

● FORM DIVISIONS

01 BIBLIOGRAPHIES

7145 Commission of the European Communities: Thesaurus inventory. Orig. en. Luxembourg 1980. 36 p.

7146 Infoterm: International Bibliography of Standardized and Non-Standardized Guidelines for Terminology. Orig. en. Int.Classif. Vol 8, No 2, 1981. p.98-100
List of 41 standardized and non-standardized guidelines for terminology, thesaurus construction and indexing.

7147 Seetharama, S.: Book review of Wellisch, H.: Indexing and abstracting: An international bibliography. Santa Barbara Clio 1980. Orig.en. Int.Classif. Vol 8, No 2, 1981. p.104

02 LITERATURE REVIEWS

7148 Wellisch, H.H.: Year's work in subject analysis: 1980. Orig. en. Libr.Resources Techn.Serv. Vol 25, No 3, 1981. p.295-309, 111 refs.

Covers the development in classification, indexing and abstracting in 1980 under the headings: Theory and general works - Classification schemes - Subject headings and thesauri - Indexing - Automatic classification and indexing - Abstracting - History.

03 DICTIONARIES, TERMINOLOGIES

7149 European Organization for Quality Control (EOQC): EOQC glossary of terms used in the management of quality. 5th ed. Orig. en. Berlin; Köln: Beuth Verlag 1981. 817 p., DM 95.-, ISBN 3-85669-005-0

The 5th edition contains 535 concepts and definitions from the entire field of quality control in English with equivalent terms in German and 16 other languages. The concepts are arranged according to subject groups and numbered consecutively. An alphabetical list of equivalents is added.

7150 Urdang, L., Hoequist, Ch. (Eds.): -ologies & -isms: A Thematic Dictionary. Orig.en. 2nd ed. Detroit: Gale Research Co. 1981. 378 p., \$ 55.-, ISBN 0-8103-1055-4

Definition of over 4300 terms that are ending by -ology, -ism, or similar endings. This 2nd edition adds about 1000 words to the stock of the first one.

04 CLASSIFICATION SYSTEMS AND THESAURI
GENERAL SYSTEMS

7151 Coates, E.; Lloyd, G.; Simandl, D.; FID, Unesco: 850. Système général de classement. Tables et index. Troisième révision. Orig. fr. 's Gravenhage; Paris 1981. 213 p.
French translation of the Broad System of Ordering (BSO), published as FID publ. 564.

045 BLISS CLASSIFICATION

7152 Mills, J.; Broughton, V.; Lang, V.: Bliss Bibliographic Classification. 2nd ed.. Class H: Anthropology, Human Biology, Health Sciences. Orig. en. London: Butterworths 1980. 356 p., ISBN 0-408-70828-X

In the introduction the facet structure of Class H is explained as well as its citation order, alternative arrangements, notation, alphabetical subject index, special problems in Class H. As a practical help in classification a number of examples and a comparison of Class H in BC2 with BC1 is given. The schedule comprises human biology, health sciences, pathology and diseases. There is also an alphabetical index to the schedules with some 16 000 entries.

SPECIAL SYSTEMS

7153 International Atomic Energy Agency: INIS: Thesaurus. Orig. en. Vienna 1981. 756 p., ISBN 92-0-178081-8, IAEA-INIS-13 (Rev.20)

The thesaurus not only covers nuclear physics and reactor technology in depth but also general physics, astrophysics, isotope technology, fabrication and use of nuclear materials and instruments, radiochemistry and radiobiology as well as

administrative, legal and regulatory aspects of the management and control of nuclear energy. In this edition there are 16093 descriptors and 4582 non-descriptors.

7154 Horwood, E.: AQUALINE Thesaurus. Orig. en. Chichester, West Sussex: Ellis Horwood Ltd. Publ. 1981, 45.- engl.Pounds, ISBN 0-85312-266-0

Comprises more than 70 000 terms of the currently known words and phrases to be found in the world's water literature. It lists the terms required to search the Aqualine computer file of abstracts, prepared by the Water Research Centre.

7155 Carus, E.-M.; Grohs-Paul, W.; Schott, H. (Comp.); Informationszentrum Sozialwissenschaften: SOLIS Soziologie-Literaturinformationssystem. Systematische Schlagwortliste. Alphabetische Schlagwortliste. Stand 1981. (SOLIS. Sociology literature information system. Systematic list and alphabetical list of subject headings as of 1981) Orig. de. Bonn 1981. unpag., 2 vols, both ca 1 cm

Contains some 4000 descriptors and 1100 non-descriptors arranged in six groups with two sublevels each and on each level in alphabetical orders. The groupings have not been given names, except for 2 groups. Vol.2 is an alphabetical index to volume 1 via the notation of each descriptor.

7156 Reinemann, H.; Trautwein, K.; Umbreit, K.; Hochschule für Verwaltungswiss. Forsch.inst.f.öff.Verwalt.: Fachordnung Staat und Verwaltung im Fachinformationssystem 11 "Recht und Verwaltung". (Subject order 'State' and 'Administration' in the subject information system "Law and Administration"). Orig. de. Speyer 1980. 101 p.

The subject order consists of a systematic part with four levels of subdivisions and an alphabetical index comprising some 4500 entries.

7157 Cloyd Dake Gull & Ass., Inc.: Thesaurus for the national neighbourhood information exchange. Orig.en.Springfield, Va.: NTIS 1979. 103 p., PB 296412

Covers the physical, economic and social environment. Was prepared for the Department of Housing and Urban Development, Washington, DC.

7158 Fraunhofer-Gesellschaft, Informationszentrum Raum und Bau (IRB): Grobthesaurus Bauwesen. T.1: Projektbericht; T.2: Systematischer Teil; T.3: alphabetischer Teil. (Macrothesaurus for building) Orig. en. Bonn 1980. 116 p., 52 refs.

This thesaurus originated from the indexed material of the databank Regional planning, urban construction, housing and building. It contains a systematic and an alphabetical part, the first one comprising some 20 facets with divisions up to four levels.

7159a Ralston, A. (Ed.): The proposed new Computing Reviews Classification Scheme. Orig. en. Comm.ACM Vol 24, No 7, 1981. p.419-433

Report of the Computing Reviews Category Revision Committee presenting the result of a two years' work. The history and philosophy of the new system are summarized and a description of its specialties is given followed by the system itself on two levels, (1) complete tree without subject descriptors and (2) the tree with subject descriptors. There are nine large groups with 70 subdivisions altogether and 230 subsubdivisions. The descriptors have been added to the latter.

7159b Computer science microthesaurus: a hierarchical list of indexing terms used by NTIS. Orig. en. Springfield, Va.: Natl. Techn. Inform. Serv. 1980. 69 p., PB 80-207814

Integration of the relevant terms from 5 sources to allow easier retrieval for Computer Science terms. More than 800 main terms and their hierarchies are listed expressing software, hardware, systems, and languages.

7160 Moulds, M. (Comp.): International index to television periodicals: list of subject headings. Orig. en. London: FIAT 1980. 30 p.

7161 Kaczmarek, L.; Wulff, H.J.: Spezialklassifikation Allgemeine Sprachwissenschaft. (Special classification 'General Linguistics') Orig. de. DK-Mitt. Vol 25, No 3 1981. p.9-13
Display of a proposal to structure linguistics in 21 groups with 99 subgroups and subsubgroups on 2 and 3 further levels. The concepts are listed in an enumerative way. No index.

7162 Uessler, M.: Probleme der Vermittlung von Fachsprachen im Bereich der Gesellschaftswissenschaften. Konferenz. (Problems of technical languages mediation in the area of the social sciences. A conference report) Orig. de. Z.f. Phonetik, Sprachwiss. u. Komm. Forsch., No 4 1980. p.517-518 Report on a conference which took place from 23-25 May 1979, and which was sponsored by the Institut für Fremdsprachen of the University for Economics, named "Bruno Leuschner".

7163 Inst. Mat. i. Kibernet. AN Lit. SSR: All-Union Conference on Methods of Mathematical Logic in Artificial Intelligence and System Programming, Palanga, Sept. 3-5, 1980. Part 2. Orig. ru. Vil'nius 1980. 270 p. Contains abstracts of papers read at plenary and section meetings of the conference on abstract data types, dialogue systems, and other applied problems of programming. (Orig.abstr.)

7164 Int. Committee on Computational Linguistics: COLING 80. Proceedings of 8th International Conference on Computational Linguistics 30 Sept.-4 Oct. 1980, Tokyo. Orig. en. Tokyo 1980. 625 p. Among the 92 papers presented only a few deal with problems of interest to classification and indexing as e.g.: 7165 Devadason, F.J.: Generation of a thesaurus in different languages: a computer based system. - 7166 Bruandet, M.F.: A conceptual framework for automatic and dynamic updating of thesaurus in information retrieval systems. - 7167 Kinukawa, H. et al: Japanese sentence analysis for automatic indexing. - 7168 Brinkmann, K.-H.: Terminology data banks as a basis for high-quality translation. (See also report by R. Kuhlen, No. 7327)

7169 Kesselmann, R.: International Colloquy: Special Language Research and Theory. Focus: Spanish. Orig. en. Int. Classif. Vol 8, No 2, 1981. p.92-93 Report on a colloquy at Saarbrücken, FRG, Nov. 6-8, 1980 with a short description of the papers presented.

7170 Hadler, P.; Ulber, S.: Kolloquium über die Anwendung der sowjetischen Bibliothekarisch-Bibliographischen Klassifikation (BBK) in wissenschaftlichen Bibliotheken der DDR. (Colloquy on the application of the Soviet Library Bibliographical Classification in scientific libraries of the FRG) Orig. de. Z.bl. Bibl. wes. Vol 95, No 4, 1981. p.162-164 The colloquy took place on Nov. 20, 1980 in Greifswald, GDR.

7171 Seetharama, S.: 18th DRTC Annual Seminar (1981) on Information Analysis and Consolidation. A short report. Orig. en. Int. Classif. Vol 8, No 2, 1981. p.92 The 18th DRTC Seminar took place on Febr. 23-27, 1981. The report mentions also the titles and authors of the 17 papers presented and discussed.

7172 Vorträge Informationslinguistik. (Lectures on information linguistics). Orig. de. Inform 1981, No. 11, p. 8-65. Presentation of five lectures held at a meeting from 27-29 April 1981 in Frankfurt, Gesellschaft für Information und Dokumentation (GIO) cosponsored by the DGD-Committee on Linguistic Data Processing. The lectures: 7173 Kuhlen, R.: Tendenzen der Informationslinguistik und Perspektiven für die Informationspraxis. (Trends of information linguistics and perspectives for information practice) - 7174 Schmitz-Esser, W.: Aktuelle Probleme der Informationslinguistik - insbesondere der Sprachverarbeitung - in der Dokumentation, aus der Sicht der IUD-Einrichtungen. (Present problems of information linguistics - especially in linguistic data processing in information science from the point of view of documentation centers). - 7175 Struss, P.: Verfahren zur Erschließung und Wiedergewinnung natürlich-sprachlicher Informationen im Rahmen des Informationssystems CONDOR. (Information analysis and retrieval procedures for natural language information in the information system CONDOR) - 7176 Knorz, G.: Die Darmstädter Projekte zur automatischen Indexierung WAI und AIR. (The Darmstadt projects on automatic indexing WAI and AIR). - 7177 Zimmermann, H.: Das Projekt JUDO-DS, "Juristische Dokumentanalyse" im Bereich Datenschutz. (The project JUDO-DS "Juridical data analysis" in the field of data protection).

7178 The CONTA Conference. Orig. en. Int. Classif. Vol 8, No 2, 1981. p.101-103 Short report on the CONTA Conference (on Conceptual and Terminological Analysis in the Social Sciences) which took place from May 24-27, 1981 at Bielefeld. Includes the recommendations and the list of the 31 papers presented.

7179 12th Annual Meeting, Classification Society, NAB. Orig. en. Int. Classif. Vol 8, No 2, 1981. p.94-95 List of the 53 papers in the program of the 12th meeting held at Toronto, Canada, May 31-June 2, 1981.

7180 Singh, S.N.: Book review of M.M. Aman (Ed.): Cataloguing and classification of non-Western material: concerns, issues and practices. Phoenix, Ariz. 1980. Orig. en. J. Libr. Hist. Vol. 15, 1980. p.323-324.

7181 Singh, S.N.: Book review of Klassifikation und Erkenntnis (Classification and cognition) Proc. 3rd Annual Meeting, Ges. f. Klassif. April 1979. Frankfurt 1979. Orig. en. Herald Libr. Sci. Vol 19, No 4 1980. p.325-327

7182 Schmitz, E.: Book review of Wynar, B.S. (Ed.): Introduction to Cataloging and Classification. Orig. en. J. Acad. Libr. ship Vol 7, No 1 1981. p.37

09 STANDARDS, GUIDELINES
See also 7146

7183 Directrices para el establecimiento y desarrollo de tesauros monolingües. (Documentation - Guidelines for the establishment and development of monolingual thesauri) Orig. es. Bogotá 1980. 71 p., 12 refs., NC 1476 Columbia's corresponding standard to ISO 2788 with some differences regarding a simpler treatment of the linguistic questions and the inclusion of many examples and illustrations.

1 THEORETICAL FOUNDATIONS OF CLASSIFICATION

11 GENERAL THEORY OF ORDER

7184 Atran, S.: Natural classification. Orig. en. Social Science Inform. Vol 20, No 1, 1981. p.37-91

7185 Zabrodin, V.Yu.: On natural classification criteria. (ru) Naučno-techn. Inform. Ser. 2, 1981. No. 8, p. 22-24, 18 refs. The strong and the weak criteria of classification are considered. The strong criteria contain the necessary and sufficient conditions of naturalness, the weak ones contain only the necessary. Natural is a classification that reflects the law of nature. (Orig.abstr., abbr.)

12 CONCEPTUAL BASIS OF CLASSIFICATION

7186 Böhme, G.: Einstieg in die mathematische Logik. (Introduction into mathematical logic) Orig. de. München: C. Hanser Verlag 1981. 208 p., DM 32.- In the first part propositional laws, normal forms and the propositional conclusion is treated, in the second part syntax and semantics of the predicate calculus is dealt with. Relationships to computer science, mathematics, law and linguistics are covered to a great extent.

7187 Stock, W.: Book review of Cresswell, M.J.: Die Sprachen der Logik und die Logik der Sprache (Logics and language) Berlin/New York: de Gruyter 1979. Int. Classif. 8(1981)No. 2, p.105-107

7188 Coenenberg, W.; et al: Book review of Pawlowski, T.: Begriffsbildung und Definition (Concept formation and definition) Berlin-New York: de Gruyter 1980. Orig. de, Int. Classif. Vol 8, No 2, 1981. p.107-108

7189 Kononov, B.P.: Aspect methods of object comparison. Orig. ru. Naučno-techn. Inform. Ser. 2, No 7, 1980. p.24-29, 15 refs.

7190 Marusenko, M.A.: On the main concept of terminology - scientific-technical term. Orig. ru. Naučno-techn. Inform., Ser. 2, No 8, 1981. p.1-6, 31 refs. The character of relationships between the scientific-technical concept, its term and its definition are considered. (Author, abbr.)

7191 Skvorcov, D.P.; Finn, V.K.: A remark on some extending of a language of multi-valued predicate logic. Orig. ru. Naučno-techn. Inform. Ser. 2, No 8, 1981. p.25-26, 3 refs.

7192 Pritykin, L.M.: The role of concepts of structure in the development of the physical chemistry of polymers. Orig. en. ISIS Vol 72, No 263, 1981. p.446-456, 43 refs.

13 MATHEMATICS OF CLASSIFICATION

See also 7163, 7222

7193 Henzler, R.G.; Sengupta, I.N.; Wagner, G.: Bibliometric evaluations as an information source for the improvement of a literature information system in cancer research. Orig. en. In: Lindberg, D.A.B. et al.; MEDINFO 80. Amsterdam: North-Holland 1980. p.1301-1305

7194 Spal, J.: Fuzzy classification. Orig. sl. Inform.Syst. Vol 9, No 5, 1980. p.413-429, 5 refs.
Presentation of some basic conceptions of fuzzy sets. Outline of problems of classification and conditions under which they are carried out. (Author, abbr.)

7195 Larson, J.A.; Walden, W.E.: Comparing insertion schemes used to update 3-2 trees. Orig. en. Inform.Syst. Vol 4, No 2, 1979. p. 127-136, figs., 4 refs. 13

15 PSYCHOLOGY OF CLASSIFICATION

7196 Banerji, R.B.; Mitchell, T.M.: Description languages and learning algorithms. A paradigm for comparison. Orig. en. Int.J.Policy Inform.Syst. Vol 4, No 2, 1980. p.199-216, 16 refs. 15
Proposal and application of a framework for the comparison of various methods for learning descriptions of classes of objects given a set of training exemplars.

16 DEVELOPMENT OF SCIENCE AND CLASSIFICATION

7197 Lehrer, K.: Übereinstimmung und Wissenschaftswandel. (Consensus and change in science) Orig. de. Conceptus Vol 15, No 35-36, 1981. p.69-76 16

7198 Weinberger, O.: Die Rolle des Konsenses in der Wissenschaft, im Recht und in der Politik. (The role of consensus in science, law and in politics) Orig. de. Rechtstheorie, Beiheft 2, 1981. p.147-165
Treats the concept of consensus, types of consenses, consensus-theory of truth and consensus in science, law and in democratic politics.

7199 Meleghy, T.: Evolution des Wissens und rationale Praxis (Evolution of knowledge and rational practice) Orig. de. Conceptus Vol 15, No 35-36, 1981. p.77-87, 29 refs.
The author concludes that a long-term rationality cannot be reached in a single culture but only when considering human existence totally. He proposes the advancing in a pluralistic way and to apply an attitude of pluralism and tolerance in approaching alternative cultures.

7200 Mirskij, E.M.: Forming the subject of an interdisciplinary research. Orig. ru. Obsčestv.nauki, No 5, 1980. p.82-95, 9 refs.
Proposal to use the following method: to form the research subject as a set of subject representations within the framework of a single scientific discipline. Among the main components are content prerequisites, systematically organized image of the empirical aspect of the discipline, a set of media for obtaining new knowledge about the subject, a set of theories possessing various generality degrees, linguistic tools for building and modifying theoretical descriptions.

7201 Nowak, S.: Understanding and prediction. Essays in the methodology of social and behavioral theories. Orig. en. Dordrecht; Boston; London: D.Reidel Publ. 1980. 501 p., \$15.95, ISBN 90-277-1199-2
13 essays of which the first three deal with the problem of formation and operationalization of sociological concepts. The next four deal with different aspects of the verificational process and inductive analysis in the social sciences. The remainder deals primarily with the problems of theory formation, the main stress being on the analysis of the logical structure of certain approaches to theory construction.

7202 Rožin, V.P.: Laws of science and their classification. Orig. ru. Probl.zakonov nauki i logiki nauč.poznanija. Leningrad 1980. p.3-11
The law is considered as a form of objective connections among various phenomena existing and acting on a certain basis. Known laws in science are seen to perform informative, weltanschauungs, methodological, prognostic and social functions and are considered an objective bases for the purposeful activity of man in rebuilding nature and society.

7203 Ogurcov, A.P.: Disciplinary knowledge and scientific communication. Orig. ru. Obsčestv nauki, No 5, 1980. p.64-81, 9 refs.

7204 Rozov, V.I.: Selective problems in the development of connections among sciences. Orig. ru. Vestn.LGU, No 5, 1980. p.43-47, 13 refs.

7205 Krafft, F.: Astrophysik contra Astronomie. Das Zurückdrängen einer alten Disziplin durch die Begründung einer neuen. (Astrophysics against astronomy. The diminishing of an old discipline by the foundation of a new one) Orig. de. Ber. Wiss.Gesch. Vol 4, No 1/2, 1981. p.89-110, 73 refs.
Since 'astronomy' is still not as yet a rejected science the article is concerned with the displacement of astrometry and

stellar astronomy as the main and solely conceded branches of astronomy by the new astrophysics.

7206 Mollenhauer, D.: Niedergang der Vergleichenden Morphologie - Verlust für die Botanik?. (Decline of comparative morphology - loss for botany?) Orig. de. Ber.Wiss.Gesch. Vol 4, No 1/2, 1981. p.73-87, 36 refs.

7207 Lachmann, R.: Rhetorik - alte und neue Disziplin. (Rhetoric, an old and new discipline) Orig. de. Ber.Wiss.Gesch. Vol 4, No 1/2, 1981. p.21-29, 10 refs.

17 PROBLEMS IN CLASSIFICATION AND INDEXING

7208 Breton, E.J.: Why engineers don't use databases. Indexing techniques fail to fit the needs of the profession. Orig. en. Bull.Amer.Soc.Inform.Sci. Vol 7, No 6, 1981. p.20-23
Complains about the low regard in the use of e.g. Engineering Index seen in the fact that from a community of 700 000 engineers in the USA working in about 100 000 establishments only 1066 annual subscribers see this information. Assumes that it is the low quality of indexing which accounts for this neglect; engineers need information about functions and attributes of devices, this should be known and considered as well as information about products.

19 HISTORY OF CLASSIFICATION

See also 7235, 7385

7209 Scrivner, B.: Carolingian monastic library catalogs and medieval classification of knowledge. Orig. en. J.Lib.Hist. Vol 15, 1980. p.427-444

2 STRUCTURE AND CONSTRUCTION OF CS

21 GENERAL QUESTIONS OF SYSTEMS AND STRUCTURE

7210 Beck, H.: Klassifikation - Schlagwort - Deskriptor. (Classification - subject heading - descriptor) Orig. de. Z.bl.Bibl.wes. Vol 95, No 5, 1981. p.195-200
Response remarks regarding a terminological proposal by J.Dietze under the heading "Informationsrecherchesprache und deren Lexik" in Z.bl.Bibl.wes.44(1980)No.10, p.460-463

7211 Henzler, R.G.: Natural language or thesaurus or classification as information medium for the user. Orig. en. L.Sablic (Ed.); Fourth Int.Congr.on Medical Librarianship, Belgrad, 2.-5.9.1980. Belgrad: Novi Dani 1980. p.39-48

7212 Kowalec, M.: What is a thesaurus?. Orig. pl. Poradnik Bibliotekarza Vol 32, No 6, 1980. p.129-133, 9 refs.

7213 Kolin'ko, V.V.: A structured query language for work with a hierarchical data model incorporating the identification of fuzzy semantics complex objects. Orig. ru. Metod mat. logiki v probl.iskustv.intellekta i sist. programmir. C.2. Vil'njus 1980. p.212-213, 3 refs.
A language called "Query-by-example is described which was developed for a relational data base and a similarly structured language for a hierarchical data base model is discussed.

7214 Hariri, M.: Dynamics of a thesaurus: a quantitative approach. Orig. en. Ann Arbor, Mich.: University Microforms International 1980. 102 p., figs., tables, refs., PhD Thesis
Explores the dynamic property of an information retrieval thesaurus and describes this property through the use of a quantitative method. Establishes a time-dependent model which makes use of a single-link clustering technique and a diversity measure for analysis and demonstration of the trend of changes taking place in a thesaurus over time. The clustering technique is applied to data from 4 editions of the MeSH thesaurus. The same data is used to test an alternative measure of diversity. Results indicate that a thesaurus has a dynamic structure, the model used describes the structure as a function of time, and there is no substantial difference in the pattern of changes reflected by 2 diversity measures.

7215 Szczepanek, W.: Choice of an association method of information retrieval languages exemplified by a key word language and a thesaurus. Orig. pl. Aktual.Probl.Inf.Dok. Vol 26, No 1, 1981. p.7-10

Five variants of associations are proposed and evaluated. The process of selection of an optimal variant is characterized and examples are proposed.

7216 Kosmačova, N.V.; Michajlova, V.P.: On linguistic support to patent retrieval in an automated IRS of descriptor type. Orig. ru. Naučno-techn.inform.Ser.2, No 8, 1981. p.11-17, 7 refs.

Deals with the problem of linguistic support to specialized subject retrieval in patent document files parallel to traditionally systematic retrieval according to IPC codes. A combination of retrieval languages of different organization is envisaged. The completeness of the retrieval increases more than twice in comparison with the traditional systematic retrieval. (Author, abbr.)

7217 Popov, I.I.: A model for accessing the effectiveness of an IR system's linguistic support. Orig.ru. Probl.integracii i vzaimodejstvija avtomatizir.inform.centrov, vchodjašč.v SACNTI. C.2. Moskva 1980. p.128-129

7218 Požariskij, I.F.; Nekrasova, V.L.: Linguistic support for the design and integration of computer-based descriptor-type document retrieval systems. Orig. ru. Probl.integracii i vzaimodejstvija avtomatizir.inform. centrov.vchodjašč.v SACNTI. C.2. Moskva 1980. p.134-136
Discussion of the linguistic support components and the integration stage tasks in the development of the Ministry of Geology's specialized STI system.

7219 Kasumov, F.G.: Linguistic support for factographic IR systems. Orig. ru. Probl.integracii i vzaimodejstvija avtomatizir.inform.centrov, vchodjašč.v SACNTI. C.2. Moskva 1980. p.127-128
Presentation of the principles of a regional automated interdisciplinary information system developed in Azerbaijan and description of the design criteria of its indexing language and its four work modes.

22 ELEMENTS AND SPECIAL STRUCTURES OF CS

7220 Cesarino, M.A.da N.; Pinto, M.C.M.F.: Subject headings as indexing language. Orig. es, Rev.Escola Biblio. Vol 7, 1978, p.268-288

7221 Fujiwara, Sh.; Yokoyama, M.; Ueda, Sh.: Analysis of key-words in chemistry. Orig. en. J.Chem.Inf.Comput.Sci. Vol 21, No 2, 1981. p.66-70
From the approx. 10 000 000 keywords in 3 volumes of CA Condensates for 1977 and 1978, 16 000 keywords were assembled from the 200 most frequently occurring ones in each of the 80 sections and analyzed for cross-correlation, characteristic features, and relationship to 10 000 terms in a separate Japanese Chemical Society (JCS) list. (Authors)

7222 Henzler, R.G.: Bibliometrische Methoden der Termanalyse. (Bibliometric methods of termanalysis) Orig. de. Nacke, O. (Ed.); Institut für Dokumentation und Information Über Sozialmedizin und öffentliches Gesundheitswesen; Zitatelanalyse und verwandte Verfahren. Bielefeld 1980. p.133-182. Also in: Laake, M.v.d.(Comp.): Deutscher Dokumentartag 1979. München: Saur 1980. p.103-105

7223 Pollitt, St.: The careful choice of confusing words. Orig. en. Computing Vol 8, No 30, 1980. p.22, figs.
Assumes that the more precise and exact an information system becomes, the greater the chances of confusion would be. Discussion of the effects of indexing and search techniques on information system efficiency in organisations, the problem of false drops and un-retrieved relevant documents, and the improvement of precision.

23 CONSTRUCTION OF CLASSIFICATION SYSTEMS AND THESAURI

See also 7252, 7392, 7393

7224 Bulgarov, V.A.; Lavrik, V.V.: Joint use of a formal and logico-intuitive method in compiling a specialised IR thesaurus. Orig. ru. Probl.integracii i vzaimodejstvija avtomatizir.inform. centrov, vchodjašč. v SACNTI. C.2. Moskva 1980. p.130-132
In the automatic compilation of the Ministry of Light and Food Industry Machine-building thesaurus a formal construction method was used together with a semantic one. Description of the basic features of the two methods and their implementation.

7225 Cuvillier Plessis, G.: Etablissement d'une liste des vocabulaire contrôlé dans le cadre de l'Ecole des Parents et des Educateurs. (Establishment of a controlled vocabulary list for the school of parents and teachers) Orig.fr. Paris: C.N.A.M. 1980. 194 p., Mem. I.N.T.D.

7226 Devadason, F.J.; Balasubramanian, V.: Automated system for generating thesaurus from subject representations. Orig. en. Ann.Libr.Sci.Docum. Vol 25, No 1-4 1978. p.79-83, 14 refs.
A coding scheme was used developed for augmenting the subject strings to make them suitable for generating a thesaurus. The system is fully automatic and has five phases: the coding phase, term-pair generation phase, coordinate term-pair gene-

ration phase, translation phase and printing phase. Brief description of the system and printout of a model thesaurus using test data of about 60 subject strings in telephony. (Authors, abbr.)

7227 Genin, L.E.: Applying the facet principles and the conception of levels to indexing language design. Orig. ru. In: Predm.poisik v tradicion.i netradicion.Inform.-poiskov. sistemach. Leningrad 1980. p.62-85, 17 refs.
The feasibility of using a faceted indexing language for devising another language, namely the construction of a subject catalogue using the LBC is considered.

7228 Prizment, E.L.: Toward the development of a common subject heading language at the All-Union Book Chamber, as part of the "Bibliography" Automated Information Processing System project. Orig. ru. In: Predmetn.poisik.v tradicion.i netradicion. Inform.-poiskov.sistemach. Leningrad 1980. p.117-125, 3 refs.

24 RELATIONSHIPS

See also 7338

7229 Cvetkov, V.D.; Petrovskij, A.I.; Tolkačov, A.A.: Formalized language of objects description in the system of automated design of technological processes. Orig. ru. Naučno-techn.inform.Ser.2, No 8, 1981. p.18-20, 18 refs.
Description of syntactic structures used in a formalized technology language. A formal description of syntactic structures is given, as well as ways to present the information about separately taken elements of a detail on different levels of detailing. (Authors)

7230 Ebinuma, Y.: Evaluation of automatic weighting in a Boolean retrieval system with thesaurus. II. Weighting search terms and comparison of retrieval performances between the two weighting schemes. Orig. ja. Dokumentesyon kenkyu Vol 30, No 7, 1980. p.293-300
It was found that the relevance ranking scheme applied results in considerable improvements in most retrieval runs but that it is inferior to the weighting of index terms regarding applicability and ranking performances. (Orig.abstr.abbr.)

7231 Klykov, L.D.: Features of use of the GASNTI Subject Authority reference tools. Orig. ru. In: Probl.integracii i vzaimodejstvija avtomatizir. inform.centrov, vchodjašč.v SACNTI. C.2. Moskva 1980. p.129-130
Suggestion that for the equipment of an Authority File regarding its requested duties a set of thesaurus cross-references is required which refer to absolute and conditional synonyms and several kinds of associative relations in addition to the hierarchical ones.

7232 Pokorny, J.; Rakušan, J.; Zahour, J.: Semantic integrity of the relational model of data: the language for the definition of domains. Orig.cs. Inform.Syst. Vol 9, No 5, 1980. p.451-462, 23 refs.
The concept of semantic integrity of the relational data model is specified in the sense of domain definition, structure of relations, operations on them and relational limitations describing other semantic properties of relations. The problems connected with ensuring the semantic integrity are confronted with current approaches to the solution. Further detailed specification of the language for the domain definition is given, including the complete syntax and a proposal for implementation. Support by numerous examples. (Orig.abstr.abbr.)

7233 Walsh, M.E.: Relational data bases. Orig. en. J.Syst. Manag. Vol 31, No 6, 1980. p.11-15
Clarification of basic concepts connected with relational data bases and examination of the structure and access modes of relational data bases.

7234 Čenkeli, T.I.: Towards the definition of first-order language for relational databases. Orig. ru. Naučno-techn. Inform.Ser.2, No 5, 1981, 16 refs.
Considers several basic concepts and facts in the field of relational databases from the point of view of first order language and first order predicates computing, i.e. analyses various definitions of relationship, gives a modified formulation of the thesis that some relationship would answer the functional dependency, and introduces the definition of a special first-order language calling it attribute language. (Author, abbr.)

26 NOTATION

7235 Larisch, R.; Dey, W.: Die Entstehung graphischer Zeichen. (The origination of graphic signs) Orig. de. DIN-Mitt. Vol 60, No 8, 1981. p.439-450, 130 figs., 8 refs.

Graphic signs are only then useful if they can express more exactly and precisely facts than their verbal descriptions. To aid in the understanding of signs their history is described from the very beginning in prehistoric times up to the pictograms of modern times.

7236 Richter, V.: The structure of the location mark. - Orig. cs. Techn.Knih. Vol 24, No 7-8, 1980. p.193-201
General principles and requirements for the structure of the location mark are defined with respect to the organization of the library collection. Possibilities for creating a unified location mark for all kinds of libraries are evaluated and discussed. (Author, abbr.)

7237 Šaljšapina, Z.M.: A notation for semantic data on natural language elements: general structure and some possible applications. Orig. ru. In: Sintaksič. i semantič. komponent lingv. obecpeč. Novosibirsk 1979. p.33-46
The basic items of the language are semantic elements (SE) subdivided into three major classes: categorial, encyclopedic and identifying ones... The proposed language provides a framework for formulating semantic definitions of words and other natural language elements, to be classified according to their type-token semantic features and semantico-syntactic valences. (Author, abbr.)

27 COMPILATION, UPDATING, STORAGE & MAINTENANCE OF CS
See also 7342

7238 Antopol'skij, A.B.: Development of the GASNTI linguistic software in 1976-1980: a summary. Orig. ru. In: Probl. integracij i vzaimodejstvija avtomatizir. centrov, vchodjašč. v SACNTI. Č.1. Moskva 1980. p.14-16
The major projects toward the development of the GASNTI linguistic software are listed and trends in the development of linguistic software for individual systems as well as for tele-access searching are discussed.

7239 Fedisimov, V.I.: A computer-based information language maintenance system: the software. Orig. ru. In: Probl. integracij i vzaimodejstvija avtomatizir. inform. centrov, vchodjašč. v SACNTI. Č.2. Moskva 1980. p.177-180
Description of the system's software which can develop and update a data base, perform automatic flexive and morpheme analysis, make lexical searches, compare vocabularies to identify overlapping and complementary vocabularies, merge pairwise overlapping vocabularies of different thesauri, make printouts on conventional and machine-readable media, perform statistical analysis of thesauri and generate magnetic tapes of thesauri and their fragments.

7240 Ovčarenko, E.K.: Development of data structure synthesis software package. Orig. ru. Vopr. Sistemotekhn., No 5, 1980. p.28-33, 4 refs.
Presents main points of a data structure synthesis methodology. Formulates the problem of synthesis and outlines steps towards its solution. The proposed data structuring method is iterative, which justifies its computer implementation. The composition of the relevant programming set and the function of each of its units are indicated. (Author, abbr.)

7241 Šechtman, N.A.: On the principle of extending a thesaurus. Orig. ru. Naučno-techn. inform. Ser. 2, No 7, 1981. p.10-12, 9 refs.
On the basis of defined stereotypes of word combinations a new method of completing the available thesaurus headings and introducing new ones is suggested. The author considers the semantic information structure in its qualitative and quantitative inhomogeneity and possibility of estimating its completeness depending on influence of new texts upon the dictionary. (Orig.abstr.)

28 COMPATIBILITY AND CONCORDANCES OF CS

7242 Aitchison, J.: Integration of thesauri in the social sciences. Orig. en. Int. Classif. Vol 8, No 2, 1981. p.75-85, 18 refs.
The paper discusses the objectives, characteristics and compilation of the proposed Integrated Thesaurus of the Social Sciences. The Integrated Thesaurus is not intended to supplant well-established thesauri, but to act as a master reference tool, which could serve as an aid in searching across data bases or as a switching mechanism. The first step in compilation should be the merging of terms to form a Descriptor Bank. This can reveal both matches and inconsistencies, but is limited by its verbal and alphabetical approach. To compare the merged terms at the concept level analysis in sub-fields is proposed within a classification framework, preferably one with a faceted structure, such as the second edition of the Bliss Bibliographic Classification. The classification would serve as the master against which the terms from the merged information languages, arranged in a compatibility matrix,

would be compared. The master classification would be modified during interaction with the matrix terms, and emerge as the Integrated Thesaurus in a format similar to that of the BSI ROOT Thesaurus, having a detailed classified display and full alphabetical section. The compatibility data would be displayed either in the classified or alphabetical section. An example is worked out in the sub-field of Unemployment using terms from 5 thesauri and the UDC. Finally consideration is given to multilingual implications, testing and updating. (Author)

7243 Dahlberg, I.: Toward establishment of compatibility between indexing languages. Orig. en. Int. Classif. Vol 8, No 2, 1981. p.86-91, 31 refs.
Outlines previous work done in the field of compatibility between indexing languages (IL), and describes the scope, limitations and advantages of establishing compatibility between IL. Suggests methods for verbal comparisons between IL as well as generation of an alphabetical comparison matrix M1. Conceptual comparisons, however, demand a conceptual reorganization of M1 into a compatibility matrix M2 with its two alternatives, namely a system-related matrix M3 and a hierarchical matrix M4. In conclusion, the use of a compatibility matrix and organizational problems are described. (Author)

7244 Osmolovskij, L.G.; Petuchov, O.A.; Chodorovskij, L.A.: Introduction of data conversion operations into a data model algebra. Orig. ru. Vopr. Sistemotekhn., No 5, 1980. p.41-44, 4 refs.
Defines unary operations in a set of information system schemes. Extends the data model algebra. (Orig.abstr.)

7245 Saraeva, G.A.: On vocabulary compatibility between conventional and non-conventional indexing languages. Orig. ru. In: Predm. poisk v tradicion. i netradicion. inform.-poiskov. sistemach. Leningrad 1980. p.86-103, 5 refs.
The conventional languages compared were the LBC and the subject catalogue language of the M.E. Saltykov-Ščedrin State Public Library and the non-conventional ones were natural language texts and key terms taken from document titles.

3 CLASSING AND INDEXING TECHNIQUES

31 THEORY OF CLASSING AND INDEXING
See also 7208

7246 Anderson, J.D.: Book review of Boroko, H., Bernier, Ch. L.: Indexing concepts and methods. New York 1978. Orig. en. Computers and the Humanities Vol 14, No 3, 1980. p.210-212

7247 Wellisch, H.H.: 'Indexes' and 'indexing' in encyclopedias. Orig. en. Indexer Vol 12, No 3, 1981. p.113-116
A survey of the treatment of the subjects 'index' or 'indexing' was made in seven English-language and twenty foreign-language general encyclopedias, in five encyclopedias of librarianship, and in one specialized encyclopedia. The treatment of these topics is quite uneven and in most instances not up to date. The Societies of Indexers should make efforts to improve this situation. (Author)

7248 Jackson, E.B.: Indexing: a review essay. Orig. en. J. Lib. Hist. Vol 15, 1980. p.320-325

7249 Gödert, W.: Gegenwart und Zukunft der bibliothekarischen Sacherschließung. (Contemporary and future subject cataloguing) Orig. de. Libri 31(1981)No 1, p.30-56, 60 refs.
Discusses and outlines possibilities given through computer use and the new media in library subject cataloguing.

7250 Les informations indexées. (Indexable information) Orig. fr. Condenser, No 1, 1980. p.61-70
Indexable information is the totality of data an indexer chooses to represent as the contents of a document. What he selects and ascribes is called "indexer's record". Indexable information can be represented both, as a structure and as a set of structures. It must be presented in a comprehensible form for the computer as well as for the user.

7251 Manevič, S.M.: On the depth of indexing in a subject catalogue. Orig. ru. In: Predmetn. poisk v tradicion. i netradicion. inform.-poiskov. sistemach. Leningrad 1980. p.27-44, 27 refs.
The following definitions for the concepts of detailing, completeness and depth of subject indexing are suggested: detailed subject indexing is the value characterizing the degree of coverage of document content in a given subject heading; the completeness of subject indexing is the value characterizing the degree of coverage of document content in a search pattern of a document and the depth of subject indexing is the value characterizing the number of 'inputs' in a subject catalogue for a given document.

7252 Mátronová, R.: Indexing and its practical application. Orig.cs. Inform.Spravod. Vol 21, No 3, 1979. p.32-39, 3 refs. Defines indexing and its characteristics. Gives a survey on the operations leading to the construction of an indexing language. Describes the stages in compiling, updating, enlarging and standardizing the glossary of the EK0-INDEX system consisting of 5261 special terms used in the computerized IR system of the Central Library of Economic Literature.

7253 Exemples d'indexation. (Examples of indexing) Orig. fr. Condenser, No 1, 1980. p.75-94
Citation of 10 examples of indexing information with the aid of the system Vercingétorix 1.

32 SUBJECT ANALYSIS
See also 7171

7254 Artamonov, G.T.; Kondrat'ev, I.A.; Čerepanov, E.V.: On correctness of factographical data analysis based on statistical methods. Orig. ru. Naucno-techn.inform.Ser.2, No 7, 1981. p.18-19, 4 refs.
Consideration of major problems of factographical data processing based on the methods of mathematical statistics and discussion of the possibilities of improving the reliability of results of statistical analysis of data on the basis of robust estimates, rank correlations and order statistics.
(Authors, abbr.)

33 CLASSING AND INDEXING TECHNIQUES

7255 Craven, T.C.: A government publication index using direct NEPHIS coding of titles. Orig. en. J.Inform.Sci. Vol 2, No 1, 1980. p.13-21, 13 refs.
Short description of NEPHIS (NEsted PHrase Indexing System) using direct coding of titles with the help of groups of nouns and prepositions. Titles of about 3000 publications of the Canadian Department of Energy, Mines and Resources were coded with NEPHIS tags in order to compare the system with the KWOC method. The results of the comparison are shown.

7256 Hendrix, F.; Wilson, St.: The provision of a subject index at Preston Polytechnic Library and Learning Resources Service. Use of an adaptation of PRECIS at Preston Polytechnic. Orig. en. Program Vol 15, No 2, 1981. p.73-90
Description of the system hardware and software and outline of production routines.

7257 Kazakov, E.N.: Indexing requests online. Orig. ru. In: Probl.integracii i vzajmodejstviya avtomatizir.inform.centrov. vchodjač.v SACNTI. Č.2. Moskva 1980. p.125-126
The entire information required for the indexing of requests is displayed on the screen. A fixed list of commands, each responsible for a specific operation is used. Description of the methods used and supply of a list of commands and examples of processing of selected requests.

34 AUTOMATIC INDEXING

7258 Andreewsky, A.: Le système d'indexation automatique et d'interrogation en langage naturel "SPIRIT". (The automatic indexing and query system in natural language named "SPIRIT") Orig. fr. Bull.Centre Hautes Etudes Int.Inf.Doc.(CID), No 1, 1981. p.33-35
Description of the performances of SPIRIT.

7259 Hahn, U.: Ein Vergleich automatischer Indexierungsverfahren. (A comparison of automatic indexing procedures) Orig. de. Nachr.Dok. Vol 32, No 4/5, 1981. p.205-206
Report on a workshop, held at 28-29 April at the GID, Frankfurt with four automatic indexing procedures being presented and discussed under the following points of view: (1) Syntagmatic relationships, (2) Paradigmatic relationships, (3) Weighting procedures, (4) Utilization in retrieval systems, (5) Evaluation methodology. The four procedures under development are: AIR (TH Darmstadt), Automatic Key Phrase-Indexing/DETECT (GID Frankfurt), CONDOR (Siemens München), JUDO (University of Saarbrücken).
The papers are published, see Class.Lit.No. 7172-.

7260 Assistance de l'ordinateur à l'indexation: Principes généraux. (The aid of the computer in indexing: General principles) Orig. fr. Condenser, No 1, 1980. p.71-74
Demonstration of the computer aided indexing in the system Vercingétorix which can be rendered at several levels: automatic numbering of information language units and symbols, renumbering if changes made in the process of indexing, control over the correctness of grammar structures and testing of correspondence, signals about errors and deviations from syntactical rules, optimisation of indexing, training of an indexer, etc.

7261 Jarovenko, O.I.: Certain problems of the use of dictionary techniques to computerise document indexing. Orig. ru. Moskva 1980. 18 p., 21 refs., Ms.dep.with VINITI, No.3237-80
Brief review of types of dictionaries used in automatic indexing and consideration of possibilities of their use.

7262 Rajkov, A.N.: Principles of naturality in the methods of automatic classifying of documents and their application significance. Orig. ru. Naučno-techn.inform.Ser.2, No 6, 1981. p.25-27, 18 refs.

The author proposes a variant of systematizing the totality of principles of natural automatic classification. The formal apparatus for realizing these principles by means of an algorithm of natural automatic classifying has been created. A theorem on presence of a common meron in the documents being semantically connected with each other is proved. A method is suggested for evaluating a priori the frequency of merons reflecting topical properties of a document set. The proposed algorithm can be used when automatically creating a systematic rubricator or a classified index of a thesaurus.
(Orig.abstr.)

35 SHELVING AND AUTOMATIC ORDERING

7263 Valentukoneneju, R.S.: On the possibility of cluster representation of links between relational data objects. Orig. ru. In: Metody mat.logiki i probl.iskusstv.intellekta i sist.programmir. Č.2. Vil'njus 1980. p.149-151, 3 refs.
The arrangement of a data base will vary from model to model (relational, hierarchical, network, etc.) and will depend entirely on the structuring method used. Establishing matches between data from different structures of one model is independent of the arrangement and takes place at the manipulation language level. This is the main shortcoming which detracts from the dependability, integrity and flexibility of existing models and adds to the procedural quality of the inquiry approach to representing a subject field as a structure given on a set of like objects.

7264 Petrušina, T.I.: Cluster methodology of DBMS design. Orig. ru. In: Metody mat.logiki v probl.iskusstv.intellekta i sist. programmir.Č.2. Vil'njus 1980. p.230-232, 5 refs.
Report on the implementation of a DBMS as a part of a software package for handling astronomical problems, a development at the Institute of Theoretical Astronomy, USSR Academy of Sciences.

7265 Kaliničenko, L.A.: Axiomatic extensions of a conceptual data model which are equivalent to traditional data models. Orig. ru. In: Metody mat.logiki v probl.iskusstv.intellekta i sist. programmir. Č.2. , Vil'njus 1980. p.196-198, 2 refs.
Presentation of a method for axiomatic extension of the conceptual model.

7266 Skorubskaja, G.A.; Usol'cev, B.P.: Towards the choice of data base structure. Orig. ru. Dialog Sistemy, No 3, 1980. p.85-91, 3 refs.

The problem of the choice of structure for physical records in interactive system data bases is addressed, given the relations on the set of data elements and the admissible strategies of element accessing. Two linear programming problems with Boolean unknown quantities are formulated which permit to optimise data base size at access time limitations or to minimize access time at size limitations. Recommended solutions paths are presented.
(Orig.abstr.)

7267 Hyman, R.J.; University of Illinois. Graduate School of Library Science: Shelf classification research: past, present - future?. Bibliographical essay. Orig. en. Urbana, Ill. 1980. 60 p.

36 CODING

7268 Gombosi, M.: Theoretical principles of coding and its applications in information practice. Orig. hu.Tud.tájékö.elemélete és gyakorl., No 25, 1980. 65 p., figs.

The concepts of codes, coding and decoding are defined and classification of codes and information measurement problems are explored, with emphasis on code searching and compilation. Shannon-Fano and Gilbert-Moore codes are analysed. Practical recommendations on coding, purpose of coding, building code systems, number and quality of codes are given. The codes that can be constructed using a single set of signs to suit different kinds of logical and physical patterns of data storage and to take account of data being coded are considered in brief.
(Orig.abstr.abbr.)

7269 Krishnamurthy, E.V.; Lynch, M.F.: Analysis and coding of generic chemical formulae in chemical patents. Orig. en. J.Inform.Sci. Vol 3, No 2 1981. p.75-79, 20 refs.
A formal linguistic approach to the representation of generic chemical formulae in chemical patents, within the context of

the use of the ALWIN line-formula notation. The objective of the representation is to permit searches for specific structures and for substructures which are included within the generic expression. The relevance of pattern analysis methods to this problem is highlighted, and preliminary suggestions on algorithm development are put forward. (Author)

39 EVALUATION OF INDEXING
See also 7223, 7230, 7258, 7259

7270 Fontalina, M.N.: Analysis of compatibility of subject indexing done at the All-Union Book Chamber with that done at a State Public Library and at the State Central Medico-Scientific Library. Orig. ru. In: Predmetn.poisik.v tradicion.i netradicion.inform.poisikov. sistemach. Leningrad 1980. p.9-26, 12 refs.

7271 Schreiber, H.: Vergleichende Untersuchung des Freiwort-Indexierens und des thesaurusgebundenen Indexierens. (Comparative investigation of free indexing and thesaurus-controlled indexing) Orig.de. Informatik Vol 28, No 2, 1981. p.31-33, 6 refs.

Description of methods used letting eight indexers index three documents by free terms and by thesaurus-controlled terms resulting out of the free indexing. Evaluation of results of comparison, finding of laws, esp. parameters of typical indexing lines (Indexierkennlinien) and conclusions.

4 ON UNIVERSAL SYSTEMS

41 ON UNIVERSAL SYSTEMS IN GENERAL

7272 Bury, S.: Comparison of classification schemes for libraries. Orig. en. Libr.Sci.Slant Doc.17(1980)No 3, p.73-82, 41 refs.

Discusses the basic criteria for comparison of classification for libraries. Identifies a set of intellectual criteria, derived from the general theory of library classification as expounded by Dewey, Bliss and Ranganathan. Compares LCC, DDC and Bliss BC in relation criteria, namely with relation to order: universality, hospitality, adaptability, terminology, relationship, synthesis; and with relation to notational features: simplicity, brevity, expressiveness, specificity, synonymity, flexibility, correlation, ease of use, revision and practical use. Highlights the value of comparative studies among classification schemes. (Orig.abstr.)

7273 Sokolov, A.V.; Grinina, R.F.: Problems in the evolution of a general theory of library-bibliographic IR languages. Orig.ru. Nauč.i Techn.Bibl.SSSR, No 10 1980. p.7-16, 21 refs.

42 ON THE UOC

7274 Lau, B.; Winkel, A.: Verbal indexing as a supplementary retrieval system to the UDC. Orig. sv. Tidskr.Dok. Vol 37, No 1, 1981. p.10-17

7275 Regt, W.F.de; Wijn, J.H.de: Handleiding UDC: zoekgebieden, constructie, gebruik. (Introduction to the UDC: subject fields, construction and application) Orig. nl., Muusses, P.O.B.13, Purmerend 1981. 184 p., ISBN 90-231-9017-3

7276 Vladimirova, A.V.: A method of transforming UDC notational situations into facet form. Orig. ru. Naučno-techn.inform.Ser.2, No 6, 1981. p.18-24, 5 refs.

An algebraic approach to evaluate the possibility of re-formation of a special UDC division according to facet principles is suggested. (Author, abbr.)

7277 Orlikova, O.L.; Litvinenko, A.A.: Systematisation of documents on lubricants and lubrication using the UDC system. Orig. ru. Naučnye i Techn.Bibl.SSSR, No 11, 1979. p.15-18

The Classification Council of the USSR Committee on Science and Technology investigated the use of the UDC classes on lubrication. Results of the study and recommendations on how to use the UOC in this field are given.

43 ON THE DOC

7278 Asundi, A.Y.: Common subdivisions of Dewey Decimal Classification editions 12-19: a comparative study. Orig. en. Libr.Sci.Slant Doc. Vol 17, No 4, 1980. p.83-89, 5 refs.

The comparison includes idea plane aspects such as additions of new standards subdivisions, revision of the scope of divisions, relation of existing subdivisions and verbal plane aspects such as terminological currency and consistency. Tables show the development in the different editions of the headings as well as of the first and second order array.

7279 Kaula, P.N.: Book review of J.C.Downing, M.Yelland: Dewey International. London 1977. Orig. en. Herald Libr.Sci. Vol 19, No 4, 1980. p.330-331

44 ON THE LCC AND LCSH

7280 Colvin, L.C.: Book review of L.M.Chan: Library of Congress Subject Headings: Principles and applications. Littleton, CO: Libraries Unlimited 1978. Orig. en. Libr.Quart. Vol 50, No 1, 1980. p.148-150

7281 Olson, N.B. (Ed.): Library of Congress classification number index to the MARC data base, 1968-1978. Computer composition by SOC search serv. Orig. en. Santa Monica, Cal.; Arlington, Va.: Carrollton Press 1978-

7282 Olson, N.B. (Ed.): Cumulative subject index to the MARC data base, 1968-1978. Computer composition by SOC search serv. Orig. en. Santa Monica, Cal.; Arlington, Va.: Carrollton Press 1978-

7283 Wepsiec, J.: Language of the Library of Congress Subject Headings pertaining to society. Orig. en. Libr.Resources Techn.Serv. Vol 25, No 2, 1981. p.196-203

7284 Lyle, St.P.: Library of Congress career-related subject headings. Orig. en. RQ Vol 19, No 3, 1980. p.254-255

A list of headings is provided based on the LC Subject Headings assigned to the approx. 400 books on careers in the University of Northern Iowa.

45 ON THE BLISS BIBLIOGRAPHIC CLASSIFICATION

7285 Kaula, P.N.: Book review of Mills, J., Broughton, V. (Eds.): Bliss Bibliographic Classification, Ed.2. London: Butterworths 1977. Orig. en. Herald Libr.Sci. Vol 19, No 4, 1980. p.331-332

46 ON THE COLON CLASSIFICATION

7286 Shepherd, M.A.: Text passage retrieval based on Colon Classification: retrieval performance. Orig. en. J.Docum. Vol 37, No 1, 1981. p.25-35, 13 refs.

Report on the results of experiments testing the suitability of the Colon Classification as a foundation for the automated analysis, representation and retrieval of information from the full text of documents. Overall it was found that the Colon Classification-based systems did not perform significantly better than the other systems. (Author, abbr.)

47 ON THE LIBRARY BIBLIOGRAPHICAL CLASSIFICATION

See also 7170

7287 Problems of library and bibliographic classification of printed works Orig. ru. Leningrad 1979. 184 p. Collection of papers summarizing the research experience of the Classification Division, M.E.Saltykov-Schedrin State Public Library.

7288 Parijskij, V.L. To refine and widely use the Soviet Library-Bibliographical Classification. Orig.ru. In: Probl.bibl.-bibliogr.klassifik.proizvedenij pecati. Leningrad 1979. p.7-19 The LBC was officially recognized on 29 Sept.1978 through an order of the USSR Ministry of Culture. Main directions of the continued improvement of the LBC schedules and ways of their implementation are reported on.

7289 Černaya, T.A. Structural role and place of environmental technology in an edition partly organised by facets of LBC. Orig. ru. Bibl.Akad.Nauk SSSR Sbor.Nauč.Trud., No 2, 1980. p.34-48, 5 refs.

7290 Kruk, N.S.; Moskalev, L.L. Perfection of the LBC tables for the division 113. Orig. ru. Bibl.Akad.Nauk Sbor.Nauč.Trud., No 2 1980. p.49-62, 5 refs.

7291 Komarova, V.P. Perfectioning of the LBC tables 20 in the divisions "Ancient Islandic literature and literature of the Scandinavian countries." Orig. ru. Bibl.Akad.Nauk SSSR, Sbor.Nauč.Trud., No 2, 1980. p.63-75

7292 Suchmaneva, E.G. Some problems of establishing facets within the LBC. Orig. ru. Bibl.Akad.Nauk SSSR, Sbor.Nauč.Trud., No 2, 1980. p.20-33, 10 refs.

48 ON OTHER UNIVERSAL CLASSIFICATION SYSTEMS

7293 Bayer, A.: Patent classification and information retrieval services. Orig. en. Indexer Vol 12, No 3, 1981. p.117-124

Covers the sources of patent information, the user group, the classification key, the indexes, computer facilities, file-list services and the classification section of the Patent Office which is responsible for the maintenance of bibliographic and classification data records, the revision of the UK Classification Key, general documentation matters, work in

connection with the revision of the IPC and international standardization, and advice to the public and industry on classification, documentation and related matters.

7294 Claus, P.; Hansson, B.: The International Patent Classification. Orig. en. World Patent Information Vol 2, No 1, 1980. p.13-20, 8 figs.
On Jan.1 1980 the 3rd ed. of the IPC came into force, meaning that on that date almost 50 Industrial Property Offices throughout the world began applying this 3rd ed. Underlines the importance of the event and considers the structure and philosophy of the IPC in detail. (Orig.abstr.amend.)

7295 Lebedinskaja, E.M. The development of the International Patent Classification and the use of IPC in scientific and technical libraries. Orig.ru, Naučn.i Techn.Bibl.SSSR No.11, 1979. p.9-15, 15 refs.
Reviews the history of the IPC and examines the differences between IPC and UDC.

7296 Schreiber, H.: Anwendungsanalyse der Internationalen Patentklassifikation. (Application analysis of the International Patent Classification) Orig.de. Informatik Vol 28, No 3, 1981. p.29-31, 4 refs.
Description of the experiment and its evaluation. In comparing the results of this investigation regarding the dependency of indexing accuracy from indexing depth with results from a similar experiment in the field of indexing by descriptors it was found that the IPC failed to a greater extent. Descriptor indexing seems to be more precise.

7297 Sokolovskaja, T.B. Principles of creating the rubricator of a scientific and technical information system of a university. Orig.ru. Naučno-techn.inform.Ser.2, No 6, 1981. p.15-17 11 refs.

5 ON SPECIAL OBJECTS CS (TAXONOMIES)

51 NUMERICAL TAXONOMY
See also 7179

7298 Blanz, W.E.; Reinhardt, E.R.: Image segmentation by Pixel Classification. Orig. en. Pattern Recognition Vol 13, No 4, 1981. p.293-298, 11 refs.

7299 Dobbener, R.; Universität Bamberg: Zur Invarianz von Klassifikationsverfahren. (On the invariance of classification procedures) Orig. de. Bamberg 1980. 53 p., 4 refs.
In the first section invariant and data independent metrics are characterized for certain families of transformations of IR^n . In the second one a conception for the description of invariance behaviour of value functions (Gütefunktionen) is developed and applied to a class of maximum-likelihood value functions.

7300 Dobbener, R.: Zur Skalen- und Translationsinvarianz von Metriken. (On the invariance of metrics R^h under certain families of transformations of R^n) Orig. de. Intern.Classif. Vol 8, No 2 1981. p.64-68, 4 refs.
A problem of special interest in the field of cluster analysis is the characterisation of the metrics on IR^n which are invariant under certain groups of transformations of IR^n . If all variables under consideration are measured on an interval scale it is appropriate to use metrics which are invariant under the group of transformations generated by the diagonal $n \times n$ -matrices and the translations of IR^n . The characterisation of these metrics leads to a frustrating result: This article proves that any metric invariant under this group of transformations treats the interval variables as classificatory variables. In case of ratio variables one can restrict one's attention to IR^{n+} and the group of positive diagonal-matrix-transformations of IR^{n+} . The result is better now: A logarithm-like mapping of IR^{n+} to IR^n makes it possible to identify these metrics with the (well known) translation-invariant metrics on IR^n . (Author)

7301 Finetti, B.de: Wahrscheinlichkeitstheorie. Einführende Synthese mit kritischem Anhang. (Probability Theory) Orig.de. Wien; München: R.Oldenbourg Verlag 1981. 819 p., DM 128.-, ISBN 3-486-44701-7
Probability theory is the basis of mathematical statistics and all its practical applications. There are two main directions in probability theory, a subjective and an objective one. This book favors the former.

7302 Sklansky, J.; Wassel, G.N.: Pattern classifiers and trainable machines. Orig. en. Berlin; Heidelberg; New York: Springer-Verlag 1981. ca 400 p., 75 figs., DM 98.-, ISBN 3-540-90435-2
Contents: Introduction and overview. Linearly separable classes. Nonlinear classifiers. Loss functions and stochastic

approximation. Linear classifiers for nonseparable classes. Markov chain training for nonseparable classes. Continuous state models. Appendices.

7303 Watanabe, S.: Pattern recognition as a quest for minimum entropy. Orig. en. Pattern Recognition Vol 13, No 5, 1981 p.381-387
Shows that many known algorithms of clustering and pattern recognition can be characterized as efforts to minimize entropy, when suitably defined. (acc.to author)

54 ON TAXONOMIES IN THE BIO-AREA

7304 White, B.S.; Castelman, K.R.: Estimating cell populations. Orig. en. Pattern Recognition Vol 13, No 5, 1981. p.365-370

58 ON TAXONOMIES IN THE SCIENCE AND INFORMATION AREA

7505 Galambos, G.; Szentirmai, L.: Die Anwendung des Modells "Multivariate Nominal Scale Analysis" bei bibliothekssoziologischen Untersuchungen. (Application of multivariate nominal scale analysis in library-socio-logical investigations). Orig. de. Z.bl.Bibl.wes. Vol 95, No 6, 1981. p.255-261

6 ON SPECIAL SUBJECTS CS

61 ON CS for the AREA 1 FIELDS

7306 Gigch, J.P.van; Kramer, N.J.T.A.: A taxonomy of systems science. Orig. en. Int.J.Man-Machine Studies Vol 14, 1981. p.179-191
A taxonomy of Systems Science is proposed based upon criteria by which the validity of results is evaluated and by which the systems conceptualization is defined. Based on this classification, four main categories of General Systems Theory are postulated, their characteristics outlined and scholars of each branch named. The problems which Systems Science attempts to solve and the ideal of a unity of science are discussed. (Authors)

63 ON CS FOR THE ASTRO AND GEOSCIENCES

7307 Preobraženskaja, G.S. (Ed.); Machmudov, A.Ch.(Ed.); Černikov, K.A.(Ed.): Use of new methods for the elaboration of an information retrieval language in the field of petrol and gaz geology Leningrad: V.N.I.G.R.I. 1978, ru, 128 p.

7308 Gejvandov, E.A.: A fact structuring and a fact recording language representing aspect relationships - the subject field of material and substance properties. Orig. ru. Naučn.-techn.inform.Ser.2, No 9, 1980. p.9-16, 9 refs.
Discusses the structure of facts in the subject field of material and substance properties. Proposes an input language with grammar which permits to record textual factographic information while retaining most important semantic relationships. (acc.orig.abstr.)

7309 Švedkov, E.L.; Kovenskij, I.I.: A classificatory type IR language for the powder metallurgy problem area. Orig.ru. Porosk.Metallurgija, No 8, 1980. p.90-96, 14 refs.

7310 Laureilhe, M.-Th.: Book review of Voionmaa, N.: Thesaurus noms de lieux. Orig. fr. Bull.Bibl.France Vol 26, No 5, 1981. p.315-316

64 ON CS IN THE BIO AREA

7311 Andres, M.: The organization of updating the information search language for the "AGROSELEKT" central funds. (Orig.de) Informatik Vol 28, No 3, 1981, p.26-28
The improvements introduced up till now are described. Computer-generated lists of the application frequency of notations and similar media are used for further development. The steps of thesaurus corrections are explained. (acc.orig.abstr.)

7312 Donascimento Rodrigues, C.: Multilingual thesaurus for viticulture. Orig. es. Rev.Esp.Doc.Cient. Vol 3, No 4, 1980. p.327-332, 2 refs.
Description of the general characteristics of this thesaurus which is still in the project stage. It will be available in Portuguese, Spanish, French and Italian.

7313 Kirtland, M.: Macro- and microthesauri: changes occurring in MeSH-derived thesauri and a solution to some related search handicaps. Orig. en. J.Amer.Soc.Inform.Sci. Vol 32, No 4, 1981. p.249-252, 6 refs.
The article explores changes that can occur during the creation of a derivative thesaurus. A term translation dictionary is proposed to aid MeSH-trained and other searchers who would be using the Cancer Information Thesaurus. (Author)

7314 Henzler, R.G.: Modelle und maschinelle Methoden zur Erstellung eines Thesaurus für ein Literaturdokumentationssystem in der Krebsforschung. (Models and computer methods for thesaurus construction of a literature documentation system in cancer research) Orig. de. In: Jesdinsky, H.J. u.a.; Modelle in der Medizin. Theorie und Praxis. Berlin: Springer Verlag 1980. p.128-148

7315 Asis, M.: Extensive use of an information retrieval thesaurus in clinical and instructional work in psychology and psychiatry. Orig. es, Inform.FID/CLA, No.35, 1980, p.29-34
Description of a thesaurus in parapsychology, developed in Cuba 1977.

66 ON CS IN THE SOCIO AREA

7316 Lossow, W.v.(Comp.); Informationszentrum Sozialwissenschaften: German terminologies, classification systems and thesauri of recent years relevant for social sciences. Orig. de. Bonn 1981. 55 p.
In the form of copies of project descriptions this compilation lists relevant material in subject oriented order of 14 main social science fields.

7317 Cerny, B.A.; California University, Laurence Berkeley Laboratory: Development of a political service thesaurus. Orig. en. Berkeley, CA 1980. 59 p., NTIS Report.LBL-11034
The procedures used in developing a political science thesaurus for use by the US DOE Technical Information Center and the Executive Office of the President Information Center are described. Its classification scheme is given in an appendix together with a one page example of the thesaurus itself.

7318 Prunieres Pillias, A.-F.: Le thésaurus du Centre de documentation en urbanisme. (The thesaurus of the documentation center on urbanism) Orig. fr. Paris: C.N.A.M. 1980. 75 p., 2 refs., Mem.I.N.T.D.
Elaboration, structure, evolution and revision of the thesaurus URBAMET are presented.

67 ON CS IN THE ECONOMICS AND TECHNOLOGY AREA

See also 7252

7319 Lehman, L.; Heisingin Kauppakorkeakoulu: Thesauri of economics BILD/FINP and SCANP/SCIMP: A comparison between Finnish and English terminology. Orig. fi. Helsinki 1980. 40 p.

7320 Allen, J.; London City University, Centre for Information Science: Product information in patent specifications. Orig. en. London 1979. 123 p., figs., refs., MSc Thesis
Discussion of existing product classification schemes with particular emphasis on the US SIC (Standard Industrial Classification) as used by Predicasts.

7321 Kulhánek, J.: LIAZ information retrieval language. Orig. cs. Tech.Knihovna Vol 24, No 3, 1980. p.69-78, fig., refs.
Description of the IR language used by the Liberec Car Factory (LIAZ) lorry branch in Jablonec N/Nisou, which is based on 4 basic categories, namely means, product, material, operation.

68 ON CS IN THE SCIENCE AND INFORMATION AREA

7322 Rettig, J.: A classification scheme for local government documents collections. Orig. en. Govt.Publs.Rev.A: Res.Art. Vol 7, No 1, 1980. p.33-39, 3 refs.
The University of Dayton's Roesch Library needed a scheme for its local documents collection. Existing schemes were examined but rejected. The new scheme devised is primarily intended for document collections from governments and civic organisations of no more than several counties. (Author,abbr.)

7323 Lacaze, G.: Analyse préalable à la création d'une nomenclature des manuscrits en vue de l'automatisation de la filmothèque de l'Institut de Recherche et d'Histoire des Textes. (Preliminary analysis for the establishment of a nomenclature of manuscripts concerning the computerisation of the film library of the Institute for Research and History of Texts) Orig. fr. Paris: C.N.A.M. 1980. 124 p., 3 p.refs., Mem.I.N.T.D.

7324 Svincov, V.I.: On the classification of information processes. Orig. ru. Naučno-techn.inform.Ser.2, No 6, 1981. p.1-6, 16 refs.

7325 Roman, E.; Onofrei, N.: Opinions for a Romanian bibliographical vocabulary. Orig. en. Probl.Inform.Docum., Bukarest Vol 14, No 3, 1980. p.127-132, 13 refs.
Suggestions concerning the characteristic features of such a

vocabulary with proposals regarding the definitions of some terms and the appendices of the vocabulary.

69 ON CS IN THE CULTURE AND HUMANITIES AREA

7326 Beck, H.: Book review of G.Seidel: Klassifikation Bertold Brecht. Orig.de. Z.bl.Bibl.wes. 95(1981)No 5, p.221-222

7 CLASSIFICATION AND LANGUAGE

71 GENERAL PROBLEMS OF NATURAL LANGUAGES

See also 7164, 7217-7219, 7172-4

7327 Kuhlen, R.; Konstanz Universität. Soz.wiss.Fakultät, FG Pol.u.Verw.wiss.: Informationswissenschaft mit Schwerpunkt Informationslinguistik. (Information science with special emphasis on information linguistics) Orig. de. 1980. 103 p.

7328 Nalimov, V.V.; Colodny, R.G. (Ed.): In the labyrinths of language: a mathematician's journey. Orig. en. Philadelphia, Pa.: ISI Press 1981. 246 p., 221 refs., \$22.50, ISBN 0-89495-007-X
The chapters cover the following topics: 1. What language is. 2. Probabilistic semantics. 3. The language of science. 4. Mathematics as a language. 5. Soft languages (..of abstract painting, .. of ancient Indian philosophy). 6. A hard language of biological codes. 7. The theory of names. 8. Language and thinking: continuity vs. discontinuity. 9. Epilogue. App. 1: Collection of statements about the term "statistics". App.2: List of pictures used in the experiment. References. Index of names, Index of subjects.

7329 Malachovskij, L.V.: Frequency stratification principles for vocabulary. Orig.ru. Stat.reči i avtomatič.analiz.teksta. Leningrad 1980. p.99-105

7330 Navin'jani, A.S.(Ed.); Vyčisl.centr.CO AN SSSR: The syntactic and semantic components of linguistic software: A collection of papers. Orig. ru. Novosibirsk 1979. 177 p.

7331 Subich, S.A.: Statistical methods in linguistics. Orig.ru. In: Stat.reči i avtomatič.analiz.teksta. Leningrad 1980. p.52-63

72 SEMANTICS

7332 Meier, G.F.: Fragen zur semantischen Analyse und Synthese. (Questions concerning semantic analysis and synthesis) Orig. de. Z.Phonetik, Sprachwiss.Komm.forsch., No 4, 1980. p.478-485
Discusses and shows the way to translate the semantic content of a phrase into a structured form in order that its computerized handling becomes possible. Its practical aspect can be seen in automatic fact retrieval from texts. It can also be used in many other application fields, such as question-answering, examination of witness' testimonies, etc.

7333 Natanson, E.: Synonymie des termes. (Synonymy of terms) Orig. fr. Fachsprache Vol 3, No 2, 1981. p.50-61, 10 refs.
Starts with a possible definition of 'synonymy' and presents two ways of classifying synonyms. The first is based on the different origins of the phenomenon in question and distinguishes spontaneous synonymy, s. by conceptual contradictions, s. of historical doublettes and s. between standard language and jargon. The second one is based on the form of synonymous lexemes, namely synonymy of terms consisting of a single word only, s. between simple and compound terms, s. of simple terms and phrases (word-groups), s. between the full and the abbreviated form of words, compound terms and phrases. 'Pseudosynonymy' is described as a special phenomenon. (Author,abbr.)

7334 Bajkova, Z.M.: Identification of synonymous lexical series with the modal meaning of certainty/assertion through semantic and functional analyses (with special reference to modern English). Orig. ru. Sntagmatič.obuslovlennost' tekst.sif.semantiki. Riga 1980. p.18-36, 24 refs.

74 GRAMMAR PROBLEMS

7335 Pamorozskaja, N.I.: The semantic aspect of verbal derivatives. Orig. ru. In: Strukturno-semantič.issled.nem.teksti.ki. Kalinin 1980. p.80-85, 10 refs.

7336 Piotrovskikij, R.G.; et al: Formal recognition of text meaning. Orig. ru. In: Stat.reči i avtomatič.analiz.teksta. Leningrad 1980. p.5-51, 16 refs.

7337 Kunze, J.: Integration of semantic criteria into syntactic rules. Orig. ru. Naučno-techn.inform.Ser.2, No 6, 1981. p.30-34

Proposal of a description of syntax with integrated semantic components which ensures high quality of syntactic analysis. Five components are described for an exhausting description of word forms and sub-trees: word-building, subordinating, linear-order, paradigmatic and selective. (Author, abbr.)

7338 Seljan, E.: Syntax and indexing. Orig. ru. In: Probl. na spec.biblioteki. Avtomatiz. i informacion.osigurjavane. Sofija 1980. p.125-146, 13 refs.

Consideration of the use of syntax and semantics of a sentence in applying different methods of automatic indexing and in particular the so-called linguistic indexing. Analysis of difficulties of indexing. The syntax of a sentence is regarded as one of the indexing levels. Examination of the role of syntax of the input text in effecting automatic indexing. (Author, abbr.)

7339 Sprissler, M.: On representing sentence structure in English for special purposes (ESP). Orig. en. Fachsprache Vol 3, No 2, 1981. p.61-68, 2 refs.

Clarification of some linguistic notions and demonstration of sentence pattern formulae (Satzbaupläne), their construction and their components, using an English medical text. (Author, abbr.)

75 QUESTION-ANSWERING SYSTEMS

7340 Kokoreva, L.V.: Implementing natural language dialogue. Orig. ru. In: Materialy 2-go Vses. sovesc. dialogov.vychisl.kompleksy. Serpachov 1979. p.230-325, 3 refs.

The potentials of natural language communication today are discussed and a new approach to natural language dialogue is proposed which relies on the lambda-calculus formalism. Format, semantic, procedural and deductive system understanding natural language are reviewed.

76 LEXICON, DICTIONARY PROBLEMS

7341 Fox, M.S.; Bebel, D.J.; Parker, A.C.: The automated dictionary. Orig. en. Computer Vol 13, No 7, 1980. p.35-48

An automated dictionary is a computer-based device that holds all or part of a dictionary and allows access to and the display of entries. The article presents results of some preliminary studies conducted at the request of the National Institute of Education.

7342 Nix, R.: Experience with a space efficient way to store a dictionary. Orig. en. Comm.ACM Vol 24, No 5, 1981. p.297-298, 5 refs.

Discussion of aspects of practical space efficient algorithms for testing set membership - a simple abstraction of looking a word up in a dictionary, useful e.g. for detecting and correcting spelling errors.

7343 Vandamme, F.: Nominalism and the dictionary of the future. Orig. en. Communic.Cognition Vol 14, No 2-3, 1981. p.267-271, 6 refs.

Intention to stress the cognitive and epistemological important value and consequences of the work of the lexicographer. This must be kept in mind when evaluating the use of the computer for the purposes of the lexicographer.

77 GENERAL PROBLEMS OF TERMINOLOGY

See also 7146, 7169, 7387-7388

7344 Hoedt, J. (Ed.); Turner, R. (Ed.); Copenhagen School of Economics. The LSP Centre, UNESCO ALSEO LSP Network and Newsletter: New bearings in LSP. Orig. en. Copenhagen 1981. 181 p.

Contains 15 articles in the area of language for special purposes (LSP), curriculum development and other educational problems of the last five years which appeared in the ASLED LSP Newsletter in English, French and German. There are English summaries to the articles in French and German.

7345 Kobrin, R.Yu.: On the notions about terminology and terminologic system. Orig. ru. Naučno-techn.inform.Ser.2, No 8, 1981. p.7-10

7346 Kočanová, N.N.: The role of terminological normalisation and standardisation in the development of the branch systems of scientific-technical information. Orig.ru. In: Probl. integracii i vzaimodejstviya avtomatizir.inform.centrov, vchodjasčich v SACNTI. Č.2. Moskva 1980. p.132-134

For the integrated multi-theme automated information system ASSISTENT of VINITI questions of the ordering of terminology become especially important. Discussion of implications of the terminology work at VINITI.

7347 Leska, M.: Proposals for the expansion of terminological work. Orig. pl. Normalizacja Vol 48, No 5, 1980. p.42-47

Discussion in brief of the following issues: terminological work by groups of Polish institutions, term unification ta-

king into account both foreign and international experience, and special traits of term unification. Types of terminological work and conditions providing for term unification are given in a tabular form. (Author, mod.)

7348 McNaught, J.: Terminological data banks: a model for a British Linguistic Data Bank (LOB). Orig. en. ASLIB Proc. Vol 33, No 7/8, 1981. p.297-308

Description of a model linguistic data bank for a British market based on the results of a continuing feasibility study including institutional and organizational structure as well as data acquisition policy and financial aspects.

7349 Siforov, V.I.: Theoretical and methodological problems of terminology. Orig.ru. Vestn.AN SSSR, No 7, 1980. p.101-102 Report on a conference under this title which took place from Nov.27-30, 1979 at Moscow.

78 SPECIAL TERMINOLOGY PROBLEMS

See also 7178

7350 Rojter, T.: The language of mathematics. A linguistic analysis with special reference to Russian and German mathematical texts. Orig. ru. Rev.Roum.Ling. Vol 25, No 3, 1980. p.265-302, 27 refs.

Contrastive linguistic analysis of some peculiarities in the language of mathematics using texts from manuals on algebra, and differential and integral calculus in Russian and German.

7351 Kearney, M.-L.: Comment établir une nomenclature commerciale? La terminologie de l'industrie du pur-sang en France. (How does one establish a commercial nomenclature? French bloodstock terminology) Orig. fr. Banque des Mots, No 20, 1980. p.184-194

7352 Bonnichon, M.; Nicolas, M.-G.; Carra, G.; Assoc.Promotion Industrie-Agriculture: Traduction en espagnol et en portugais du vocabulaire des sciences et techniques alimentaires. (Spanish and Portuguese translation of the vocabulary of science and technology of food) Orig. fr. Paris: MIDIST 1980. 8 p., MIDIST-291 951

7353 Aléong, St.: Histoire du vocabulaire québécois du hockey sur glace. (History of Quebec French ice-hockey terminology) Orig. fr. Banque des Mots, No 20, 1980. p.195-210

7354 Marceil, J.: Les échecs. (Chess. A glossary) Orig. fr. Banque des Mots, No 20, 1980. p.179-186

7355 The Finnish Business Archive Association: Business archives terminology/Liikearkistosanasto. Orig. fi. Helsinki 1980. 68 p.

7356 Wersig, G.: Notizen zu einem kommunikationsorientierten Zeichenbegriff. Neue Richtlinien zur semiotischen Terminologie. (Remarks concerning a communication-oriented concept of sign) Orig. de. Z.Semiotik Vol 2, No 3, 1980. p.261-266, 1 fig. Presentation of the principles guiding the German standard DIN 2338 "Concept system for signs" including definitions of some basic concepts of semiotics and a typology of signs.

8 APPLIED CLASSING AND INDEXING

81 GENERAL PROBLEMS OF INDEXES AND INDEXING RULES

7357 Roper, V.de P.: Book review of L.M.Harrod (Ed.); Indexers on indexing: a selection of articles published in The Indexer. New York, London: Bowker 1978. Orig. en. J.Doc. Vol 37, No 1, 1981. p.51-52

7358 Bush, G.: On-screen index. Orig. en. Indexer Vol 12, No 3, 1981. p.142-143

Summary of an address of the head of the Prestel indexing group given to the Society of Indexers, Nov.20, 1980 on the problems faced in preparing the Prestel index for optimum use through inexperienced people.

7359 Subbarao, C.V.; Chopra, U.: Amplified journal's index of a bibliography. Orig. en. Her.Libr.Sci. 19(1980)No 4, p.320-322

Points out that the journals' index, given in a bibliography is noticed as a feature of up-to-dateness only. Observes that if entry numbers and locus are included, literature search of researchers would be helped, by giving a systematic approach to the use of library resources in periodicals. (Author, abbr.)

7360 Hartley, J.; Davies, L.; Burnhill, P.: Alphabetization in indexes: experimental studies. Orig. en. Indexer Vol 12, No 3, 1981. p.149-

Report on how students and children sequence words and retrieve items from indexes with different sequences.

7361 Volgar', L.G.: On subject complexes in subject catalogues of libraries of different types. Orig. ru. In: *Predmetn. poisk v tradicion. i netradicion. inform.-poiskov. sistemach.* Leningrad 1980. p.45-61, 26 refs.

82 DATA INDEXING

7362 Piottuch-Peleckij, V.N.; et al.: A chemical structure handling system. Orig. ru. Dokl., predst.na 4-ju Mezhdunar. konf. po primenenija EVM v chimii. Čl.1. Novosibirsk 1979. p.232-238

The system was developed at the Scientific Information Centre for Molecular Spectroscopy, Siberian Div., USSR Acad. of Sciences. It is designed for the registration, search and retrieval of structure-property correlations.

7363 Mooseniller, J.P.; Ryan, A.W.; Stobaugh, R.E.: The Chemical Abstracts Service Chemical Registry System. VIII Manual registration. Orig. en. *J.Chem. Inform. Comput. Sci.* Vol 20, No 2, 1980. p.83-88, 8 refs.

Description of the manual identification process and the combination of manual and machine processing necessary to record substances in the CAS Registry System.

7364 Stobaugh, R.E.: The Chemical Abstracts Service Chemical Registry System. VI. Substance-related statistics. Orig. en. *J.Chem. Inform. Comput. Sci.* 20(1980)No 2, p.76-82, 14 refs.

Report on the statistics of types of substances, ring systems and elemental composition determined from the Chemical Abstracts Service Registry Structure File. Comparisons are offered to show the various shifts in file characteristics.

(Author, abbr.)

7365 Rush, J.L.: Developing a system of indexing surnames in the Home office. Orig. en. *Indexer* Vol 12, 1980. p.81-82

83 INDEXING OF AND BY TITLES, PHRASES

7366 Balog, C.: The information content of titles of papers in an agricultural journal. Orig. en. *J.Res. Commun. Stud.* Vol 2, No 4, 1981. p.263-270, 8 refs.

85 BOOK INDEXING

7367 Book indexing. Orig. en. In: Hunter, E.J.; Bakewell, K.G.B.; *Cataloguing.* München, London: Saur Verlag; C.Bingley 1979. p.163-165

7368 Wornell, I.: SAP - a new way to produce subject descriptions of books. Orig. en. *J.Inform.Sci.* Vol 3, No 1, 1981 p.39-43, 6 refs.

Description of the project SAP - Subject Access Project - which provides for enriched subject analysis of books on the bases of tables of contents and other easily accessible information.

87 INDEXING OF SECONDARY LITERATURE

See also 7255, 7359

7369 Garfield, E.: Citation indexing: Its theory and application in science, technology and humanities. Orig. en. New York: J.Wiley 1979. 298 p., \$15.95

Book review by E.T.Morman in *ISIS* 72(1981)No.263, p.491-2

7370 Miyamoto, S.: A clustering method of scientific literature based on averaged citation multiplicity. Orig. ja. *Libr. and Inform.Sci.*, No 17, 1979. p.93-102

Report on experiments at the Scientific Information Processing Centre, University of Tsukuba involving 3505 articles in instrumentation/control engineering extracted from Science Citation Index. The articles were cited 26 096 times. Results of co-citation indexing using clustering analysis show the trend of theoretical research in this field.

88 INDEXING OF PRIMARY LITERATURE

7371 Honoré, S.: Index translationum: past achievements, future considerations. Orig. en. *Unesco J.Inf.Sci., Libr. and Arch.Admin.* Vol 2, No 2, 1980. p.105-109, 2 refs.

Description of the history of Index translationum, considering questions dealing with its preparation and distribution. Report on the results of a questionnaire survey of the users of this Index regarding its utility.

7372 Rickman, E.: Abstracting and indexing services in planning. Orig. en. *Aslib Proc.* Vol 33, No 5, 1981. p.210-216, 5 refs.,

7373 Bergmann, H.: Das systematische Register für das Gesamtverzeichnis österreichischer Dissertationen. (The systematic Index to the union catalogue of Austrian theses) Orig. de. *Biblos* Vol 30, No 2, 1981. p.90-96

Description of the principles and problems of elaborating a new system for the annual bibliography of Austrian theses; of the indexing procedures and of two additional indexes.

7374 Romeyk, H.: Neuere Erfahrungen bei der Indexierarbeit im Archiv. (New experiences in indexing archival materials) Orig. de. *Archivar* Vol 34, No 3, 1981. p.363-371

Continuation of a topic published in the same journal vol.31 (1978) p.195-204, now, however, almost exclusively devoted to the computerized indexing under investigation in the state archive of North-Rhine Westfalia since 1978.

7375 Rudel'son, K.I.: Document classification and scientific reference tools in state archives. Orig.ru. *Tr.VNIIDAD*, No 12 1980. p.70-81

In Soviet archival theory, classification is seen to be realized in four stages: (1) the classification of documents in the State Archival Collection of the USSR as a whole (the state archival network), (2) classification within archives (organisation of materials among archival collections), (3) within an archival collection and (4) as the classification of information contained in documents. Detailed description of the classification steps and the reference apparatus system which is a set of interrelated directories depending on common methods of classification, description and control of documents.

7376 Goto, M.: Styles of descriptive notes in periodical indexes compared. Orig. ja. *Semmon tosyokan*, No 81, 1980. p.30-35

Comparison of various periodical index journals with reference to their form, consistency in contents, legibility, facility for use, etc. An urgent need to review the form and manner of entry was recognized. (Orig.abstr.abbr.)

7377 Hood, H.A.: Current law index and Index to legal periodicals: a comparison. Orig. en. *Int.J.Law.Lib.* Vol 8, 1980. p.56-57

7378 Vierra, B.; Trice, T.: Local newspaper indexing: a public library reports its experience. Orig. en. *Ser.lib.* Vol 5, No 1, 1981. p.87-92, 1 ref.,

Presentation of the activities of the Napa City-County Library in this field on the basis of two sets of newspapers, one from 1857-1900 and another one from a contemporary newspaper.

7379 Oetting, E.C.: Indexing student newspapers. Orig. en. *Am.Archivist* Vol 43, 1980. p.211-212

7380 Zeskey, R.H.: Newspapers on microfilm: history as it was happening (and indexes to help you find your way). Orig. en. *Serials Libn.* Vol 4, 1980. p.393-399

89 CLASSING AND INDEXING OF PICTURES

7381 Liebman, R.: The Media Index: Computer-based access to non-print materials. Orig. en. *RQ* Vol 20, No 3, 1981. p.291-301

7382 Clawson, C.; Rankowski, C.A.: Slide classification and cataloging. Further considerations. Orig. en. *Spec. Libr.* Vol 72, No 1, 1981. p.39-43, 12 refs.

This article is a follow-up to the August 1978 article on the classification and cataloging of slides using color photocopying. It presents unsolicited reactions to the original article by various librarians, as well as others, who became aware of the impact of slide classification systems from the description of the slide system developed for use in the C-E Refractories, Research and Development Library. (Orig.abstr.abbr.)

7383 Schroeder, J.R.: Perspectives on map cataloging and classification. Orig. en. *Libr.Trends* Vol 29, No 3, 1981. p.419-438

9 CLASSIFICATION "MILIEU" (Org. and Econ.)

92 PERSONS AND INSTITUTIONS IN CLASSIFICATION

7384 FID/CR Terms of Reference. Orig.en. *Int.Classif.* Vol 8, No 2, 1981. p.96

7385 Dahlberg, I.: 35 years of FID/CR. Orig. en. *Intern.Forum on Inform.Docum.* Vol 6, No 3, 1981. p.20-26, 59 refs.

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