

0 Form Divisions

01 Bibliographies

- 0762 012.3
Wheeler, J. (Comp.): **Indexing: a current-awareness bibliography, Pt.2.** (Orig. en). In: *Indexer* Vol.18, No.4 1993, p.247-258, 259 refs.
Contains items no.303-562 arranged in the alphabetical order of 23 main subject headings, beginning with "Automatic Indexing" and ending with "Thesauri". Under each such heading the sequence follows the names of authors. The references have short annotations.

02 Literature Reviews

- 0763 025
Stone, A.T.: **That elusive concept of aboutness: the year's work in subject analysis.** (Orig. en). In: *Libr.Resources & Techn.Serv.* Vol.37, No.3 1993, p.277-298, 5 p.
The survey has the following headings: Theoretical foundations, cataloguing practices, subject access in online environments, and specialized materials and topics. It is noted that the Ranganathan anniversary year has resulted in much literature devoted to classification theory and faceted classification systems.

- 0764 026
Zerbst, H.-J.: **Kaptein, O.: Gegenwärtiger Stand und Entwicklungstendenzen der Sacherschließung.** Auswertung einer Umfrage an deutschen wissenschaftlichen Bibliotheken. Present state and development trends of subject indexing. Evaluation of a questionnaire sent to German scientific and public libraries. (Orig. de). In: *Bibliotheksdienst* Vol.27, No.10 1993, p.1526-39, 1 ref.

04 Classification Systems & Thesauri

- 0765 042.1-en-39
UDC Auxiliary Table 1(e): Pt.3: Common Auxiliaries of place (5/9), Asia, Africa, the Americas, Pacific and circumpolar territories. (Orig. en). Milton Keynes, GB: Brit.Stand.Inst 1993 L 64.80 BS1000: Auxiliaries

- 0767 048-26
New and revised Chemical Abstracts indexing terms - 1992. (Orig. en). Columbus, OH: Amer.Chem.Serv. 1992, 42p.
The list is available free of charge from Chemical Abstracts Service, 2540 Olentangy River Road, PO Box 3012, Columbus, OH, USA.

- 0768 048-573
CEDEFOP Library and Documentation Service: Multilingual thesaurus of vocational training. (Orig. 7 language). Luxembourg: CEC. Off.f.Publ 1992, XIX, 313p.
The thesaurus which was prepared under the supervision of Martina Ni Cheallaigh in collaboration with members of CEDEFOP's documentary network with technical assistance of TermNet, Vienna, comprises altogether 7 volumes, one for each language used (es, de, en, fr, gr, it, pt). The thesaurus has 1514 descriptors and 531 non-descriptors. Each volume has an alphabetical list of descriptors and non-descriptors with indication of the subject group to which a descriptor belongs. This is followed by an main part arranged in 17 subject groups, again in alphabetical order of terms in one language with their corresponding terms in the other languages. It contains also a permuted list of all descriptors.

- 0769 048-71/2
Informationszentrum des HWWA-Inst.f.Wirtschafts.: Thesaurus Wirtschaft. Thesaurus on Economics. 2 Vols. (Orig. de). Hamburg, DE: Verl.Weltarchiv 1992, 1681p.

The second edition of this thesaurus was published in two parts: Vol.1: Systematic Pt., Vol.2: Alphabetical Pt.

- 0770 048-91/2, 213
MLA Bibliography Thesaurus. (Orig. en). Arlington, VA: SilverPlatter 1992
The thesaurus of the Modern Language Association is now offered free of charge on CD-ROM to the subscribers of the bibliography. A permuted list of terms is available for selection of terms as well as searching with broader, narrower or related terms. The address of SilverPlatter Information Inc.: 1005 N.Glebe Road, Suite 605, Arlington, VA 22201.

- 0771 048-93
Friedrich, R. (Comp): **Kommision für Musikbibliotheken, DBI: Systematiken für Öffentliche Musikbibliotheken.** Classification Systems for Public Music Libraries. (Orig. de). Berlin, DE: Dt.Bibl.Inst. 1991, 251p.
The revision of the classification systems for music libraries was accomplished by a Working Group of a DBI Committee for Music Libraries in connection with the German AIBM-Group.

- 0773 048-94
Peterson, T.: **Art & Architecture Thesaurus. Supplement 1.** (Orig. en). New York, NY: Oxford Univ.P. 1992, 221p.
The first supplement includes new terms, deletions, and changes. List of sources used to support the changes.

- 0772 048-94.213
Art & Architecture Thesaurus: Authority Reference Tool. (Diskette edition). (Orig. en). New York, NY: Oxford Univ.P. 1992, 2 disks
The 3 vols. of the AAT published 1990 and its supplement are now available on two diskettes designed to function with such software as dBASEIII or IV, Paradox, and WordPerfect. It can be used as an independent tool or as part of an integrated system. An itheasaurus, a user manual, and a tutorial are included on the diskettes. Order from: Oxford University Press, Electronic Publishing, 200 Madison Ave., 9th floor, New York, NY 10016.

- 0774 048-961
Leech, R. (Comp.): et al.: **Thesaurus of Archaeological Site Types. 2nd ed..** (Orig. en). London, GB: Royal Comm. 1992, 213 p.
The Royal Commission on the Historical Monuments of England and English Heritage is the publisher of this information retrieval thesaurus, in alphabetical order. It lists over 3000 terms.

- 0766 048.1
ASB-Klassifikation. (Orig. de). Wiesbaden, DE: C. & E.Becker 1992, (Diskette)
The General Classification System for Public Libraries in Germany has been issued now on a 3,5 inch and 5,25 inch disk in the ASCII format.

05 Periodicals and Serials

- 0776 058-91
Linguistics and Language Behavior Abstracts (LLBA). (CD-ROM issue). (Orig. en). Arlington, VA: SilverPlatter 1992
This abstracts service is based on the evaluation of 2000 serials worldwide and covers not only articles but also books, occasional papers and monographs, technical reports and dissertations and citations to book reviews. The database was started in 1973. It contained 120,000 records in 1992. A detailed classification scheme is used of 77 subject categories in 29 areas. The CD-ROM service is available from SilverPlatter Information Inc., 1005 N.Glebe Road, Suite 605, Arlington, VA, 22201, USA and 10 Barley Mow Passage, Chiswick, London W4 4PH, England.

0775 **RSWK Mitteilungen.** Information Bulletin on the RSWK (German Rules for Subject Cataloging). (Orig. de). Berlin, DE: Dt.Bibl.Inst. 1988-, 10 p.

The Commission of the German Library Institute for Subject Analysis and Catalogue Management publishes in intervals its RSWK Mitteilungen as an annex to its journal Bibliotheksdienst. So far 6 numbers have appeared since 1988. No. 6 is devoted to the treatment of school-books and books for professional education schools.

06 Conference Reports, Proceedings

0777 **Johnson, R.D.: Book review of Lancaster, F.W., Smith, L.C.(Eds.): Artificial intelligence and expert systems: Will they change the library.** Papers presented at the 1990 Clinic on Library Applications of Data Processing, March 25-27, 1992. Urbana-Champaign, IL: GSLIS, Univ. of Illinois 1991. (Orig. en). In: J.Doc. Vol.48, No.4 1992, p.446-447, 3 refs.

0778 **Gorman, M.: Book review of Weinberg, B.H.(Ed.): Cataloguing Heresy: Challenging the Standard Bibliography Product.** Proc.Congress, Feb.18, 1991, St.John's Univ., Jamaica, NY. Medford, NJ: Learned Inform.1992. XII,217p.. (Orig. en). In: Int.Cat.& Bibliogr.Control Vol.22, No.2 1993, p.35

0779 **Benediktsson, D.: Book review of NISKO 91. International Conference on Knowledge Organization, Terminology and Information Access Management.** Bratislava, May 13-16, 1991. Bratislava: NISKO 1991 (available via INDEKS Verlag. 192p.. (Orig. en). In: Knowl.Org. Vol.20, No.3 1993, p.166-168

0780 **Weinberg, B.H.: Book review of Williamson, N., Hudon, M.(Eds.): Classification Research for Knowledge Representation and Organization: Proc.5th Int.Study Conf.on CR.** Toronto, CA, June 24-28, 1991. Amsterdam: Elsevier 1992. 427p.. (Orig. en). In: J.Academic Librnship Vol.19, No.4 1993, p.251-2

0781 **Clavel, G.: Walther, F., Walther, J.: Indexation automatique de fonds bibliothéconiques.** Automatic indexing of library science materials. (Orig. fr). In: ARBIDO-R Vol.8, No.1 1993, p.13-14 Report on a seminar on Documentation and Linguistics which took place in Paris, Nov.1991.

0782 **(Papers of the World Congress on Expert Systems).** (Orig. en). In: Expert Syst.with Applications Vol.5, No.3/4 1992, p.185-478 Selected and expanded papers from the first World Congress on Expert Systems, held in Orlando, Florida, Dec.16-19, 1991. Out of 500 papers submitted for the congress, 92 were selected for presentation, out of which about 25 were selected for this issue. Jay Liebowitz, the chairman, introduces with a Conference Report.

0783 **Liebowitz, J.: The Feigenbaum Medal.**

0784 **Feigenbaum, E.A.: A personal view of expert systems: Looking back and looking ahead.**

0785 **Forsythe, D.E.: Buchanan, B.G.: Nontechnical problems in knowledge engineering: Implications for project management.**

0786 **Long, J.M.: Slagle, J.R. et al.: Implementing expert systems into ongoing data analyses.**

0787 **Arai, K.: Yamashita, Y., Mizoguchi, R.: A shell for signal interpretation expert systems.**

0788 **Debenham, J.: Expert systems designed for maintenance.**

0789 **Fordyce, K.: Dalton, D. et al.: Daily output planning: Integrating Operations Research, Artificial Intelligence, and Real-Time Decision Support with APL2.**

0790 **Krallmann, H.: Müller-Wünsch, M., Woitering, A.: CASA: A knowledge-based tool for management consultants.**

0791 **Bench-Capon, T.: Coenen, F.: Maintenance tools for knowledge-based systems: The MAKE Project.**

0792 **Rada, R.: Weigang, W., Birchall, A.: An expert text system for collaborative authoring.**

0793 **Pham, D.T.: Tacgin, E.: An expert system for selection of robot grippers.**

0794 **Morgado, E.M.: Martins, J.P.: Scheduling and managing crew in the Portuguese railways.**

0795 **Cantu-Ortiz, F.: Garcia-Espinoza, M.A.: An expert system for diagnosing problems in boiler operations.**

0796 **Prerau, D.S.: Papp, W.L.: TARGET expert systems for analysis and trouble resolutions of remote telecommunications equipment.**

0797 **Mikkelsen, J.O.: Bremdal, B.A., Hirdes, D.: A computerized environment for the automation of form-based procedures.**

0798 **Wensley, A.: Expert systems and audit planning: Evolving research issues.**

0799 **Miyoshi, T. et al.: Management of uncertainty in LIFE FEShell Fuzzy Frame System.**

0800 **Snaprud, M.: Kaindl, H.: Knowledge acquisition using hypertext.**

0801 **Back, B.: Assisting accountants in developing financial statements.**

0802 **Buta, P.: Springer, St.: Communicating the knowledge in knowledge-based systems.**

0803 **Grogono, P.: Preece, A. et al.: A survey of evaluation techniques used for expert systems in telecommunications.**

0804 **Vrtacnik, M. et al.: Design of an expert system for water pollution determination/prevention.**

0805 **Colomb, R.M.: Computational stability of expert systems.**

0806 **Preece, A.D.: Shinghal, R., Batarekh, A.: Verifying expert systems: A logical framework and a practical tool.**

0807 **Chin, M.W.: Disaster mitigation in the Caribbean using expert systems.**

0808 **McLean, D.R. et al.: Emphasizing conflict resolution versus conflict avoidance during schedule generation.**

0809 **Turksen, I.B.: Tian, Y., Berg, M.: A fuzzy expert system for a service centre of spare parts.**

0810 **Jovanovic, A.: Maile, K.: ESR - a large knowledge-based system project of European power generation industry.**

0811 **Gödert, W.: Book review of Hermes, H.-J., Havekost, H. (Eds.): Die Systematik im OPAC: über das Instrumentarium zum Ordnen und Wiederfinden.** Oldenburg: Library and Information System of the Oldenburg University 1993. 162p.. The use of classification systems in OPACs: On the tools available for ordering

ring and retrieval. (Orig. en). In: Knowl.Org. Vol.20 , No.3 1993, p.168-169

Reports on the papers presented at Working Group Sessions on Library Science during the 16th Annual Convention of the Gesellschaft für Klassifikation, Dortmund April 1-3, 1992.

0812 06.92-06-21/24
Lutckens, E.: **SIGIR 92. New trends in information retrieval.** (Orig. en). In: Cahiers de la Documentation , No.1 1993, p.3-12
Extensive report on the more practical papers of the 15th ACM/SIGIR Conference, held at Copenhagen, June 21-24, 1992.

0813 06.92-07, 31
Lennie, F.S.: **Indexing as entertainment.** (Orig. en). In: Keywords Vol.1 , No.2 1992, p.6-9
Report on the proceedings of an indexing conference in England on international aspects of indexing.

0814 06.92-10-8/9
Karg, H.; Kunz, M.; Wolf-Dahm, B.: **SWD-Kolloquium am 8./9.Oktober 1992.** Colloquy on the Standard Subject Heading File, Oct.8-9, 1992. (Orig. de). In: Dialog Bibl. Vol.5 , No.1 1993, p.22-28

0815 06.92-11-9/10, 88-53
Johannsmeyer, B.; Ittner, A.: **Diskurs MeSH/RSWK im Universitätsklinikum Berlin-Steglitz.** Conference on MeSH and RSWK in the Berlin-Steglitz hospital. (Orig. de). In: Bibliotheksdienst Vol.27 , No.1 1993, p.60-61
Report on a course for further education in subject cataloguing of medical librarians with 23 participants who learned about ways of subject cataloguing in medicine.

0816 06.93-04-22/23, 356
Papers from the workshop on hypermedia and hypertext standards held in Amsterdam, Netherlands, 22-23 April 1993. (Orig. en). In: Inform.Serv.& Use Vol.13 , No.2 1993, p.81-188
The issue contains 13 papers with a guest-editor's preface by J.van Halm.

0817 06.93-04-22/23, 356
Stephenson, G.: **Introduction: The CEC open information interchange initiative.**

0818 06.93-04-22/23, 356
Welsch, L.A.: **Multimedia and hypermedia: model and framework.**

0819 06.93-04-22/23, 356
Bryan, M.: **Standards for text and hypermedia processing.**

0820 06.93-04-22/23, 356
Popham, M.G.: **Use of SGML and HyTime in UK universities.**

0821 06.93-04-22/23, 356
Carr, L.; Davis, H.; Hall, W.: **Experimenting with HyTime architectural forms for hypertext interchange.**

0822 06.93-04-22/23, 356
Scheller, A.: **The Open Document Architecture (ODA) and its HyperODA extensions.**

0823 06.93-04-22/23, 356
Soares, L.F.G.; Casanova, M.A.; Colcher, S.: **An architecture for hypermedia systems using MHEG standard objects interchange.**

0824 06.93-04-22/23, 356
Burnard, L.: **Rolling your own with the TEI.**

0825 06.93-04-22/23, 356
Fromont, J.: **State-of-the-art regarding the various standards for contents related to text, still images, sound and video.**

0826 06.93-04-22/23, 356
Fromont, J.; Creff, H.; Marie, X.: **The AVI initiative: Functional requirements analysis and proposed framework for standardization.**

0827 06.93-04-22/23, 356
Pring, I.: **Video standards and the end-user.**

0827 06.93-04-22/23, 356
Grieger, I.: **Future direction of SC24 standardization.**

0829 06.93-04-22/23, 356
Broekman, H.J.D.: **Effective communication with interactive**

media.

0830 06.93-05-20/22
Hall, G.: **Indexing, providing access to information, looking back, looking ahead.** (Orig. en). In: Indexer Vol.18 , No.4 1993, p.259-262

Report on the 25th Annual Meeting of the American Society of Indexers, Alexandria, VA, 20-22 May 1993.

0831 06.93-06-3/5
Universal Knowledge Tools and their Applications. (Orig. en). In: Knowl.Org. Vol.20 , No.3 1993, p.160-161

Short report with listing of the papers of the Conference in Toronto, Ont., June 3-5, 1993, organized by Prof.H.Burckhardt for the Ontario Division of the International Society for System Science

0832 06.93-10-25
Thesaurias Terminological Lexicons. A concept, a definition, and software requirements. (Orig. en). In: Knowl.Org. Vol.20 , No.3 1993, p.163-164

Program of a workshop organized by W.Schmitz-Esser, chair of DGD/KTF (the Committee for Classification and Thesaurus Research of the German Documentation Society) together with ISKO on Oct.25, 1993 in Weilburg.

0833 06.93-10-26/29
3rd Conference of the German ISKO Chapter. (Orig. en). In: Knowl.Org. Vol.20 , No.3 1993, p.163
Forecast of the program for this conference at Weilburg, Oct.26-29, 1993.

07 Textbooks (whole field)

0834 07.3
Keen, M.: **Book review of Lancaster, W.: Indexing and abstracting in theory and practice.** London: Library Assoc. 1991. XVI,328p.. Champaign, IL, GSLIS, Univ.of Illinois 1991. (Orig. en). In: J.Doc. Vol.48 , No.4 1992, p.435-436

08 Other monographs

0835 08
Langridge, D.W.: **Classification: Its kinds, systems, elements, and applications.** (Orig. en). London, GB: Bowker-Saur 1992, X,84p. ISBN: 0-86291-622-4

0836 08.752
Maltby, A.: **(Book review of title under 0835).** (Orig. en). In: J.Doc. Vol.49 , No.1 1993

0837 08.752
Oberhauser, O.: **Book review of Aluri, R., Kemp, A., Boll, J.J.: Subject analysis in online catalogs.** Englewood, CO: Libraries Unlimited 1991. XII,303p.. (Orig. en). In: Knowl.Org. Vol.20 , No.3 1993, p.165-166

09 Standards, guidelines

0838 09.812
Junginger, F.; Schubert, H.-J.: **Kommission f.Sacherschließung, DBI: Regeln für den Schlagwortkatalog: (RSWK), 2nd enlarged edition.** (Orig. de). Berlin, DE: Dt.Bibl.Inst. 1991, 321p.

0839 09.812
Praxisregeln zu den Regeln für den Schlagwortkatalog und der Schlagwortnormdatei. Erste Ergänzungslieferung. Practical rules to the Rules for the Subject Catalogue and the Standard Subject Heading File. (Orig. de). Frankfurt/Main: Dt.Bibliothek 1993, 153 p.
Contains new rules, supplements to rules already published, and an enlarged index.

1 Theoretical Foundations and General Problems

11 Order and Knowledge Organization (KO)

0840 111
Garcia Marco, F.J.: Esteban Navarro, M.A.: **On some contributions of the cognitive sciences and epistemology to a theory of classification.** (Orig. en). In: Knowl.Org. Vol.20 , No.3 1993, p.126-132, 22 refs.

0841 114
Arnopoulos, P.: **A SUM of science: the taxonomy and methodology of sociophysics.** (Orig. en). In: Knowl.Org. Vol.20 , No.3 1993, p.139-149, 80 refs.
Attempt to order the main parameters of scientific theory into a coherent taxonomy. To that end, a System Unification Model (SUM) is constructed which serves as a formal frame classifying the salient structures and functions of empirical existence. The methodology used is based on a Triadic Interface Paradigm which combines dialectic and syllogic algorithms to arrive at synthetic conclusions of general application. The model has been used to demonstrate a new Theory of Sociophysics which integrates the basic principles of social and natural sciences into an all-inclusive conceptual framework.(Author, abbr.)

12 Conceptology in KO

0842 121, 715
Birnbaum, L.: **Rigor mortis: a response to Nilsson s Logic and Artificial Intelligence.** (Orig. en). In: Artificial Intelligence Vol.47 , No.1-3 1991, p.57-77
The logicians dream of a completely use-independent characterization of knowledge has drawn their attention away from fundamental AI problems, leading instead to a concentration on purely formalistic issues and curtailed the prospects for intellectual interaction with other AI researchers.

0843 122, 361
Velardi, P.: Pazienza, T., Fasolo, M.: **How to encode semantic knowledge: a method for meaning representation and computer-aided acquisition.** (Orig. en). In: Computational Linguistics Vol.17 , No.2 1991, p.153-170, 20 refs.
Proposal of an algorithm to learn syncategorematic concepts from text exemplars. What is learned about a concept is not its defining features, such as kinship, but rather its patterns of use.

0844 124
Doyle, J.: Patil, R.S.: **Two theses of knowledge representation: language restrictions, taxonomic classification, and the utility of representation services.** (Orig. en). In: Artificial Intelligence Vol.48 , No.3 1991, p.261-297

14 Systems Theory and KO

0845 141
Rodriguez-Delgado, R.: Banathy, B.H. (Eds.): **International Systems Science Handbook.** An introduction to systems for everybody. (Orig. en). Madrid: Systemic Publ. 1993, 512p.
Contains 37 articles arranged under the following headings: Generalities, Systems Science, Education, Methodology, Some Applications. Introduction by the Editors. No Index. The articles:
0846 141
Rodriguez-Delgado, R.: **Systems theory. Basic concepts.**
0847 141
Gigch, S.P.van: **Paradigms.**
0848 141
Gao, S.J.: **Self-organization, systems evolution and ancient Chinese philosophy.**
0849 141
Broekstra, G.: **The systems paradigm in organization and management.** From open systems to the chaos hypothesis.

0850 141
Vallée, R.: **Systems theory, a historical presentation.**
0851 141
Laszlo, E.: **Main currents in systems thinking.**
0852 141
Francois, Ch.: **Inter, multi, or transdisciplinarity?.**
0853 141
Jackson, M.C.: **Critical systems thinking.**
0854 141
Flood, R.L.: **Liberating system theory.**
0855 141
Snow, R.: **The Integration of systems and interpretive thought.**
0856 141
Currás, E.: **Vertical integration of science: A systemic approach.**
0857 141
Andreewsky, E.: **Systems science, psychology and cognition.**
0858 141
Hernandez, M.J.: **Ecosystems. Main concepts.**
0859 141
Bunge, M.: **The concept of a social system.**
0860 141
Ulloa, R.R.: **Cultural change, strategic management and organizational change.**
0861 141
Banathy, B.H.: **Designing social systems: Creating our future in a changing world.**
0862 141
Csanyi, V.: **Culture and society as a replicative system.**
0863 141
Tsivacou, I.: **Structure and agency in systems rationality.**
0864 141
Banathy, B.H.: **Education in systems.**
0865 141
Delgado, J.M.R.: **Biological unity of brain and mind: A concept for systems education.**
0866 141
Torre, M. de la: **Towards the integration of cognitive sciences.**
0867 141
Laszlo, A.: **A cognitive map of cultural change.**
0868 141
Manzelli, P.: **Conceptual tools.**
0869 141
Minati, G.: **Designing open systems: Semantics and systems learning.**
0870 141
Rodriguez-Delgado, R.: **Systems dialectics for integrated development.**
0871 141
Sarget, M.N.: **Systems analysis and its use in political sociology.**
0872 141
Martinez, V.S.: **General rules for systems dynamics models.**
0873 141
Teune, H.: **Systems dynamics and systems transitions.**
0874 141
Gasparski, W.: **Methodology of design.**
0875 141
Parra-Luna, F.: **Soclocybernetics: third cybernetics.**
0876 141
Ferrer, L.: **A model for management.**
0877 141
Caselles, A.: **Modelling ecosystems.**
0878 141
Fillion, L.J.: **Soft systems methodology for an entrepreneurial metamodel.**
0879 141
Marinova, D.: **System characteristics of innovation.**
0880 141
Vardomatskii, A.: **Morality as a regulatory system.**
0881 141
Acosta, J.M.: **Time management.**

0882 147
Gelenbe, E.: **Neural networks: Advances and applications.** (Orig. en). Amsterdam, NL: Elsevier Sci.P. 1991, 274p. ISBN: 0-444-88533-1

0883 1478-396 US
Gaber, M.T.: Benjamin, C.O.: **Classifying US manufacturing plant locations using a nartificial neural network.** (Orig. en). In: Computers & Ind.Engg.(GB) Vol.23, No.1-4 1992, p.101-104, 12 refs.

Examination of the application of an artificial neural network (ANN) for classifying the contiguous states in the USA according to their manufacturing climate. The application uses a self-organizing paradigm, the ART2.

15 Psychology and KO

0884 153
Albus, J.S.: **Outline for a theory of intelligence.** (Orig. en). In: IEEE Transact.on Syst.Man & Vol.21, No.3 1991, p.473-509

0885 155/6
Frohmann, B.: **The power of images: A discourse analysis of the cognitlveviewpoint.** (Orig. en). In: J.Doc. Vol.48, No.4 1992, p.365-386, 41 refs.

0887 157
Cherkassky, V.: Vassilas, N., Wechsler, H.: **Semantic categorization using a hierachical associative memory.** (Orig. en). In: Int.J.of Neural Networks Vol.2, No.2-4 1991, p.101-114, 15 refs.

0888 157
Schuwer, R.V.: Kusters, R.J.: **Application areas and added value of knowledge base systems.** (Orig. en). In: Inform.& Management Vol.24 1993, p.83-92, 7 refs.

0886 157, 715, 757
Special Issue: Case-based reasoning and its applications. (Orig. en). In: Expert Systems with Applicat. Vol.6, No.1 1993, p.1-104

The idea of Case-Based Reasoning (CBR) is to store experience as cases in a case base. When a new problem is encountered, the system uses memory of relevant past cases to interpret or solve the problem. As a result, the more cases the system stores the better it performs. This issue contains nine articles on CBR with a guest-editors note from Ting-Peng Liang and Efraim Turban.

17 Problems in KO

0889 173
Walker, A.: Pattacaik, M.: **Knowledge-based approach to simulation model validation.** (Orig. en). In: Computers & Industrial Engg. Vol.23, No.1-4 1992, p.245-248, 12 refs.

Validation is an important part of simulation modeling. The shortcoming of traditional validation is lack of sufficient knowledge and lack of organization of the existing knowledge. This research explores the possibility of using knowledge from fields other than simulation, such as functinal design and database design, for conceptual validation. Two simulation models are tested using the knowledge. An organization of all the knowledge into a knowledge base is suggested.

0890 174
Kilgour, F.G.: **Lackof Indexes in works on information science.** (Orig. en). In: J.Amer.Soc.Inform.Sci. Vol.44, No.6 1993, p.364, 1 ref.

0891 178, 726
Takoushian, R.: **Domain classification: a scalar approach to data names.** (Orig. en). In: Data Management Vol.4, No.2 1993, p.15-24

To achieve accurate classification and consistent naming of data elements, it is imperative to properly identify the data. This article

suggests a method of simplifying this rather daunting task.
(Author, abbr.)

2 Classification Systems and Thesauri (CS&T). Structure and Construction

23 Construction of CS & T

0892 237, 276
Amat, C.B.: Baquedano Alcocer, A.: **Generating structural input files for BRS thesaurus creation and maintenance.** (Orig. es). In: Rev.esp.doc.cient. Vol.16, No.2 1993, p.119-136, 9 refs.
The thesaurus elaborated contains 7500 terms pertaining to world geography. It is used to control input and retrieval from bibliographic and audiovisual databases of the Radiotelevisión Valenciana. The load file structure, as well as the delimitation of terminological relationships have been performed using a microcomputer database management system.

24 Relationships

0893 242, 725
Cooke, N.J.: **Eliciting semantic relations for empirically derived networks.** (Orig. en). In: Int.J.Man-Machine Studies Vol.37, No.6 1992, p.721-750, 20 refs.
This research addresses the problem of eliciting semantic relations in order to enrich the Pathfinder network representation and increase its potential as a knowledge-elicitation technique. Here the SCAN (Sorting, Clustering, and Naming) methodology is described and illustrated using links in a network of 20 common concepts.

25 Numerical Taxonomy

0894 251
Brew, C.: **Systemic classification and its efficiency.** (Orig. en). In: Computational Linguistics Vol.17, No.4 1991, p.375-408, 18 refs.
Examination of the problem of classifying linguistic objects on the basis of information encoded in the system network formalism developed by Halliday.

0895 253
Tubbs, J.D.: Alltop, W.O.: **Measures of confidence associated with combining classification results.** (Orig. en). In: IEEE Transact.on Syst.,Man &.. Vol.21, No.3 1991, p.690-692

0896 255
Berliner, H.: Ebeling, C.: **Pattern knowledge and search: The SUPREM architecture.** (Orig. en). In: Artificial Intelligence Vol.38, No.2 1989, p.161-198

0897 258-39
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