

Bibliography

- [1] Armstrong, R., Freitag, D., Joachims, T., and Mitchell, T., 1995. 'WebWatcher: A Learning Apprentice for the World Wide Web', in *1995 AAAI Spring Symposium on Information Gathering from Heterogeneous, Distributed Environments*. March, 1995, 6-12.
- [2] Balabanović, M., 1997. 'An Adaptive Web Page Recommendation Service', in *Proceedings of the First International Conference on Autonomous Agents*, Marina del Rey, California, February 5-8, 1997, 378-385.
- [3] Beaumont, I. H., 1998. 'User Modelling in the Interactive Anatomy Tutoring System ANATOM-TUTOR', in P Brusilovsky, A. Kobsa, and J. Vassileva (eds), *Adaptive Hypertext and Hypermedia*, Netherlands: Kluwer Academic Publishers, 91-115.
- [4] Berners-Lee, T., Masinter, L., and McCahill, M., 1994. Uniform resource locators. Technical report, Internet Engineering Task Force, 1994. Draft RFC.
- [5] Berners-Lee, T., Hendler, J., and Lassila, O., 2001. 'The Semantic Web'. In *Scientific American*, May 2001.
- [6] Bieber, M., Vitali, F., Ashman, H., Balasubramanian, V. and Oinas-Kukkonen, H., 1997. 'Fourth generation hypermedia: some missing links for the World Wide Web', in *International Journal of Human-Computer Studies*, 47. 1, Academic Press, 31 - 65. <http://www.hbuk.co.uk/ap/ijhcs/webusability/bieber/bieber.html> (28th December, 2000).
- [7] Bloomberg Television. Bloomberg L.P., 499 Park Avenue, New York, NY 10022.

- [8] Bollen, J., and Heylighen F., 1996. 'Algorithms for the self-organisation of distributed, multi-user networks. Possible application to the future World Wide Web', in R. Trappl (ed.), *Cybernetics and Systems '96*, Austrian Society for Cybernetics, 911-916. <http://pespmc1.vub.ac.be/papers/SelfOrganWWW.html> (28th December, 2000).
- [9] Boyle, C., and Encarnacion, A.O., 1998. 'Metadoc: An Adaptive Hypertext Reading System', in P. Brusilovsky, A. Kobsa, and J. Vassileva (eds), *Adaptive Hypertext and Hypermedia*. Netherlands: Kluwer Academic Publishers, 71-89.
- [10] Brauen, T.L., 1971. 'Document vector modification', in *The Smart Retrieval System - Experiments in Automatic Document Processing*, G. Salton, (ed.), Englewood Cliffs, NJ: Prentice-Hall Inc., 456-484.
- [11] Brézillon, P., and Abu-Hakima, S., 1995. 'Using Knowledge in its Context: Report on the IJCAI-93 Workshop', in *AI Magazine*, 16. 1 (Spring), 87-91.
- [12] Brézillon, P. and Cavalcanto, M., 1997. 'Modeling and Using Context: Report on the First International and Interdisciplinary Conference CONTEXT-97', in *The Knowledge Engineering Review*, 12. 4, 1-10.
- [13] Brickley, D., and Guha, R.V. (eds), 2000. Resource Description Framework (RDF) Schema Specification 1.0. World Wide Web Consortium (W3C) Candidate Recommendation, 27th March 2000. <http://www.w3.org/TR/2000/CR-rdf-schema-20000327> (13th August 2001).
- [14] Brusilovsky, P., 1997. 'Efficient Techniques for Adaptive Hypermedia', in C. Nicholas, and J. Mayfield (eds), *Intelligent Hypertext: Advanced Techniques for the World Wide Web*. Lecture Notes in Computer Science, Volume 1326, Berlin: Springer-Verlag, 12-30.
- [15] Brusilovsky, P., 1998. 'Methods and Techniques of Adaptive Hypermedia', in P. Brusilovsky, A. Kobsa, and J. Vassileva (eds), *Adaptive Hypertext and Hypermedia*, Netherlands: Kluwer Academic Publishers, 1-43.
- [16] Brusilovsky, P. and Eklund, J., 1998. 'A Study of User Model Based Link Annotation in Educational Hypermedia', in *Journal of Universal Computer Science*. 4. 4 , 429-448.

- [17] Brusilovsky, P., Schwarz, E., and Weber, G., 1996. 'ELM-ART: An Intelligent Tutoring System on World Wide Web', in C. Frasson, G. Gauthier, and A. Lesgold (eds), *Intelligent Tutoring Systems*, Lecture Notes in Computer Science, Volume 1086, Berlin: Springer-Verlag, 261-269.
- [18] Buckley, C. and Salton, G., 1995. 'Optimization of Relevance Feedback Weights', in *SIGIR95: Proceedings of the Eighteenth Annual International ACM SIGIR Conference on Research and Development in Information Retrieval*, Seattle, Washington, July 9-13, New York: ACM Press, 351-357.
- [19] Callan, J.P., 1994. 'Passage-level evidence in document retrieval', in *Proceedings of SIGIR-94: The 17th ACM Conference on Research and Development in Information Retrieval*, Dublin, July, 302-310.
- [20] Calvi, L., and De Bra, P., 1997. 'Improving the Usability of Hypertext Courseware through Adaptive Linking'. In *Proceedings of the Eighth ACM Conference on Hypertext: Hypertext'97*, Southampton, UK, April 6-11, 1997, UK: ACM Press, 224-225.
- [21] Carr, L.A., Hall, W., and Hitchcock, S., 1998. 'Link Services or Link Agents?', in *The Proceedings of the Ninth ACM Conference on Hypertext and Hypermedia*. Pittsburgh, Pennsylvania, USA. June 20-24, 1998, USA: ACM Press, 113-122.
- [22] Catledge, L.D., and Pitkow, J.E., 1995. 'Characterising Browsing Strategies in the World-Wide Web', in *Computer Networks and ISDN Systems*, 27. 6, April 1995, 1065-1073.
- [23] Chen, C., Thomas, L., Cole, J., and Chennawasin, C., 1999. *Representing the Semantics of Virtual Spaces*, in *IEEE Multimedia* 6. 2 (April-June 1999), 54-63.
- [24] Curtis, R. and Atkinson, R., 1980. 'Sir Marcus Browning M.P.', in *Rowan Atkinson: Live in Belfast*, (Long Playing record). London: Arista Records.
- [25] da Silva, D.P., Van Durm, R., Duval, E., and Olivie, H., 1998. 'Concepts and documents for adaptive educational hypermedia: a model and a prototype'. In *Proceedings of the Second Workshop on Adaptive Hypertext and Hypermedia. HYPERTEXT'98*, Pittsburgh, USA, June 20-24, 1998, 35-44.
<http://wwwis.win.tue.nl/ah98/Pilar/Pilar.html>. (13th August, 2001).

- [26] da Vinci, L. 1497. The Last Supper. Tempera on plaster, 460 x 880 cm (15 x 29 ft.), Convent of Santa Maria delle Grazie (Refectory), Milan, Italy.
- [27] Davis, H., Hall, W. Heath, I., Hill, G., and Wilkins, R., 1992. Microcosm: An Open Hypermedia Environment for Information Integration. Technical Report CSTR 92-15. University of Southampton.
- [28] De Bra, P., and Calvi, L., 1998. 'AHA: A Generic Adaptive Hypermedia System', in *Proceedings of the 2nd Workshop on Adaptive Hypertext and Hypermedia, HYPERTEXT'98*, Pittsburgh, USA, June 20-24, 1998, 5-12.
- [29] DeRose, S., Maler, E., Daniel Jr., R. (eds), 2001. The XML Pointer Language (XPointer). World Wide Web Consortium (W3C) Recommendation, 8th January 2001. <http://www.w3.org/TR/2001/WD-xptr-20010108> (13th August 2001).
- [30] DeRose, S., Maler, E., Orchard, D. (eds), 2001. The XML Linking Language (XLink). World Wide Web Consortium (W3C) Recommendation, 27th June 2001. <http://www.w3.org/TR/2001/REC-xlink-20010627/> (13th August 2001).
- [31] Eklund, J., and Zeiliger, R., 1996. 'Navigating the Web: Possibilities and Practicalities for Adaptive Navigational Support', in *Proceedings of AusWeb96: Second Australian World Wide Web Conference*, Queensland, Australia, July 7-9, 1996, 73-80.
<http://www.scu.edu.au/sponsored/ausweb/ausweb96/tech/eklund1/paper.html>.
(28th December, 2000).
- [32] Eklund, J., and Sinclair, K., 2000. 'An empirical appraisal of the effectiveness of adaptive interfaces for instructional systems'. In *Educational Technology and Society*, Volume 3 Number 4 (October), International Forum of Educational Technology and Society. http://ifets.ieee.org/periodical/vol_4_2000/eklund.html (13th August, 2001).
- [33] El-Beltagy, S. R., Hall, W., De Roure, D., and Carr, L., forthcoming. 'Linking in Context'. To appear in *Proceedings of Hypertext 2001*.
- [34] Farwell, D. and Helmreich, S., 1995. 'Contextualizing Natural Language Processing'. Manuscript. Computing Research Laboratory, New Mexico State University, Las Cruces, New Mexico.

- [35] Fink, J., Kobsa, A., and Nill, A., 1996. 'User-Oriented Adaptivity and Adaptability in the AVANTI Project', in *Proceedings of the Conference: Designing for the Web - Empirical Studies*, Redmond: Microsoft Usability Group.
- [36] Foltz, P.W. and Dumais, S.T., 1992. 'Personalized information delivery: an analysis of information filtering methods' in *Communications of the Association of Computing Machinery (CACM)*, 35. 12, 51-60.
- [37] Foltz, P. W., 1996. 'Comprehension, coherence, and strategies in hypertext and linear text', in J. Levonen, J. F. Rouet, A. Dillon, and R. Spiro (eds), *Hypertext and Cognition*, New Jersey: Lawrence Erlbaum Associates, 109-136.
<http://www-psych.nmsu.edu/~pfoltz/reprints/Ht-Cognition.html>. (28th December, 2000).
- [38] Giunchiglia, F., 1992. Contextual Reasoning, Technical Report #9211-20, Istituto per la Ricerca Scientifica e Tecnologica, Povo (Trento), Italy.
- [39] Giunchiglia, F., and Bouquet, P., 1997. Introduction to Contextual Reasoning: An Artificial Intelligence Perspective. Technical Report #9705-19, Istituto per la Ricerca Scientifica e Tecnologica, Povo (Trento), Italy.
- [40] Giunchiglia, F., and Ghidini, C., 1997. Local Models Semantics, or Contextual Reasoning = Locality + Compatibility. Technical Report #9701-07, Istituto per la Ricerca Scientifica e Tecnologica, Povo (Trento), Italy.
- [41] Free Software Foundation, Inc., 1991-. GNU General Public Licence.
<http://www.fsf.org/copyleft/gpl.html>. (28th December, 2000).
- [42] Grice, H. P., 1975. *Logic and Conversation*, in P. Cole and J. L. Morgan (eds), *Syntax and Semantics III: Speech Acts*, New York: Academic Press, 41-58.
- [43] Grønbaek, K. and Trigg, R. H. (1994) 'Hypermedia System Design Applying the Dexter Model'. In *Communications of the ACM*, Volume 37 Number 2 (February), Association for Computing Machinery Press, 26-29.
- [44] Guha, R.V., 1991. Contexts: A Formalization and some Applications, STAN-CS-91-1399, Stanford Computer Science Department, Stanford University.

- [45] Halasz, F. and Schwartz, M., 1994. 'The Dexter Hypertext Reference Model', in *Communications of the ACM*, Volume 37 Number 2 (February), Association for Computing Machinery Press, 30-39.
- [46] Hardman, L., Bulterman, D. C. A., and Van Rossum, G., 1994. 'The Amsterdam hypermedia model: Adding time and content to the Dexter model'. In *Communications of the ACM*, Volume 37 Number 2 (February), Association for Computing Machinery Press, 50-62.
- [47] Heylighen F., 2000. 'Bootstrapping knowledge representations: from entailment meshes via semantic nets to learning webs', in *Kybernetes* (in press).
<http://pespmc1.vub.ac.be/papers/BootstrappingPask.html>. (28th December, 2000).
- [48] Hughes, K., 1994. SWISH-E: Simple Web Indexing System for Humans - Enhanced, version 1.3. <http://sunsite.Berkeley.EDU/SWISH-E/>. (28th December, 2000).
- [49] Ide, E. and Salton, G., 1971. 'Interactive search strategies and dynamic file organization in information retrieval', in *The Smart Retrieval System - Experiments in Automatic Document Processing*, G. Salton, (ed.), Englewood Cliffs, NJ: Prentice-Hall Inc., 373-393.
- [50] Joachims, T., Freitag, D., and Mitchell, T., 1997. 'WebWatcher: A Tour Guide for the World Wide Web', in M.E. Pollack (ed.), *Proceedings of IJCAI-97: 15th International Joint Conference on Artificial Intelligence*, San Francisco: Morgan Kaufmann Publishers, 770-775.
- [51] Jurisica, I., and Glasgow, J., 1997. 'Improving Performance of Case-Based Classification using Context-Based Relevance', in *International Journal of Artificial Intelligence Tools. Special Issue of IEEE ITCAI-96 Best Papers*, 6. 4, 511-536.
- [52] Kahan, J., and Koivunen M-R., 2001. 'Annotea: An Open RDF Infrastructure for Shared Web Annotations', in *Proceedings of the Tenth International World Wide Web Conference*. Hong Kong, May 1-5, 2001, USA: ACM Press, 623-632.
- [53] Kaszkiel, M. and Zobel, J., 1997. 'Passage Retrieval Revisited', in *Proceedings of the 20th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval*. Philadelphia, Pennsylvania, USA. July 27-31, 1997, New York: ACM Press, 178-185.

- [54] Kay, J., and Kummerfeld, R.J., 1994. 'An Individualised Course for the C Programming Language', in *Second International World-Wide Web Conference: Mosaic and the Web*, Chicago, IL, October 17-20, 1994, Urbana, USA: National Center for Supercomputer Applications, University of Illinois at Urbana-Champaign.
<http://www.ncsa.uiuc.edu/SDG/IT94/Proceedings/Educ/kummerfeld/kummerfeld.html> (28th December, 2000).
- [55] Kobsa, A. 1993. 'User Modeling: Recent Work, Perspectives and Hazards', in M. Scheider-Hufschmidt, T. Kühme, and U. Malinowski (eds), *Adaptive User Interfaces: Principles and Practice*, Amsterdam: North-Holland, 111-128.
- [56] Kobsa, A., Müller, D., and Nill, A., 1994. 'KN-AHS: An Adaptive Hypertext Client of the User Modeling System BGP-MS', in *Proceedings of the Fourth International Conference on User Modeling*, Hyannis, MA, USA, 1996, Massachusetts:MITRE Corporation, 99-106.
- [57] Kobsa, A., and Pohl, W., 1995. 'The User Modeling Shell System BGP-MS', in *User Modeling and User-Adapted Interaction*, 4. 2, 59-106.
- [58] Lam, W., Mukhopadhyay, S., Mostafa, J., and Palakal, M., 1996. 'Detection of Shifts in User Interests for Personalized Information Filtering', in *SIGIR '96: Proceedings of the Nineteenth Annual International ACM SIGIR Conference on Research and Development in Information Retrieval*, August 18-22, Zurich: Association for Computing Machinery, 317-325.
- [59] Losee, R.M., 1997. 'Comparing Boolean and Probabilistic Information Retrieval Systems across Disciplines and Queries', in *Journal of the American Society for Information Science*, 48. 2, 143-156.
- [60] Maglio, P.P., and Barrett, R., 1998. 'Adaptive Communities and Web Places', in *Proceedings of the Second Workshop on Adaptive Hypertext and Hypermedia HYPertext'98*, Pittsburgh, USA, June 20-24.
<http://www.cssrv.almaden.ibm.com/wbi/papers/webplace.html>. (28th December, 2000).

- [61] Mathé, N. and Chen, J., 1994. 'A User-Centered Approach to Adaptive Hypertext based on an Information Relevance Model', in *Proceedings of the Fourth International Conference on User Modeling*, Hyannis, MA, August 15-19, 107-114.
- [62] Mayfield, J., 1994. 'Two-Level Models of Hypertext as an underpinning for AHSs', in *Proceedings of Adaptive Hypertext and Hypermedia Workshop*, held in conjunction with UM'94 (Fourth International Conference on User Modeling), August 17, Hyannis, Cape Cod, Massachusetts, USA.
<http://wwwis.win.tue.nl/ah94/Mayfield.html>. (28th December, 2000).
- [63] McCarthy, J., 1993. 'Notes on Formalizing Context', in *Proceedings of the Thirteenth International Joint Conference on Artificial Intelligence*, California: Morgan Kaufmann, 81-98.
- [64] McCarthy, J., 1996. A Logical AI Approach to Context. Technical note, Computer Science Department, Stanford University, Stanford, CA. <http://www-formal.stanford.edu/jmc/logical.html>. (28th December, 2000).
- [65] McCarthy, J., and Buvac, S., 1994. Formalizing Context (Expanded Notes), Technical Note STAN-CS-TN-94-13. Stanford University.
- [66] Mizzaro, S., 1998, 'How many relevances in information retrieval?', in *Interacting With Computers*, 10. 3, 305-322.
- [67] Mukherjea, S. and Hara, Y., 1997. 'Focus+Context Views of World-Wide Web Nodes', in *Proceedings of Hypertext97: The Eighth ACM Conference on Hypertext*, Southampton, April 6-11, UK: ACM Press, 187-196.
- [68] Paterno, F., and Mancini, C., 1999. 'Designing Web User Interfaces Adaptable to Different Types of Use'. In *Museums and the Web 1999*.
<http://www.archimuse.com/mw99/papers/paterno/paterno.html> (13th August, 2001).
- [69] Porter, M.F., 1980. 'An algorithm for suffix stripping', in *Program*, 14. 3, 130-137.

- [70] Rabinowitz, J., Mathé, N., and Chen, J.R., 1995. 'Adaptive HyperMan: A Customizable Hypertext System for Reference Manuals', in *Working Notes of the AAAI Fall Symposium on Artificial Intelligence Applications in Knowledge Navigation and Retrieval*, Cambridge, MA, November 10-12, 110-115. <http://ic-www.arc.nasa.gov/ic/projects/aim/papers/AHM-Mathe.ps>. (28th December, 2000).
- [71] Rich, E. 1979. 'User Modeling via Stereotypes', in *Cognitive Science*, 3, 329-354.
- [72] Rich, E., 1989. 'Stereotypes and User Modeling', in A. Kobsa, and W. Wahlster (eds), *User Models in Dialog Systems*, Berlin: Springer, 35-51.
- [73] Roberts, C., 1996. 'Information Structure in Discourse: Toward a Unified Theory of Formal Pragmatics', in J.H. Yoon and A. Kathol (eds), *Ohio State University Working Papers in Linguistics*, volume 49. Department of Linguistics, Ohio State University.
- [74] Rocchio, J.J., 1971. 'Relevance Feedback in Information Retrieval', in G. Salton (ed.), *The SMART Retrieval System - Experiments in Automatic Document Processing*. Englewood Cliffs, USA: Prentice-Hall, Chapter 14.
- [75] Rosenberg, J., 1996. 'The Structure of Hypertext Activity', in *Hypertext '96. Proceedings of the Seventh ACM Conference on Hypertext*, Washington DC, March 16-20, ACM Press, 22-30.
- [76] Ruthven, I. and van Rijsbergen, C.J., 1996. 'Context Generation in Information Retrieval', in *Florida Artificial Intelligence Research Symposium, Flairs '96*, Key West, April 20 - 22.
- [77] Salton, G., Wong, A., and Yang C.S., 1975. 'A Vector Space Model for Automatic Indexing', in *Communications of the ACM*, 18, 613-620.
- [78] Salton, G. and McGill, M.J., 1983. Introduction to Modern Information Retrieval, New York: McGraw-Hill Book Company.
- [79] Salton, G. and Buckley, C., 1988. 'Term weighting approaches in automatic text retrieval', in *Information Processing and Management*, 24. 5, 513-523.

- [80] Schank, R.C., 1982. Dynamic Memory: A Theory of Reminding and Learning in Computers and People, Cambridge, UK: Cambridge University Press.
- [81] Schneider-Hufschmidt, M., Kühme, T., Malinowski, U. (eds), 1993. Adaptive User Interfaces: Principles and Practice, Amsterdam: North-Holland.
- [82] Singh, N., Tawakol, O., and Genesereth, M., 1995. 'A Name Space Context Graph for Multi-Context, Multi-Agent Systems', in S. Buvac (ed.), *Formalizing Context*, California, USA: AAAI Press, 79-84.
- [83] Sombé, L., 1990. Reasoning under incomplete information in Artificial Intelligence. International Journal of Intelligent Systems, 5. 4 (September). New York: John Wiley and Sons, Inc.
- [84] Staff, C., 1997. 'HyperContext: Using Context for Adaptive Hypertext', in *Proceedings of the International and Interdisciplinary Conference on Modeling and Using Context (CONTEXT-97)*, Rio de Janeiro, Brazil, February 4-6, Federal University of Rio de Janeiro Ed., 243-255.
- [85] Staff, C., 1997. 'HyperContext: A Model for Adaptive Hypertext', in *User Modeling: Proceedings of the Sixth International Conference UM97*, Chia Laguna, Sardinia, Italy, June 2-5, Italy: SpringerWeinNewYork, 33-35.
- [86] Sumner, R. G., Yang, K., Akers, R., Shaw, W. M., 1998. 'Interactive retrieval using IRIS: TREC-6 Experiments', in *The Sixth Text Retrieval Conference (TREC-6) Proceedings*, Washington, DC: U.S. Government Printing Office, 711-734. http://ils.unc.edu/unc_trec6/. (28th December, 2000).
- [87] Sun Microsystems, Inc., 1992-1996. The Java(tm) Developers Kit 1.0.2, Sun Microsystems, Inc. <http://java.sun.com>. (28th December, 2000).
- [88] Theng, Y.L., Thimbleby, H. and Jones, M., 1995, 'Reducing information overload: a comparative study of hypertext systems', in *IEE Colloquium on "Information Overload"*, Digest No: 95/223, U.K.
- [89] Theng, Y. L., Thimbleby, H. and Jones, M. 1996, "'Lost in hyperspace': Psychological problem or bad design?", in *Asia-Pacific Computer-Human Interaction'96*, Singapore, 387-396.

- [90] van Rijsbergen, C.J., 1979. Information Retrieval, London: Butterworths.
<http://www.dcs.gla.ac.uk/Keith/Preface.html>. (28th December, 2000).
- [91] Voorhees, E., Gupta, N.K., and Johnson-Laird, B., 1994. 'The Collection Fusion Problem', in *Overview of the Third Text REtrieval Conference (TREC-3)*, Gaithersburg, MD, November 2-4, NIST Special Publication 500-225, Department of Commerce, National Institute of Standards and Technology, 95-104.
- [92] Weigel, R., Faltings, B., and Choueiry, B., 1995. 'Context in Discrete Constraint Satisfaction Problems', in *Twelfth European Conference on Artificial Intelligence '96*, August, 1996, Wiley, 205-212.
- [93] Wilkinson, R. and Zobel, J. 1994. 'Comparison of fragmentation schemes for document retrieval', in *Third Text REtrieval Conference (TREC-3)*, Gaithersburg, Maryland, November 1994, 81-84.
- [94] Woods, W.A., 1985. 'What's in a Link: Foundations for Semantic Networks', in R.J. Brachman and H.J. Levesque (eds), *Readings in Knowledge Representation*, San Mateo, California: Morgan Kaufmann, 217-241.
- [95] Yan, T.W., Jacobsen, M., Garcia-Molina, H., and Dayal, U., 1996. 'From User Access Patterns to Dynamic Hypertext Linking', in *Proceedings of the Fifth World-Wide Web Conference*, Paris, France, May 6-10, Elsevier, 1007-1014.
http://www5conf.inria.fr/fich_html/papers/P8/Overview.html. (28th December, 2000).