Die Qualität der Indexierung: Reproduzierbarkeit vs. Voraussehbarkeit. (The quality of indexing: reproduceability vs predictability) Orig.de. GDCh Mitteilungsbl., No 15, 1989. p.48-51
- 89-1193 318
Huang Enzhu: Three main design principles of an indexing system. Orig.ch. Bull.China Soc.Lib.Sci., No 1, 1988. p.47-50
- 89-1194 318
Preschel, B.M.: Indexing for print, online, and CD-ROM. In: Amer.Soc.of Indexers. Meeting 20th, 1988, New York, NY. Learned Information 1989. p.52-59

32 Subject Analysis

- 89-1195 321
Plotkina, V.G.: The subject heading as a possible limiting model of the document. Orig.ru. Predmet.polsk v tradits.i netradits.IPS, No 8, 1988. p.122-130, 15 refs.
- 89-1196 323
Czerwohn, H.-J.: Stand und Entwicklungstendenzen bei der Nutzung von Online-Datenbanken für die Analyse von Forschungsfrontgebieten. (State-of-the-art and development trends in using online data bases for the analysis of frontier research fields) Orig.de. In: Wiss.Symposium, Göhren-Lebbin, BDR, 10-12 May 1987. p.386-396
- 89-1197 323
Hutchins, J.: Summarization: Some problems and methods. In: Informatics 9: Meaning Front.Inform.: Proc.Conf.Cambridge, 26-27 March 1987. London, GB 1987. p.151-173, 33 refs.
Research on summarisation has been relatively neglected. Basic linguistic and cognitive complexities of text understanding and summarizing are outlined. Properties of text microstructure and macrostructure and the operations of summarisation are illustrated with a text extract. Current projects automating aspects of summarisation such as FRUMP, SUSY, TOPIC and

the University of Texas macro-rule-based system are reviewed and their limitations examined.

33 Classing and Indexing Techniques

See also 89-1066

- 89-1198 331
Tsay, Ming-yueh: A bibliometric study of indexing and abstracting, 1876-1976. Indexer Vol 16, No 4, 1989. p.234-238, 9 refs.
A total of 2,381 references in Keilisch's Indexing and Abstracting: An International Bibliography were analysed by a PL/I program and the findings are presented.
- 89-1199 333; 88-51/4
Berrut, C.; Chiarabella, Y.: Une méthode d'indexation fondée sur l'analyse sémantique de documents spécialisés: le prototype RIME et son application à un corpus médical. (An indexing method based on a semantic analysis of specialized documents. The RIME prototype and its application on a medical corpus) Orig.fr. Grenoble, FR: (Doctoral thesis) 1988. 206p.
- 89-1200 333
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This paper explores possible advantages for online searching offered by chapter analytics for essay collections in the context of subject information provided by table of contents terminology and format. Descriptors in printouts from the online MLA Bibliography for forty-five essay collections provide examples for discussion purposes.
- 89-1201 337
Butcher, J.E.; Trotter, T.: Building on PRECIS: Strategies for online subject access in the British Library. Paper presented at Meeting No.121 of IFLA General Conference and Council Meeting, Paris 1989. 10p.
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- 89-1203 342
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- 89-1205 3433; 237
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- 89-1206 3434
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- 89-1207 3434
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- 89-1208 345
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- 89-1208 345 CH
Qiu, L.: Applicability of string indexing to the Chinese language with special reference to NEPHIS. Int.Classif. Vol 16, No 2, 1989. p.89-94, 3 refs.
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- 89-1209 346
Eastman, C.H.: Overlaps in postings to thesaurus terms: a preliminary study (of MeSH). In: Proc.ASIS '88. Learned Information 1988. p.181-4

89-1210 348
 Ehrund, H.; Kreplin, K.: Knowledge based document classification supporting integrated document handling. In: Conf. Off. Inform. Syst., Palo Alto, CA, 23-25 March 1988. New York, NY 1988. p.189-196, 12 refs.
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35 Manual and Automatic Ordering

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89-1211 354
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37 Reclassification

89-1212 373
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38 Index Generation and Programs

See also 89-1100

89-1213 381
 Toshiaki, U.: Index construction. Indexing problems. Orig. ja. Joho-no kagaku to gijutsu = J. Inform. Sci. & Technol. Assoc. Vol 38, No 8, 1988. p.413-419, 9 refs.

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89-1216 386; 393
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89-1217 388-92
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39 Evaluation of Classing and Indexing

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89-1220 392
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89-1221 392
 Lee, P.M.: Retrieval differences between term and citation indexing. In: 44th FID Conf. & Congr., 28 Aug.-1 Sept. 1988. Pt. I. Helsinki, FI 1988. p.217-224, 13 refs.

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 Robertson, S.E.; Sparck Jones, K.: Relevance weighting of search terms. In: Document retrieval systems. Taylor Graham 1988. p.143-60
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89-1223 396
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4 ON UNIVERSAL SYSTEMS

42 On the Universal Decimal Classification

89-1225 42.179
 Zajdberg, Kh.M.: The present and likely future of the UDC: a review of foreign materials 1981-1985. Orig. ru. Sb. nauch. tr. / GPNTB SSSR, No 1, 1988. p.20-32, 29 refs.

A critical review of foreign authorities' and scholars' views on the present status of the UDC, the reasons behind its present crisis, and proposed methods for perfecting the scheme. (Author)

89-1226 42.213; 757.42
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89-1227 42.227
 Zajdberg, Kh.M.: Towards the apostrophisation of the UDC and other classificatory indexing languages. Orig. ru. Sb. nauch. tr. / GPNTB SSSR, No 10, 1988. p.33-42, 7 refs.
 Presents a general mechanism of combined specification using the apostrophe in order to upgrade manual catalogues and adapt the language to computer searching. (Author)

89-1228 42.27
 Scibor, E.; Shcherbina-Samojlova, I.S.: A strategic approach to revising the Universal Decimal Classification. In: 44th FID Conf. & Congr., 28 Aug.-1 Sept. 1988. Pt. I. Helsinki, FI 1988. p.248-254, 4 refs..

A proposal for a UDC-revision policy is presented. Transformation of the UDC into a fully-faceted classification scheme should be the ultimate goal of any efforts. (Authors, abbr.)

89-1229 42.271
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89-1230 42.6-56
 Sträter, H.: Zur DK-Revisionsarbeit: Der Stand in der Klasse "Erziehung" (37). Juni 1989, Senec, Tschechoslowakei. (On UDC-revision work: on the present state of class 37: Education) Orig. de. Int. Aufg. DGD Vol 11, No 5, 1989. p.84

89-1231 42.772
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89-1232 42.814
 Borisova, N.D.; Vladimirova, A.V., Kalinina, G.I., Kriventsova, G.A., Smirnova, A.I.: Formalised UDC indexing based on facet analysis: Guidelines. Orig. ru. Moskva, SU: VINITI 1988. 36p.

89-1233 42.984 SU
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 Report on a survey of 142 USSR STI agencies using the UDC.

43 On the Dewey Decimal Classification (DDC)

- 89-1234 43.07
Kawatra, P.S.: Book review of Comaromi, J.P., Satija, M.P.: Dewey Decimal Classification - history and current status. New Delhi: Sterling Publ. 1989. 178p. Herald Libr. Sci. Vol 28, No 1-2, 1989 p.95-96
- 89-1235 43.271
Chan, L.M.: Decimal Classification Editorial Policy Committee annual report: July 1, 1987 - June 30, 1988. Libr. Resources Techn. Serv. Vol 33, 1989. p.66-68

89-1236 43.4
Aman, M.M.; Samore, T.: The Dewey Decimal Classification: edition 20 makes its bow (review article). Wilson Libr. Bull. Vol 63, April 1989. p.41-42

89-1237 43.6
Hjortsoeter, E.: New revised edition of Dewey Decimal Classification. Orig. no. Bok og Bibl. Vol 54, No 2, 1987. p.81

89-1238 43.6-83
Schroeder, C.D.: Digital warrant: revised DDC 004-006 in a public library. Libr. Resources & Techn. Serv. Vol 32, No 4, 1988. p.367-377, 23 refs.

89-1239 43.6-92
Pacey, P.: The classification of literature in the Dewey Decimal Classification: The primacy of language and the taint of colonialism. Cat. & Classif. Quarterly Vol 9, No 4, 1989. p.101-107, 4 refs.
The classification of literature 'by language' can fragment national literatures and create groupings in which parts of the literatures of other nations are subordinated to that of the country of the "mother tongue". A more flexible approach is called for, which will recognize 'place' as the ground of community and culture while not forgetting the importance of language as an element in national and cultural identity.
(Author, abbr.)

44 On the Library of Congress Classification

and on the Library of Congress Subject Headings

89-1240 44.09
Library of Congress. Subject Cataloging Div.: Subject cataloging manual: subject headings. 3rd ed. Washington, DC: Library of Congress. Cataloging Distr. Service 1988. 2 vols, looseleaf

89-1241 44.753
Chan, L.M.: Library of Congress class numbers in online catalog searching charts. RQ Vol 28, Summer 1989. p.530-6

89-1243 448; 236
Dykstra, M.: Can subject headings be saved? Libr. J. Vol 113, No 15, 1988. p.55-58, 4 refs.
Proposal to extract from the LCSH list all of the components that are terms and to build from them a thesaurus, which will list under each term the various LC subject headings that contain that term. The usefulness of such a project is shown.

89-1244 448-519
Mowery, R.L.: Women in literature: a study of Library of Congress subject cataloging. Cat. & Classif. Quarterly Vol 9, No 4, 1989. p.89-99, 1 refs.
Analysis of 164 works of history and criticism of literature related to women's studies. The books were classed in more than 100 different class numbers and spans of numbers.
(Author, abbr.)

89-1245 448-519
Sukiennik, A.: Book review of Dickstein, R., Mills, V.A., Waite, E.J.: Women in LC's terms: a thesaurus of Library of Congress Subject Headings relating to women. Phoenix, AZ: Oryx Press 1988 221p. Cat. & Classif. Quarterly Vol 9, No 4, 1989. p.115-117

89-1246 448-91/2
Studwell, W.E.: Subject suggestions 4: Some concerns relating to literature and language. Cat. & Classif. Quarterly Vol 9, No 4, 1989. p.109-114, 1 ref.
Four policy proposals are presented which affect LC's subject headings for literature and language: a system of period subdivisions for use under those literatures which lack them; a definition of the term "Philology"; subjects for individual radio, TV, and movie scripts; and a relationship between literature and folklore.
(Author, abbr.)

46 On the Colon Classification (RCC)

89-1247 46.07
Satija, M.P.: Manual of practical Colon Classification, 2nd ed. New Delhi: Sterling Publ. 1989. XIV, 224p., ISBN 81-207-0495-9

89-1248 46.27
Husain, A.: A theoretical basis for the accommodation of new subjects in Colon Classification, Edition 7. Int. Classif. Vol 16, No 2, 1989. p.82-88, 13 refs.

89-1249 46.814
Kaula, P.N.: Canons of terminology and classification schemes. In: 44th FID Conf. and Congr., 28 Aug.-1 Sept. 1988. Pt. I. Helsinki, FI 1988. p.299-304, 4 refs.
Out of 39 classification canons formulated by Ranganathan four rules of the verbal plane are discussed.

47 On the Library Bibliographical Classif.

(LBC/BBK)

89-1250 47.984
Fadicheva, E.N.: On the adaptation of the Soviet Library-bibliographical Classification in the GDR. Orig. ru. Bibliotekoved. i bibliogr. za rubezhom, No 120, 1989. p.53-57, 8 refs.
Summary of the East German subject specialists' work of adapting the LBC to the needs of their country's research libraries. Plans foresee the publication of 22 fascicles of an adapted edition, to be grouped into 6 volumes.

48 On Other Universal Systems

89-1251 485
Huber, M.: Die Standardschlagwortliste. (The standard subject authority list) Orig. de. Mitt. Arb. Gem. Jurist. Bibl. u. Dok. wes. Vol 17, No 3, 1987. p.133-9

89-1252 485
Kelm, B.: Die Standardschlagwortliste als Schlagwortnormdatei der Deutschen Bibliothek. (The standard subject authority list as the standard subject authority file of the Deutsche Bibliothek) Orig. de. ABI-Technik Vol 8, No 4, 1988. p.327-328; 330-331

89-1253 485
Stephan, W.: Kooperative Schlagwortnormdatei (SHD). (Cooperative standard subject authority file) Orig. de. Bibliotheksdienst Vol 23, No 3, 1989. p.241-253

89-1254 485.235
Geißelmann, F.: Zur Strukturierung der Schlagwortnormdatei. (On structuring the Standard Subject Authority File) Orig. de. Buch u. Bibl. Vol 41, No 5, 1989. p.428-429, 4 refs.

89-1255 486
Ciganik, M.: A metainformation thesaurus for intelligent information retrieval. Orig. sk. Kniz. ved. inform. Vol 20, No 6, 1988. p.243-251, 11 refs.

89-1256 486.218
Titova, V.A.; Pavlov, A.N.: Using the NASTIS subject heading authority to study information needs. Orig. ru. Nauchno-tekhn. inform. Ser. 1 Vol 15, No 8, 1988. p.12-13; transl. into Engl.: Scient. & Techn. Inform. Process. 15(1988)No.4, p.48-52, 4 refs.

89-1257 487
Moryk, A.: Patent classification as a retrieval language in the technical information field. Orig. pl. SINTO Mater. Metod., No 38, 1988. p.1-76, 32 refs.
The structure of the IPC is described as well as its file organisation for IPC searching and classification of documents.

89-1258 487
Patents Classification. FID-News Bull. Vol 39, No 9, 1989. p.64-65
This reprint from the WIPO Newsletter, May 1989 gives an account of the CAPRI Project, the International Cooperation in the Classification of Search Files according to the International Patent Classification, which was started in 1975 and completed in 1988.

89-1259 489
Boyce, B.R. et al.: A sort procedure for the Superintendent of Documents classification. Gov. Inform. Q. 6(1989)No 2, p.175-92

6 ON SPECIAL SUBJECTS CS & T

89-1260 6265
Gladkova, G.I.; Kalinina, G.R.; Mishchenko, G.L.: Zur Erarbeitung eines zweisprachigen Thesaurus für Klassen organischer Verbindungen (russisch-deutsch). (Towards the development of a bilingual (Russian-German) thesaurus of organic compound classes) Orig. de. Dok./Inform., Schriftenr. Inst. Inform. wiss., Erfundungswes. u. Recht, TH Ilmenau, No 75, 1988. p.129-37, 3 refs.
The thesaurus lists 1413 terms and displays paradigmatic relations based on gross formulas of compound linkages, which include the type and number of links.

- 89-1261 6355
Evtushenko, A.V.; Kursova, O.I.: Design criteria for a subject authority for the STI system of the Pacific Oceanological Institute, Far Eastern Division of the USSR Academy of Sciences. Orig.ru. Nauchno-tekhn.inform., Ser.1, No 3, 1989. p.30-31, 6 refs.
- 89-1262 646
Anzola, M.C.: Thesaurus on seed science and technology. Seed sci.technol. Vol 16, No 1, 1988. p.331-339
- 89-1263 651/4
Humphreys, B.: Unified Medical Language System: Progress Report Int.Classif. Vol 16, No 2, 1989. p.101
- 89-1264 651/4; 172
Klar, R.: Sinn und Unsinn der dreistelligen ICD. (Sense and nonsense of the three-digit ICD (International Classification of Diseases)) Orig.de. Praxis Med.Dok. Vol 9, No 3, 1989. p.33 (Editorial)
- 89-1265 656
Polonskij, V.M.: Application possibilities of a subject heading list to intensify research and practical activity. Orig. ru. Nauchno-tekhn.inform., Ser.1, No 9, 1988. p.17-19, 3 refs.
Using the subject field of public education/pedagogics the potential of a subject heading list in preventing duplication and overlaps in R&D is shown, revealing the pattern of development of research areas, estimating their topicality and novelty, and ordering knowledge. A particularly promising application for a subject heading list is in analyzing the evolution of science, determining its possible growth points, deadlock variants and estimating the degree of development of a subject field. (Author)
- 89-1266 6731
Knapova, B.: Classification of innovations. Orig.cs. Predpok. rozv.vedy a techn. Vol 26, No 10, 1988. p.5-11, 5 refs.
The literature of economics describes a variety of approaches to the classification of innovations: categorisation of innovations according to the magnitude of structural changes occurring in the production process; relating innovation type to cost; and classification of innovations by accruing benefit. When assessing innovations and changes in production processes in relation to innovations, industrial enterprises should recognise the above classifications. (Author)
- 89-1267 6744
Andrusenko, T.B.: The thesaurus and the semantic net, a cast study of a terminology system. Orig.ru. Modeli i sistemy obrab.inform., No 8, 1989. p.80-86, 4 refs.
Procedures of transition from a thesaurus to a network representation of concepts (entities) in a subject field are described. The semantic network elements are represented by terms' recursive linkage strings. A portion of the Microprocessor Engineering subject field is considered by way of illustration. (Author, abbr.)
- 89-1268 6793
Utkina, Yu.E.: Lexico-semantic modelling of terminology systems and a subject field vocabulary. Orig.ru. In: Otrasl.terminol.i ee struktur.-tipol.opisanie. Voronezh, SU 1988. p.123-31, 10 refs.
The lexico-semantic model refers to the field of sewage disposal and purification.
- 89-1269 6817
Plotnikov, N.I.; Khromov, L.N.: A classification of forecasting methods and tools. Orig.ru. In: Soznanie i integratsiya faktor. i dok. IPS. Novosibirsk, SU 1988. p.157-168, 16 refs.
The most widespread methods of forecasting in science and technology are listed and a classification model of forecasting concepts and tools is given.
- 89-1270 6822
Gigch, J.P.van: A classification scheme to guide a journal's publication strategies. Response to Editorial on publication strategies written by John H.Warfield, Systems Research Vol.5 (1988) No.1, p.3-8.
Systems Research Vol 6, No 1, 1989. p.3-5, 4 refs.
- 89-1271 6825
Ciapanauskas, A.: Research libraries in the Soviet library classification system. Orig.ru. Knygotyra, No 14, 1988. p.73-83, 34 refs.
Discussion of terminological issues associated with the typology and classification of libraries. Examination of new trends in the development of library networks and systems. A classification based on the social functions of libraries is suggested.
- 89-1272 6918
Holz, G.: Book review of Ballmer, I.T., Brennenstuhl, W.: Deutsche Verben. Eine sprachanalytische Untersuchung des deutschen Verbwortschatzes. Tübingen: G.Narr 1986. XI, 413p. Orig. de. Muttersprache Vol 99, No 3, 1989. p.280-281
- 89-1273 694
Binwal, J.C.; Karisiddappa, C.R.: Organizing knowledge in the field of creative arts. Libr.Sci.Slant Doc. Vol 25, No 3, 1987. p.138-149
Analyses the basic concepts which provide the central focus to various fields of knowledge in the creative arts. The structural features of these subjects are delineated. The concepts are identified in relation to their manifestation in the (BS) PHEST facet matrix. (Authors)
- 89-1274 694
Busch, J.A.: AAT (Art and architecture thesaurus) user survey. Art Doc., No 8, 1989. p.26
- 89-1275 6967
McIlwaine, I.C.: The subject organization of materials on Africa: an overview of recent work. Orig. en. Afr.Res.& Doc., No 46, 1988. p.17-30, 58 refs.
Discrepancies existing in the handling of African materials in African and in Western libraries are pinpointed. Coordination of national and international efforts for the development of a common approach to standardisation for a broader application as well as the use of shared automatic cataloguing services is recommended.

7 CLASSIFICATION AND LANGUAGE

71 General Problems of Natural Language

- 89-1276 711
Arutyunova, H.D.: Logical analysis of language: knowledge and belief. Orig. ru. Moskva, SU: Nauka 1988. 127p.

- 89-1277 712
Heinz, W.: Computerlinguistik und psychologische Semantik: Einige kritische Anmerkungen zur "Kognitiven Grammatik" von Udo L.Figge. (Computational linguistics and psychological semantics: a critique of cognitive grammar) Orig. de. Sprache u.Datenverarb. Vol 11, No 2, 1987. p.16-24, 14 refs.

- 715 Artificial Intelligence
See also 89-1026, -1030, -1053, -1104, -1121

- 89-1278 715
Lischka, C.: Konnektionismus, KI und Informatik - Einige Anmerkungen. (Connectionism, AI & computer science: some comments) Orig.de. KUnstl.Intelligenz, No 3, 1989. p.38-41, 4 refs.

- 89-1279 715
Majumder, D.D.: A unified approach to artificial intelligence, pattern recognition, image processing, and computer vision in fifth-generation computer systems. Orig. en. Inform.Sci.(USA) Vol 45, No 3, 1988. p.391-431, 80 refs.

- 89-1280 715
Pospelov, G.S.: On the evolution of AI-related problems. Orig.ru. Vestn.AN SSSR, No 10, 1988. p.134-138

72 Semantics

See also 89-1057, -1167

- 89-1281 722
Koropenko, I.V.: A typological characterisation of the structure of English and Russian technical term families. Orig.ru. In: Otrasl.terminol.i ee struktur.-tipol.opisanie. Voronezh, SU 1988. p.58-66, 2 refs.

- 89-1282 722
Lobanova, P.L.; Rozhdestvenskij, Yu.V.: Contrastive structural and semantic study of the general science vocabulary. Orig.ru. In: Otrasl.terminol.i ee struktur.-tipol.opisanie. Voronezh, SU 1988. p.49-57

- 89-1283 722
Krecht, J.: The inner structure and formal expression of the sentences. Orig.cs. Cz.inform. 30(1988)No 7-8, p.204-8, 6 refs

- 89-1284 722
Podpol'nyi, D.F.; Skorokhod'ko, E.F.: Determination of word significance. Orig.ru. Nauchno-tekhn.inform., Ser.2, No 2, 1989. p.9-15, 4 refs.

- 89-1285 723
Devadason, F.J.; Kumbhar, M.R.: Language and indexing language: Nalimov and Gardin revisited. Orig. en. Annals Libr.Sci.& Doc. Vol 35, No 2, 1988. p.58-68, 49 refs.
A study of the salient features of ordinary language is necessary for the design of information storage and retrieval systems in general and indexing systems in particular. So e of these salient features are discussed taking in consideration the works of V.V.Nalimov and of J.-C.Gardin. (Authors, abbr.)

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Memchenko, V.N. (Ed.): Terms in scientific literature and text-books: an inter-collegiate collection of papers. Orig.ru. Gorky, SU: University 1988. 115p.

89-1287 725
Zheleznyakov, M.M.; Kevleva, T.N.; Novitskaya, I.M.; Smirnova, L.N.; Tsejtin, G.S.: An experience in constructing a "Text-Reality" model using associative networks. Orig.ru. In: Mash, Fond rus.yaz.: Predproekt.issled. Moskva, SU 1988. p.140-167, 3 refs.

89-1288 726
Craven, T.C.: Sentence dependency structures in abstracts. Libr. & Inform. Sci. Res. 4, p.401-410
A collection of 87 non-formulaic abstracts, in which anaphoras had previously been coded, was analyzed for structures of semantic dependency between sentences. According to this analysis, 26 of the abstracts contained at least one sentence that was dependent upon more than one other sentence for its meaning. But an automatic structural simplification, based upon an assumption about the use of the dependency structure, allowed the structures of all but six abstracts to be represented as trees. At least some degree of branching was found in the structures of 58 of the abstracts, a number reduced to 35 by automatic simplification. (Author)

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Sevbo, I.P.: Through analysis as a step towards text knowledge structuring. Orig.ru. Nauchno-tekhn. Inform., Ser.2, 1989, No.2, p.2-9, 14 refs.

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89-1292 726
Vasil'jev, V.V.: Text understanding by computers. Orig.ru. Moskva, SU: Prometej 1988. 257p.

89-1293 727
Foss, C.L.: Tools for reading and browsing hypertext. Inform. Process. & Management Vol 25, No 4, 1989. p.407-418, 16 refs.
A drawback of browsing through nonlinear electronic documents is the accompanying sense of disorientation often reported by users. It is difficult to ascertain the layout of the document network so people often lose their place or forget to follow up on tasks they meant to complete, while wondering if they are missing anything relevant to their interests. This article critiques existing approaches to computerized support for browsing and describes four new types of browsers, which have been implemented in the Xerox NoteCards hypertext system. These browsers support the process of pursuing and returning from digressions and facilitate the integration of diverse sets of materials that have been browsed. (Author)

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Garg, P.K.: Abstraction mechanisms in hypertext. Comm. ACM Vol 31, No 7, 1988. p.862-870, 879, 16 refs.
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89-1296 727
Hahn, U.; Reimer, U.: Automatic generation of hypertext knowledge bases. Orig.en. In: Conf. Off. Inform. Syst., Palo Alto, CA, 23-25 March 1988. New York, NY 1988. p.182-188, 18 refs.

75 Question-Answering Systems, Online Techn.

See also 89-1074, -1102, -1241

89-1297 751
Bates, M.J.: Designing online catalog subject access to meet user needs. Orig.en. Paper presented at Meeting No.121 of the IFLA General Conference and Council Meeting, Paris 1989. p.40-24 - 40-26, 15 refs.
Abstract of paper see p.161 of this issue of Int.Classif.

89-1298 751
Gunzenhäuser, R.; Knopik, T.: Knowledge-based human-computer interfaces and software ergonomics. Orig.en. In: Büllinger, H.J.

Gunzenhäuser, R. (Eds.); Software ergonomics. Chichester, GB: Horwood; New York: Halsted Press 1988. p.73-88, 14 refs.

89-1299 751; 981
Furalev, O.A.; Farashyan, O.A.: Vocabulary searching in the databases of the automated vocabulary tools maintenance and use complex of the GPRTB computerised information-library systems. Orig.ru. Sb. nauch. tr./GPRTB SSSR, No 1, 1988. p.43-56, 7 refs.

89-1300 751
Parkinson, St.R.; Hill, M.D.; Sisson, N.; Viera, C.: Effects of breadth, depth, and number of responses on computer menu search performance. Int. J. Man-Mach. Stud. Vol 28, No 6, 1988. p.683-692, 12 refs.

89-1301 751
Schäuble, P.: Improving the effectiveness of retrieval systems by information structures. Inform. Process. & Management Vol 25, No 4, 1989. p.363-376, 20 refs.
A new information structure is presented that aims at increasing the effectiveness of an information retrieval system. It is a manually constructed knowledge representation providing additional information to the retrieval process. To analyze the properties of the new structure, the framework of first-order theories (model theory) is used. Construction and maintenance of such a structure are easier than those of a thesaurus. Also, a retrieval function is presented depending on the new information structure. It takes into account term dependencies and thus increases recall and precision. (Author, abbr.)

89-1302 752
Nohr, H.: Subject access in German-language DPACs: A survey. Orig.en. Int. Classif. Vol 16, No 2, 1989. p.95-100, 35 refs.
Survey of how, in the 14 systems of German university and public libraries, subject access is being applied in practice.

89-1303 753; 987
Forrest, C.; Chapman, K.; Wright, J.: Periodical indexing on disc: a comparative analysis of Infotrac use in three Illinois libraries. Reference Services Review Vol 17, No 1, 1989. p.85-92

89-1304 753; 981
Horner, J.; Thirlwall, D.: Online searching and the university researcher. J. Acad. Libr. ship 14(1988) No 4, p.225-30, 13 refs.

89-1305 753
Ingwersen, P.; Kormell, I.: Modern indexing and retrieval techniques matching different types of information needs. Int. Forum Inform. Doc. Vol 14, No 3, 1989. p.17-22, 27 refs.
Focussing on communication the authors propose practical solutions to key problems in online IR, in particular concerned with ill-defined information requirements, concept interpretation in searching and text representation in indexing. The paper stresses the relationships between different IR techniques and characteristic types of information problems and points to feasible natural language methods and principles of representation adaptable to in-house information systems. (Orig. abstr.)

89-1306 753
Meßing, J.; Mankel, M.: Wissensorganisation zur Dialogsteuerung. (Knowledge organization for dialogue control) Orig. de. Künst. Intelligenz, No 3, 1989. p.25-31, 13 refs.
Discussion of some requirements for the control of the man-machine-dialogue in knowledge-based systems. The point-of-departure are experiences from the WISBER network project which aimed at construction of a natural language consulting system for financial deposits. Distinguishing between area knowledge, subject-dialogue knowledge, and general dialogue knowledge proved necessary in modelling the expert knowledge. Medium and large knowledge based systems require an explicit and separate modelling of such knowledge bases. (transl. orig. abstr.)

89-1307 753
Pernici, B.: Supporting OIS design through semantic queries. In: Conf. Off. Inform. Syst., Palo Alto, CA, 23-25 March 1988. New York, NY 1988. p.276-283, 20 refs.
TODOS (Automatic Tools for Designing Office Systems), a three-year project in the EEC's ESPRIT Programme, has the purpose of providing an OIS (Office Information System) design support environment. A semantic query language is presented, based on a semantic representation of the todos Conceptual Model, where documents (letters, replies, memos, etc.) are represented as a set of semantic types (schemas). The semantic query language is based on set theory and predicate calculus. It provides for aggregation, association, reference, and subtyping. Examples of queries are given.

89-1308 753; 842
Rebrova, M.P.; Popov, S.V.; Shokhin, V.A.: Using the PATSEARCH database and the GET command to identify allied subject fields and their linkage patterns. Orig.ru. In: Aktual. probl. pat.-inf. obespach. gotov. org. MNTK i KP NTP SEV: Veses. semin., Moskva, 27-29 sent. 1988. Tez. dokl. - Moskva, SU 1988. p.78-80.

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