Indexing:
A Current-awareness Bibliography

Jean Wheeler

Part 1

This feature is intended as a continuation of the bibliography by Hans H. Wellisch, which appeared in volumes 15 and 16 (April 1986 to October 1989) of The Indexer. The current bibliography begins with 1990–1991 publication dates. Items are numbered for cross-referencing and indexing purposes. Annotations are provided if the title of the item does not reflect its content.

AUTOMATIC INDEXING
(see also 106, 107, 130, 131, 163, 174, 177, 180, 184, 235, 243, 251)

001 Abdul, Hayati; Khoo, Christopher. Automatic indexing of medical literature using phrase matching: an exploratory study. In: Health Information: New Directions: Proceedings of the Joint Conference of the Health Libraries Sections of the Australian Library and Information Association and New Zealand Library Association, Auckland, New Zealand, 12–16 November 1989, 164–172. [Auckland, NZ]: NZLA Health Libraries Section, Conference Committee. [1990]. Bibliography. Figures. Reports on the first part of a study which explores the possibility of developing a program for automatically assigning Medical Subject Headings (MeSH) and subheadings to journal article abstracts. The study is limited to Category 8 (Respiratory tract diseases) of the MeSH thesaurus.


008 Damerau, Fred J. Evaluating computer-generated domain-oriented vocabularies. Information Processing and Management 26 no. 6 (1990): 791–801. Bibliography. Figures. Tables. Subject headings from Grolier's Encyclopedia and the United Press International newswire were used for the study. In addition to the automatic compilation of domain-oriented vocabularies, the study describes techniques for the evaluation of word lists as well as for removing frequently used words.


012 Gibb, Forbes; Smart, Godfrey. Structured information management using new techniques for processing text. Online Review 14 no. 3 (June 1990): 159–171. Bibliography. The development of the Structured Information Management: Processing and Retrieval (SIMPR) software system is discussed. The system processes documents through the classification and indexing of their subjects.
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013 Harman, Donna: Candela, Gerald. Retrieving records from a gigabyte of text on a minicomputer using statistical ranking. *Journal of the American Society for Information Science* 41 no. 8 (Dec. 1990): 581–589. *Bibliography. Figures. Tables.* Statistically based ranked retrieval of records using keywords is shown to have advantages over Boolean search methods. New indexing techniques using a minicomputer were also developed in order to create inverted files for large databases.


Analyzes the works of S.Y. Agnon. 1966 Nobel Prize winner in literature, according to three principles: dynamism, rapid access, and maneuverability.


Describes the indexes in *Bulletin Scientifique*, as well as index preparation, data entry, the author and subject indexes, and index printing.

**CITATION INDEXES AND INDEXING**

(see also 171)


Outlines the development of a citation index in India.

037 Bonitz, Manfred. *Science Citation Index* on CD-ROM: the largest expert system in the world. *International Forum on Information and Documentation* 15 no. 3 (July 1990): 9-12. Figures.

Discusses the difference between bibliographic and co-citation linking as illustrated within the *Science Citation Index* on CD-ROM.


Reviews the compact disk editions of *Science Citation Index* (SCI) and *Social Science Citation Index* (SSI), including citation indexing features.


Discusses the quality of coverage by the *Social Science Citation Index* and the *Arts and Humanities Citation Index*.


**COORDINATE INDEXING**

(see also 178, 247, 248, 290, 300, 302)


Concludes that greater intellectual input in indexing significantly improves the performance of the information retrieval system.

046 Studwell, William E. The role of universal unlimited machine manipulation in online subject access. *Technicaities* 10 no. 7 (July 1990): 5-6.


*Universal Unlimited Machine Manipulation* (UUMM).

**ECONOMICS OF INDEXING**

(see also 018)


Describes production, time, and cost factors related to the creation of three indexes: *Energy Bibliography and Index*, *Curriculum Collection Index*, and *Index to Indexes*.


Rationalizes three primary choices that govern indexing costs: folder level indexing; page level indexing; and the use of OCR/ICR (Optical Character Recognition/Intelligent Character Recognition) for indexing.

**EDUCATION AND TRAINING**

(see also 143)


**EVALUATION OF INDEXING**

(see also 014, 020, 045, 063, 184, 198)


Describes the U.S. National Library of Medicine’s *Medline* file under cystic fibrosis.


Describes a cognitive process model of classification, indexing, and abstracting based on the processes of text comprehension.


055 Piggott, Mary. Authors as their own indexers. *Indexer* 17 no. 3 (Apr. 1991): 161-166.

Attempts to determine how indexing vocabulary is controlled by subject authority lists. The CAB Thesaurus is used as a model for the study.


INDEXERS
(see also 010, 055, 059, 210)


064 Dent, Bill. Cataloguing and Indexing Group’s membership survey, 1989. Catalogue and Index no. 100 (Spring 1991): 1, 3–5. Survey carried out in the Autumn of 1988 for information regarding place and type of work, titles, geographical distribution of membership, number of administrative staff, professional interests, length of membership, and memberships in other organizations. Some comments regarding future developments are also included.


INDEX PRODUCTION
(see 048)

INDEXES


070 Muller, Wolfgang. Ein weg zu einem VD17 [A way to a VD17]. Zeitschrift für Bibliothekswesen und Bibliographie 37 no. 3 (May/June 1990): 201–221. Tables. (In German) Describes work in progress for compiling an index of 17th century German printed material, the VD17. The ambitious project began in 1982.


INDEXING NEWS- PAPERS AND SERIAL PUBLICATIONS
(see also 039, 084, 087, 088, 089, 172)


INDEXING MANUALS


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083 Smith, Nigel. Journal indexing: compiling the Legal Journals Index. Learned Publishing 3 no. 3 (July 1990): 162–167, 170–176. Describes the principle on which the production and design of the LJI subject index is based.

INDEXING SERVICES AND DATABASES
(see also 048, 057, 081)


085 Behnke, Rolf Ingo. 25 years Zeitschriftenindex (ZD). Bibliotheksdienst 24 no. 3 (1990): 351–352. (In German) Describes the scope of the service, its processing and cataloging activities. The service uses the Schlagwortnormdatei subject heading system.


089 Fox, Anne Carbery; Foster, Eloise C. Journals indexed by the AHA Resource Center for Hospital literature index and HEALTH database. Medical Reference Services Quarterly 10 no. 4 (Winter 1991): 1–13. Figures. A list of subject categories for journals indexed by the American Hospital Association (AHA) is provided.


101 Unsworth, Debra. The Index of Nursing Research. NSIG Newsletter 10 no. 4 (Winter 1990): 7–8. Provides an overview of the development of the INR from a card index in 1976 to its current availability online via DataStar.


INDEXING SOFTWARE
(see also 012, 024, 031, 252, 266, 267, 268, 284, 290)


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INDEXING SPECIAL MATERIALS AND FORMATS
(see also 006, 017, 143, 153, 167, 168, 181, 209, 220, 222, 226, 234, 240, 264)


114 Fuhr, N. Representatives and user-defined indexing in multimedia information systems. (1990). 12 p. NTIS TIB/A91–01956/HCW


124 Starbuck, John E. Seven ways to make your POPS better! *Audiovisual Librarian* 17 no. 2 (May 1991): 105–107.


127 Simpkins, Jean. How the publishers want it to look.

INDEXING STYLE
(see also 137)


132 Krause, Jurgen; Womser-Hacker, Christa. *PADOK II*: retrieval methods for Volltextindexierungsvarianten fur das Deutsche
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INDEXING TECHNIQUES
(see also 003, 079, 110)


INDEXING VOCABULARIES
(see also 008, 015, 027, 028, 129, 133, 203, 205, 212, 228, 229, 237, 254, 255, 280)


150 Jirasek, Frantisek. Selektivni jazyk deskriptoroveho typu v automatizovanim informacnim systemu MISON [The descriptor type information retrieval language of the automated information system MISON]. Ceskoslovenska informatica 32 no. 10 (1990): 304–307. (In Czech) Describes the structure as well as the use of the language developed for the MISON social sciences information storage and retrieval system.


Provides a definition of fiber art, and discusses its history, materials used, techniques, vocabularies, and design. The creators and users of fiber art vocabularies are listed and described, as are a few image databases.


155 Peat, Helen J.; Willett, Peter. The limitations of term co-occurrence data for query expansion in document retrieval systems. Journal of the American Society for Information Science 42 no. 5 (June 1991): 378-383. Bibliography. Tables. Discusses frequency characteristics and discriminatory abilities of terms and query terms. It also shows that query expansion only adds terms that do not enhance the original query’s power in subject searches.


160 Robinson, Raymond. In practice... turning a library around: a key to the contents. School Librarian 38 no. 2 (May 1990): 55. Creates an alphabetical information index to the library stock to match the curriculum.


164 Srinivasan, Padmini. A comparison of Two-Poisson, Inverse Document Frequency and Discrimination Value models of document representation. Information Processing and Management 26 no. 2 (1990): 269-278. Figures. Tables. Aims to understand the relationship between the term property, on which the Two-Poisson model is based, and other statistical properties of known index terms.


A vocabulary is defined as being a collection of terms or codes which are used in an indexing system, while a restricted subset of terms is considered to be controlled. Discusses the purpose of controlled vocabularies, as well as vocabulary scope definition, selection principles, and context independence. Syntax and semantics issues, vocabulary compatibility and the effectiveness of controlled vocabularies are also examined.


167 Thiele, Harold E. Heraldry and blazon: a graphic-based information language. Library Trends 38 no. 4 (Spring 1990): 717-736. Bibliography. Figures. An algorithm is developed to aid in describing trademarks, logos, and other graphic materials for quick location through mechanical searching techniques. A detailed explanation of the descriptive algorithm is appended, as are segment and facet descriptions, and examples of the description algorithm. A glossary of heraldic terms is provided.

168 Turner, W.A. et al. LEXITRAN for an easier public access to patent database. World Patent Information 13 no. 2 (1991): 81-90. Figures. Tables. Reports on the LEXITRAN (LEXIcon TRANslaton) project, one of the aims of which is to index patents through use of natural language processing techniques.


The selection of terms for searching is believed to be the most important aspect of enhanced searching. In this connection, the production of an interdisciplinary hierarchical thesaurus is encouraged.

**KEYWORD INDEXING**

(see also 011, 013, 019, 092, 221)


The semantic spectrum method evaluates scientific trends through the analysis of keyword frequency in publications.


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Bibliography. Figures.

Figures.
Describes the replacement of a printed KWOC index generated on a mainframe computer with a database.

Figures.

Describes the methodology used by the Phoenix College library to develop its Controversial Issues Files.


An interactive keyword information retrieval system was used to determine the implication of index-term selection strategies for user success.

178 Khanzhan, Anatolii G. O referatakh obspechivaiushchikh vysokou polnotu obora kliuchevykh slov [Abstracts which provide a full choice of key words]. Nauchno tekhnikeskaya informatiya series 1 no. 6 (1990): 24. (In Russian)


Describes the automated system under consideration and discusses various performance measures.


LEGAL ASPECTS OF INDEXING (see 090)

NAME INDEXES (see also 029, 074)


Describes the index to Yonge’s History of Christian Names, which was published in 1863 and revised in 1884.


PRECIS

Figures.
Compares the Deep Structure Indexing System (DSIS) to the PREserved Context Indexing System (PRECIS).

STANDARDS (see also 108, 127, 143)


Survey carried out by the Library and Information Technology Association’s TESLA (Technical Standards for Library Automation) committee.

187 McCallum, Sally H. Standards and linked online information systems. Library Resources and Technical Services 34 no. 3 (July 1990): 360–366.


(In Russian)

SUBJECT INDEXING (see also 001, 006, 007, 009, 015, 032, 042, 043, 051, 077, 078, 104, 107, 112, 135, 136, 145, 183, 244, 247, 248, 263, 264, 265, 294, 295, 298, 300, 302)

Bibliography.

Bibliography.
A description of the aims of ISKO is followed by a report of participants, events, and an indexing workshop.

Describes linguistic problems with free-text searching in the Chemical Abstracts database, due to a lack of linkage between abbreviations, synonyms, and search terms. Recommends, therefore, the development of a controlled vocabulary, which would consist of a limited number of terms to be used for expanding titles through clearly structured grammatical sentences. Also suggests avoiding all free-text abbreviations.

Bibliography. Figures. Tables.
 Discusses how word analysis and co-citation analysis provide an instrument for describing, evaluating, and comparing the results of co-citation analysis systematically and clearly, especially concerning aspects in relation to the cognitive content of publications.

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Identification, a natural language
processing technique developed by
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217 Martin, Sabine: 
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The ERIC facility’s pilot project
aims to provide access to statistical
tapes in the area of education.
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sources for such tapes, surrogate
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219 Okaya, Yutaka. [The
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Suggests actions that can be
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Information retrieval: smarter
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Shows the advantages of full
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Surveys Canada’s five major
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importance of subject access to
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235 Stupkin, V.V., et al.
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256 Inouye, Ronald K. Towards a *Polar Thesaurus* or, 'clichés to index by.' *Sourcex* 27 no. 3 (Summer 1990): 15–16.

257 Jackson-Schuller, Carol. Words, words, words: managing the wealth of the AAT. *Art Documentation* 9 no. 2 (Summer 1990): 75–76.


Emphasizes the value of a thesaurus for constructing SDI profiles.

260 Kim, Young Whan; Kim, Jin H. A model of knowledge based on information retrieval with hierarchical concept graph. *Journal of Documentation* 46 no. 2 (June 1990): 113–136. Figures. Tables. Describes the process by which the query and object are indexed with terms from a hierarchical-concept graph representing a thesaurus.

261 Kristensen, Joana; Jarvelin, Kalervo. The effectiveness of a searching thesaurus in free-text searching in a full-text database. *International Classification* 17 no. 2 (1990): 77–84. Tables. Describes the creation of a thesaurus to supply natural-language terms for effective free text searching in full text databases.


268 Milstead, Jessica L. Thesaurus software packages for personal computers. *Database* 13 no. 6 (Dec. 1990): 61–65. Addendum. 14 no. 3 (June 1991): 5. Tables. Seven software packages are reviewed. The packages are designed for the purpose of generating thesaurus for use with online databases.

269 A more universal thesaurus. *Quarterly Bulletin of the International Association of Agricultural Librarians and Documentalists* 35 no. 2 (1990): 104–106. Addresses format, systems, and governance issues in implementing a universal agricultural thesaurus to be used with CAB Abstracts, AGRICOLA, and AGRIS.


275 Peters, Thomas A.; Kurth, Martin. Controlled and uncontrolled vocabulary subject searching in an academic library online catalog. *Information Technology and Libraries* 10 no. 3 (Sept. 1991): 201–211. Figures. Makes several system design and instruction recommendations based on findings that users were more persistent during controlled vocabulary subject searches, but output was higher during uncontrolled vocabulary searches.


278 Pickens, Keith. Adapting ERIC to New Zealand. *New Zealand Libraries* 46 no. 6 (Sept. 1990): 22–24. Modified version of paper published in *Education Libraries Journal* (see item 277). Concludes that because only a relatively small number of new terms had to be generated, it would not be difficult or expensive to adapt the ERIC (Educational Resources Information Centre) thesaurus to produce a New Zealand Thesaurus of Education Descriptors and, following that, an Index to New Zealand Education.

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Shows the benefits to the retrieval algorithm of non-hierarchical relations in a thesaurus, when the query specifically mentions such relations. The algorithms in this study were applied to the Excerpta Medica database, where EMTREE thesaurus terms are used for indexing the citations.


Provides a brief description of the EUDISED Thesaurus followed by a description of the indexing languages to be linked to the European Education Thesaurus for building the Metathesaurus.


Reports on the method and criteria used by the Department of Library and Information Science at the University of South Africa in developing the thesaurus.


Discusses the use of thesauri as tools for automated information retrieval.


Laurentian University is a bilingual institution in Northern Ontario. This paper provides some preliminary remarks about the indexing in MultiLIS, and describes the MultiLIS authority module, its use in a bilingual setting, and its potential for a multilingual and multithesaurus environment.


Discusses progress made to date by the agricultural information community to eliminate duplicate coverage in thesaurus-based agricultural information sources.

293 Thomas, Sarah E. Unified agricultural thesaurus discussed at NAL. Quarterly Bulletin of the International Association of Agricultural Information Specialists 35 no. 4 (1990): 198. Provides an overview of a Dec. 11, 1990 meeting, sponsored by the US National Agricultural Library, where the development of a compatible agricultural thesaurus was discussed.


Studies indexing as a part of the process of capturing a document image.


The hierarchical arrangement is to replace an alphabetical display in order to facilitate browsing online for large numbers of items, and for creating an automatic thesaurus generator.


Discusses issues concerning the maintenance of a controlled vocabulary and thesaurus for the INSPEC database.


Describes the thesaurus module developed for the Bookshelf Automated Library system.


Argues in favour of the creation of a new Chinese thesaurus.