

- HAREL, I./PAPERT, S.: Software Design as a Learning Environment. In: Harel, I./Papert, (eds): *Constructivism*. Norwood, NJ: Ablex Publishing (1991) 41-84
- HAREL, I./PAPERT, S. (eds): *Constructionism*. Norwood, NJ: Ablex Publishing 1991
- HARIAND, M.: Learning Through Browsing: Observations on the Production of Self-directed Learning Systems for Language Students. In: Oliveira, A. (ed): *Hypermedia Courseware: Structures of Communication and Intelligent Help* (NATO ASI Series. Series F: Computer and Systems Sciences; 92) Berlin/Heidelberg: Springer (1992) 79-90
- HARRIS, M./CADY, M.: The Dynamic Process of Creating Hypertext Literature. In: *Educational Technology* 11 28 (1988) 33-40
- HARTLEY, S.S.: Meta-Analysis of the Effects of Individually Paced Instruction in Mathematics: University of Colorado 1977 (University Microfilms No. 77-29,926 Dissertation)
- HARTMAN, H./STERNBERG, R.J.: A Broad BACEIS for Improving Thinking. In: *Instructional Science* 5 21 (1993) 401-425
- HARTOG, R.: Qualitative Simulation and Knowledge Representation for Intelligent Tutoring. In: Maurer, H. (ed): *Computer Assisted Learning. Proceedings 2 Int. Conf. ICCAL* (Lecture Notes in Computer Science; 360) Berlin/Heidelberg: Springer (1989) 193-213
- HASEBROOK, J.: Lernen mit Multimedia. In: *Zeitschrift für Pädagogische Psychologie* 6 9 (1995) 95-103
- HASSELERHARM, E./LEEMKUIL, H.: The Relation between Instructional Control Strategies and Performance and Attitudes in Computer-Based Instruction. In: Pieters, J.M./Simons, P.R.J./De Leeuw, L. (eds): *Research on Computer-Based Instruction*. Amsterdam: Swets & Zeitlinger (1990) 67-80
- HAUGELAND, J. (ed): *Mind Design*. Bradford Books, The M.I.T. Press 1981
- HAUGELAND, J.: *Artificial Intelligence. The Very Idea*. Cambridge, MA, London, UK: Bradford Books, The M.I.T. Press 1985
- HAUGEN, H.: Multimedia Learning Environment: An Educational Challenge. In: Giardina, M. (ed): *Interactive Multimedia Learning Environments. Human Factors and Technical Considerations on Design Issues* (NATO ASI Series. Series F: Computer and Systems Sciences; 93) Berlin/Heidelberg: Springer (1992) 39-45
- HAWKRIDGE, D.: The State of Computer-Based Training After 25 Years. In: Bernold, T./Finkelstein, J. (eds): *Computer Assisted Approaches to Training*. Amsterdam: North-Holland (1988) 25-43
- HEDLEY, C.N./ELLSWORTH, N.: Critical Thinking with Computers: Drawings and Graphics. In: *Reading and Writing: An Interdisciplinary Journal* 1 9 (1993) 121-127
- HELLER, R.S.: The Role of Hypermedia in Education: A Look at the Research Issues. In: *Journal of Research on Computing in Education* 4 22 (1990) 431-441
- HELLER, R.S.: Evaluating Software: A Review of the Options. In: *Computers and Education* 4 17 (1991) 285-291
- HERRMANN, T.: Zur Gestaltung der Mensch-Computer-Interaktion: Systemerklärung als kommunikatives Problem. Tübingen: Max Niemeyer Verlag 1986
- HERRTWICH, R.G. (ed): *Network and Operating System Support for Digital Audio and Video*. Berlin/Heidelberg: Springer 1992
- HEWITT, T.T.: The Drexel Disk: An Electronic »Guidebook«. In: Diaper, D./Winder, R. (eds): *People and Computers III* (British Computer Society Conference Series; 3) Cambridge: Cambridge University Press (1987) 115-129
- HEYWOOD-EVERETT, G.: Computer Instruction in the Classroom Context. Special Issue: Children, Teachers and Information Technology. In: *Early Child-Development and Care* 69 (1991) 71-79
- HICKEN, S./SULLIVAN, H./KLEIN, J.D.: Learner Control Modes and Incentive Variations in Computer-Delivered Instruction. In: *Educational Technology, Research and Development* 4 40 (1992)
- HILLINGER, M.L.: Computer Speech and Responsive Text: Hypermedia Support for Reading Instruction. In: *Reading and Writing: An Interdisciplinary Journal* 2 4 (1992) 219-229
- HILTZ, S.R.: The Virtual Classroom: Software for Collaborative Learning. In: Barrett, E. (ed): *Sociomedia: Multimedia, Hypermedia, and the Social Construction of Knowledge*. Technical Communication and Information Systems. Cambridge/London: M.I.T. Press (1992) 347-368

- HODGES, M.E./SASNETT, R.M./ACKERMAN, M.S.: A Construction Set for Multimedia Applications. In: *IEEE Software* 1 6 (1989) 37-43
- HODGES, M.E./SASNETT, R.M. (eds): *Multimedia Computing: Case Studies from MIT Project ATHENA*. Reading, MA. u.a.: Addison-Wesley 1993
- HOELSCHER, K.J.: Bridging the Classroom and the Real World: A Videodisc Implementation Study at Harvard Law School. Paper presented at the Annual Meeting of the American Educational Research Association (Boston, MA, April 16-20, 1990) - Report
- HOFFMANN, M./LANGENDÖRFER, H. ET AL: The Principle of Locality Used for Hypertext Presentation: Navigation and Browsing in CONCORDE. In: Diaper, D./Hammond, N. (eds): *People and Computers VI. Proceedings of the HCI '91 Conference* (British Computer Society Conference Series; 3) Cambridge: Cambridge University Press (1991) 435-452
- HOFFMANN, M./SCHREIWEIS, U./LANGENDÖRFER, H.: An Integrated Approach of Knowledge Acquisition by the Hypertext System CONCORDE. In: Rizk, A./Streitz, N.A./André, J. (eds): *Hypertext: Concepts, Systems, and Applications. Proceedings of the ECHT'90 European Conference on Hypertext INRIA*. Cambridge: Cambridge University Press (1990) 166-179
- HÖHNE, K.H./BOMANS, M. ET AL: A Volume-based Anatomical Atlas. In: *IEEE Computer Graphics & Applications* 4 12 (1992) 72-78
- HOLDEN, L.: Carnegie Mellon's STUDIO for Creative Inquiry [and] The Interdisciplinary Teaching Network (ITeN) [and] Interactive Fiction [and] The Networked Virtual Art Museum. In: *Bulletin of the American Society for Information Science* 1 19 (1992) 9-14
- HOLLAN, J.D./HUTCHINS, E.L./WEITZMAN, I.M.: STEAMER: An Interactive, Inspectable, Simulation-Based Training System (Nachdruck des Artikels aus The AI Magazine 1994). In: Kearsley, G.P. (ed): *Artificial Intelligence and Instruction*. Reading, MA. u.a.: Addison-Wesley (1987) 113-134
- HOLMES, T.: Electronic Music Lover's Companion: An Interactive Guide to Classic Electronic Music. In: Berk, E./Devlin, J. (eds): *Hypertext/Hypermedia Handbook*. New York: McGraw-Hill (1991) 512-518
- HONEBEIN, P.C./DUFFY, T.M./FISHMAN, B.J.: Constructivism and the Design of Learning Environments: Context and Authentic Activities for Learning. In: Duffy, T.M./Lowyck, J./Jonassen, D.H. (eds): *Designing Environments for Constructive Learning* (NATO ASI Series. Series F: Computer and Systems Sciences; 105) Berlin/Heidelberg: Springer (1993) 87-108
- HOPTMAN, G.: The Virtual Museum and Related Epistemological Concerns. In: Barrett, E. (ed): *Sociomedia: Multimedia, Hypermedia, and the Social Construction of Knowledge. Technical Communication and Information Systems*. Cambridge/London: M.I.T. Press (1992) 141-159
- HORNEY, M.A.: Case Studies of Navigational Patterns in Constructive Hypertext. In: *Computers and Education* 3 20 (1993) 257-270
- HORTON, W.: Figures of Image: Aristotle and the Design of Icons and Hypermedia. In: *Technical Communication: Journal of the Society for Technical Communication* 3 40 (1993) 495-499
- HOUNSELL, D.: Lehr- und Lernforschung im Hochschulbereich. In: Huber, L. (ed): *Ausbildung und Sozialisation in der Hochschule* (Enzyklopädie Erziehungswissenschaft; 10) Stuttgart: Klett-Cotta (1983) 355-366
- HRIBAR, D.C./MAY, D.C. ET AL: Virtual Environment Training: Auxiliary Machinery Room (AMR) Watchstation Trainer. In: *Journal of Instruction Delivery Systems* 2 7 (1993) 9-17
- HSU, J.J./CHAPELLE, C.A./THOMPSON, A.D.: Exploratory Learning Environments: What are They and Do Students Explore? In: *Journal of Educational Computing Research* 1 9 (1993) 1-15
- HUANG, S.D./AILOI, J.: The Impact of Using Interactive Video in Teaching General Biology. In: *American Biology Teacher* 5 53 (1991) 281-284
- HUDSON, T.J./HOLLAND, S.: Interactive Multimedia Instruction in Video Production Classes. In: *Journalism Educator* 3 47 (1992) 18-26
- HUNKA, S.: Design Guidelines for CAI Authoring Systems. In: *Educational Technology* 11 29 (1989) 12-17
- HÜSER, C./WEBER, A.: The Individualized Electronic Newspaper: An Application Challenging Hypertext Technology. In: Cordes, R./Streitz, N.A. (eds): *Hypertext und Multimedia*. Berlin/Heidelberg: Springer (1992) 62-74
- HUTCHINGS, G.A./CARR, L./HALL, W.: Stackmaker: An Environment for Creating Hypermedia Learning Material. In: *Hypermedia* 3 4 (1992) 197-211

- HUTCHINGS, G.A./HALL, W./COLBOURN, C.J.: Patterns of Students' Interactions with a Hypermedia System. In: *Interacting with Computers* 3 5 (1993) 295-313
- HUTCHINS, E.L.: Metaphors for Interface Design. In: Taylor, M.M./Néel, F./Bouwhuis, D.G. (eds): *The Structure of Multimodal Dialogue*. Amsterdam/New York u.a.: North-Holland (1989) 11-28
- INSTONE, K./TEASLEY, B.M./LEVENTHAL, L.M.: Empirically-Based Re-design of a Hypertext Encyclopedia. In: *Proceedings of the ACM INTERCHI '93 Conference*. Amsterdam (1993)
- IRLER, W.J.: Selbsterklärendes kausales Netzwerk zur Hypothesenüberprüfung im Hypertext. In: Glowalla, U./Schoop, E. (eds): *Hypertext und Multimedia. Neue Wege in der computerunterstützten Aus- und Weiterbildung*. Berlin/Heidelberg: Springer (1992) 108-117
- IRLER, W.J./BARBIERI, G.: Non-obtrusive Hypertext Anchors and Individual Colour Markings. In: Rizk, A./Streitz, N.A./André, J. (eds): *Hypertext: Concepts, Systems, and Applications. Proceedings of the ECHT'90 European Conference on Hypertext INRIA*. Cambridge: Cambridge University Press (1990) 261-273
- ISBISTER, K./LAYTON, T.: Agents: What (or Who) are They? In: Nielsen, Jakob (ed): *Advances in Human-Computer Interaction (Advances in Human-Computer Interaction; 5)* Norwood, NJ: Ablex Publishing (1995) 67-85
- ISSING, L.J./HAACK, J.: Bildverarbeitung und Bildrepräsentation im dialogischen Lernen. In: Mandl, H./Fischer, P.M. (eds): *Lernen im Dialog mit dem Computer*. München/Wien/Baltimore: Urban & Schwarzenberg (1985) 106-117
- JACKSON, D./EDWARDS, B.J./BERGER, C.F.: The Design of Software Tools for Meaningful Learning by Experience: Flexibility and Feedback. In: *Journal of Educational Computing Research*, 3 9 (1993) 413-443
- JACOBS, G.: Hypermedia and Discovery-Based Learning: A Historical Perspective. In: *British Journal of Educational Technology*, 2 23 (1992) 113-121
- JACOBSON, M.J.: Issues in Hypertext and Hypermedia Research: Toward a Framework for Linking Theory-to-Design. In: *Journal of Educational Multimedia and Hypermedia* 2 3 (1994) 141-154
- JACOBSON, M.J./SPIRO, R.J.: A Framework for the Contextual Analysis of Technology-Based Learning Environments. In: *Journal of Computing in Higher Education* 2 5 (1994) 3-32
- JACQUES, R./NONNECKE, B. ET AL.: Current Designs in HyperCard: What Can We Learn? In: *Journal of Educational Multimedia and Hypermedia* 3 2 (1993) 219-237
- JANDA, K.: Multimedia in Political Science: Sobering Lessons from a Teaching Experiment. In: *Journal of Educational Multimedia and Hypermedia* 3 1 (1992) 341-354
- JASPERS, F.: Interactivity or Instruction? A Reaction to Merrill. In: *Educational Technology* 3 31 (1991) 21-24
- JIH, H.J./REEVES, T.C.: Mental Models: A Research Focus for Interactive Learning Systems. In: *Educational Technology, Research and Development* 3 40 (1992) 39-53
- JOHNSON, D.W./JOHNSON, R.T.: Computer-Assisted Cooperative Learning. In: *Educational Technology* 1 26 (1986) 12-18
- JOHNSON, L.W./SOLOWAY, E.: PROUST: An Automatic Debugger for Pascal Programs (Nachdruck des Artikels aus Byte, April 1985). In: Kearsley, G.P. (ed): *Artificial Intelligence and Instruction*. Reading, MA. u.a.: Addison-Wesley (1987) 49-67
- JOHNSON-LAIRD, P.N.: *Mental Models*. Cambridge: Cambridge University Press 1983
- JOHNSTON, V.M.: Attitudes towards Microcomputers in Learning: II. Teachers and Software for Language Development. In: *Educational Research* 2 29 (1987) 137-14
- JOLICOEUR, K./BERGER, D.: Do We Really Know What Makes Educational Software Effective? A Call for Empirical Research. In: *Educational Technology* 12 26 (1986) 7-11
- JONASSEN, D.H.: Interactive Lesson Designs: A Taxonomy. In: *Educational Technology* 6 25 (1985) 7-17
- JONASSEN, D.H.: Hypertext Principles for Text and Courseware Design. In: *Educational Psychologist* 4 21 (1986) 269-292
- JONASSEN, D.H. (ed): *Instructional Designs for Microcomputer Courseware*. Hillsdale, NJ u.a.: Lawrence Erlbaum Ass. 1988a
- JONASSEN, D.H.: Integrating Learning Strategies into Courseware to Facilitate Deeper Processing. In: Jonas-

- sen, D.H. (ed): *Instructional Designs for Microcomputer Courseware*. Hillsdale, NJ u.a.: Lawrence Erlbaum Ass. (1988b) 151-181
- JONASSEN, D.H.: *Hypertext/Hypermedia*. Englewood Cliffs, NJ: Educational Technology Publications 1989
- JONASSEN, D.H.: Evaluating Constructivistic Learning. In: *Educational Technology* 9 31 (1991) 28-33
- JONASSEN, D.H.: Evaluating Constructivistic Learning. In: Duffy, T.M./Jonassen, D.H. (eds): *Constructivism and the Technology of Instruction: A Conversation*. Hillsdale, NJ u.a.: Lawrence Erlbaum Ass. (1992) 137-148
- JONASSEN, D.H.: Adding Intelligence to Hypertext with Expert Systems and Adding Usability to Expert Systems with Hypertext. In: Oliveira, A. (ed): *Hypermedia Courseware: Structures of Communication and Intelligent Help* (NATO ASI Series. Series F: Computer and Systems Sciences; 92) Berlin/Heidelberg: Springer (1992a) 188-197
- JONASSEN, D.H.: Designing Hypertext for Learning. In: Scanlon, E./O'Shea, T. (eds): *New Directions in Educational Technology* (NATO ASI Series. Series F: Computer and Systems Sciences; 96) Berlin/Heidelberg: Springer (1992b) 123-130
- JONASSEN, D.H.: Cognitive Flexibility Theory and its Implications for Designing CBI. In: Dijkstra, S./Krammer, H.P.M./van Merriënboer, J.J.G. (eds): *Instructional Models in Computer-Based Learning Environments* (NATO ASI Series. Series F: Computer and Systems Sciences; 104) Berlin/Heidelberg: Springer (1992c) 385-403
- JONASSEN, D.H.: Effects of Semantically Structured Hypertext Knowledge Bases on User's Knowledge Structures. In: McKnight, C./Dillon, A./Richardson, J. (eds): *Hypertext: A Psychological Perspective*. Chichester, England: Ellis Horwood (1992d) 153-168
- JONASSEN, D.H.: Effects of Building Expert System Rule Bases on Cognitive Structures. In: Troutner, H. (ed): *Proceedings of the 34th Annual International Conference of the Association for the Development of Computer-Based Instructional Systems*. Norfork, VA (1992e) 499-507
- JONASSEN, D.H.: Conceptual Frontiers in Hypermedia Environments for Learning. In: *Journal of Educational Multimedia and Hypermedia* 4 2 (1993) 331-335
- JONASSEN, D.H./BEISSNER, K./YACCI, M.: *Structural Knowledge: Techniques for Representing, Conveying and Acquiring Structural Knowledge*. Hillsdale, NJ u.a.: Lawrence Erlbaum Ass. 1993
- JONASSEN, D.H./GRABINGER, R.S.: Problems and Issues in Designing Hypertext/Hypermedia for Learning. In: Jonassen, D.H./Mandl, H. (eds): *Designing Hypermedia for Learning* (NATO ASI Series. Series F: Computer and Systems Sciences; 67) Berlin/Heidelberg: Springer (1990) 3-25
- JONASSEN, D.H./MANDL, H. (eds): *Designing Hypermedia for Learning* (NATO ASI Series. Series F: Computer and Systems Sciences; 67) Berlin/Heidelberg: Springer 1990
- JONASSEN, D.H./MAYES, J.T./MCALEESE, R.: A Manifesto for a Constructivist Approach to Uses of Technology in Higher Education. In: Duffy, T.M./Lowyck, J./Jonassen, D.H. (eds): *Designing Environments for Constructive Learning* (NATO ASI Series. Series F: Computer and Systems Sciences; 105) Berlin/Heidelberg: Springer (1993) 231-247
- JONASSEN, D.H./WANG, S.: Acquiring Structural Knowledge from Semantically Structured Hypertext. In: *Proceedings of Selected Research and Development Presentations at the Convention of the Association for Educational Communications and Technology* (1992) 1-13
- JONASSEN, D.H./WANG, S.: The Physics Tutor: Integrating Hypertext and Expert Systems. In: *Journal of Educational Technology Systems* 1 22 (1994) 19-28
- JONES, B.F./KNUTH, R.A./DUFFY, T.M.: Components of Constructivist Learning Environments for Professional Development. In: Duffy, T.M./Lowyck, J./Jonassen, D.H. (eds): *Designing Environments for Constructive Learning* (NATO ASI Series. Series F: Computer and Systems Sciences; 105) Berlin/Heidelberg: Springer (1993)
- JONES, B.T./McCORMAC, K.: Empirical Evidence Shows that Measuring Users' Opinions is not a Satisfactory Way of Evaluating Computer-assisted Learning in Nurse Education. In: *International Journal of Nursing Studies* 4 29 (1992) 411-425
- JONES, M.: Instructional Systems Need Instructional Theory: Comments on a Truism. In: Scanlon, E./O'Shea, T. (eds): *New Directions in Educational Technology* (NATO ASI Series. Series F: Computer and Systems Sciences; 96) Berlin/Heidelberg: Springer (1992) 1-13

- JONES, M./LI, Z./MERRILL, M.D.: Domain Knowledge Representation for Instructional Analysis. In: Educational Technology 10 30 (1990)
- JONES, T.: Incidental Learning During Information Retrieval: A Hypertext Experiment. In: Maurer, H. (ed): Computer Assisted Learning. Proceedings 2 Int. Conf. ICCAL (Lecture Notes in Computer Science; 360) Berlin/Heidelberg: Springer (1989)
- JORDAN, D.S./RUSSELL, D.M. ET AL: Facilitating the Development of Representations in Hypertext with IDE. In: Proceedings of the ACM Hypertext '89 Conference (Pittsburgh, PA, November 5-8, 1989) New York: ACM (1989) 93-104
- JÜNGST, K.L.: Studien zur didaktischen Nutzung von Concept Maps. In: Unterrichtswissenschaft 3.VJ 1995 (1995) 229-250
- JÜNGST, K.L./STRITTMATTER, P.: Wissensstrukturdarstellung: Theoretische Ansätze und praktische Relevanz. In: Unterrichtswissenschaft 3.VJ 1995 (1995) 194-207
- KAHN, P.: Webs, Trees, and Stacks: How Hypermedia System Design Effect Hypermedia Content. In: Salvendy, G./Smith, M.J. (eds): Designing and Using Human-Computer Interfaces and Knowledge Based Systems. Elsevier (1989) 443-449
- KAHN, P./LANDOW, G. P.: The Pleasures of Possibilities: What is Disorientation in Hypertext? In: Journal of Computing in Higher Education 2 4 (1992) 57-78
- KAHN, P./PIETERS, R./LANDOW, G. P.: Three Fundamental Elements of Visual Rhetoric in Hypertext. In: Schuler, W./Hannemann, J./Streitz, N.A. (eds): Designing User Interfaces for Hypermedia. (Research Reports ESPRIT) Berlin/Heidelberg: Springer (1995) 167-178
- KAPPE, F.: Spezielle Eigenschaften großer Hypermedia-Systeme. In: Maurer, H. (ed): Hypertext/Hypermedia '91 (Tagung der GI, SI und OCG, Graz, Mai 1991) (Informatik-Fachberichte; 276) Berlin/Heidelberg: Springer (1991) 164-173
- KARAKE, Z.A.: Enhancing the Learning Process with Expert Systems. In: Computers and Education 6 15 (1990) 495-503
- KASS, R.: Student Modeling in Intelligent Tutoring Systems – Implications for User Modeling. In: Kobsa, A./Wahlster, A. (eds): User Models in Dialog Systems (Symbolic Computation. Artificial Intelligence) Berlin/Heidelberg: Springer (1989) 386-410
- KATZ, A./OCHS, J.: Profiling Student Activities with the Smithtown Discovery World Program. In: Social Science Computer Review 3 11 (1993) 366-378
- KAY, A.C.: Computers, Networks and Education. In: Scientific American. Special Issue 3 265 (1991) 100-107
- KAY, A.C./GOLDBERG, A.: Personal Dynamic Media. In: IEEE Computer 3 10 (1977) 31-41
- KAY, A.C./GOLDBERG, A.: Personal Dynamic Media. Reprint aus: Computer 10, März 1977, 31-41. In: Goldberg, A. (ed): A History of Personal Workstations. Reading, MA. u.a.: Addison-Wesley (1988) 254-263
- KEARSLEY, G.P. (ed): Artificial Intelligence and Instruction. Reading, MA. u.a.: Addison-Wesley 1987
- KEARSLEY, G.P.: Intelligent Agents and Instructional Systems: Implications of a New Paradigm. In: Journal of Artificial Intelligence in Education 4 4 (1993) 295-304
- KEARSLEY, G.P./FROST, J.: Design Factors for Successful Videodisc-Based Instruction. In: Educational Technology 3 25 (1985) 7-13
- KEARSLEY, G.P./HUNTER, B./SEIDEL, R.J.: Two Decades of Computer Based Instruction Projects: What have We Learned? Part 1. In: T.H.E. Journal Januar (1983a) 90-94
- KEARSLEY, G.P./HUNTER, B./SEIDEL, R.J.: Two Decades of Computer Based Instruction Projects: What Have We Learned? Part 2. In: T.H.E. Journal. February (1983b) 88-96
- KELLER, J.M.: Motivational Design of Instruction. In: Reigluth, C.M. (ed): Instructional Design Theories and Models: An Overview of their Current Status. Hillsdale, NJ u.a.: Lawrence Erlbaum Ass. (1983) 383-434
- KELLEY, W.P., JR.: GPO's Vision for Access to Government Information in the Electronic Age. In: Electronic Networking: Research, Applications and Policy 2 2 (1992) 50-55
- KENNY, R.F.: The Generative Effects of Graphic Organizers with Computer-Based Interactive Video by Global and Analytic Thinkers. 1991 (ED341378; IRO15378 Report)
- KIBBY, M.R./MAYES, J.T.: Towards Intelligent Hypertext. In: McAleese, R. (ed): Hypertext: Theory into Practice

- tice. Oxford: Blackwell (1993) 138-144
- KINTSCH, W./VAN DUUK, T.A.: Toward a Model of Text Comprehension and Production. In: *Psychological Review* 85 (1978) 828-834
- KINTSCH, W.: A Theory of Discourse Comprehension. In: Carretero, M. et al (eds): *Learning and Instruction: European Research in an International Context*. Vol. 3. Oxford: Pergamon Press (1991) 235-253
- KINZIE, M.B.: The Effects of an Interactive Dissection Simulation on the Performance and Achievement of High School Biology Students. In: *Proceedings of Selected Research and Development Presentations at the Convention of the Association for Educational Communications and Technology* (15th, New Orleans, Louisiana, January 13-17, 1993) New Orleans (1993) 17pp.
- KINZIE, M.B./FOSS, M.J./POWERS, S.M.: Use of Dissection-Related Courseware by Low-Ability High School Students: A Qualitative Inquiry. In: *Educational Technology, Research and Development* 34 (1993) 87-101
- KINZIE, M.B./STRAUSS, R.T./FOSS, M.J.: The Effects of an Interactive Dissection Simulation on the Performance and Achievement of High School Students. In: *Journal of Research in Science Teaching* 8 30 (1993) 989-1000
- KINZIE, M.B./SULLIVAN, H.J./BERDEL, R.L.: Motivational and Achievement Effects of Learner Control over Content Review within CAI. In: *Journal of Educational Computing Research* 14 (1992) 101-114
- KLAHR, D./DUNBAR, K.: Dual Space Search During Scientific Discovery. In: *Cognitive Science* 12 (1988) 1-48
- KLAR, R.: Hypertext und Expertensysteme. Protokoll. In: Glowalla, U./Schoop, E. (eds): *Hypertext und Multimedia. Neue Wege in der computerunterstützten Aus- und Weiterbildung*. Berlin/Heidelberg: Springer (1992) 43-44
- KLAR, R./SCHRADER, U./ZAIK, A.W.: Textanalyse in medizinischer Software. In: Glowalla, U./Schoop, E. (eds): *Hypertext und Multimedia. Neue Wege in der computerunterstützten Aus- und Weiterbildung*. Berlin/Heidelberg: Springer (1992) 98-207
- KNIERIEMEN, T.: Rechneraufbau am konkreten Beispiel. Dargestellt anhand der Macintosh II-Modellreihe. Braunschweig/Wiesbaden: Vieweg 1989
- KNUSEN, C.L.: An Approach to the Evaluation of Hypermedia. In: *Computers and Education* 16 (1991) 13-24
- KNUTH, R.A./CUNNINGHAM, D.J.: Tools for Constructivism. In: Duffy, T.M./Lowyck, J./Jonassen, D.H. (eds): *Designing Environments for Constructive Learning* (NATO ASI Series. Series F: Computer and Systems Sciences; 105) Berlin/Heidelberg: Springer (1993) 163-188
- KOBSA, A.: Benutzermodellierung in Dialogsystemen. (*Informatik-Fachberichte: Künstliche Intelligenz*; 115) Berlin/Heidelberg: Springer 1985
- KOBSA, A./WAHLSTÜR, A. (eds): *User Models in Dialog Systems. (Symbolic Computation, Artificial Intelligence)* Berlin/Heidelberg: Springer 1989
- KOEGEL, BUFORD, J.F. (ed): *Multimedia Systems*. Reading, MA. u.a.: Addison-Wesley 1994a
- KOEGEL, BUFORD, J.F.: Architectures and Issues for Distributed Multimedia Systems. In: Koegel Buford, J.F. (ed): *Multimedia Systems*. Reading, MA. u.a.: Addison-Wesley (1994c) 45-64
- KOMMERS, P.A.M./DE VRIES, S.A.: TextVision and the Visualisation of Knowledge: School-based Evaluation of its Acceptance at two Levels of Schooling. In: Kommers, P.A.M./Jonassen, D.H./Mayes, J.T. (eds): *Cognitive Tools for Learning* (NATO ASI Series. Series F: Computer and Systems Sciences; 81) Berlin/Heidelberg: Springer (1992) 33-61
- KOMMERS, P.A.M./JONASSEN, D.H./MAYES, J.T. (eds): *Cognitive Tools for Learning* (NATO ASI Series. Series F: Computer and Systems Sciences; 81) Berlin/Heidelberg: Springer 1992
- KONRAD, R./KOLLIEN, S.: „Vorstellung-Wahn-Traum-Paranoia“. Probleme und Lösungsversuche in der empirischen Gebärdensprachlexikographie am Beispiel des Fachgebärdenlexikons Psychologie. In: *Das Zeichen* 10 35 (1996) 74-86
- KORNBROT, D./MACLEOD, M.: Monitoring and Analysis of Hypermedia Navigation. In: Diaper, D. (ed): *Human-Computer Interaction – INTERACT '90*. Amsterdam: North-Holland (1990) 401-406
- KOVÉD, I./SINEIDERMAN, B.: Embedded Menus: Selecting Items in Context. In: *Communications of the ACM* 29 (1986) 312-318

- KOZMA, R.B.: The Implications of Cognitive Psychology for Computer-Based Learning Tools. In: *Educational Technology* 11/27 (1987) 20-25
- KOZMA, R.B.: Learning with Media. In: *Review of Educational Research* 2/61 (1991) 179-211
- KOZMA, R.B.: Constructing Knowledge with Learning Tool. In: Klemmer, P.A.M./Jonassen, D.H./Mayes, J.T. (eds): *Cognitive Tools for Learning* (NATO ASI Series. Series F: Computer and Systems Sciences; 81) Berlin/Heidelberg: Springer (1992) 23-32
- KRAMER, D.: Computer Center. Interactive Biology with Videodisc. In: *American Biology Teacher* 3/53 (1991) 185-188
- KRAUSS, F.S./MIDDENDORF, K.A./WILLITS, L.S.: A Comparative Investigation of Hardcopy vs. Online Documentation. In: *Proceedings of the Human Factors Society 35th Annual Meeting*. (1991) 350-353
- KREITZBERG, C.B.: Details on Demand: Hypertext Models for Coping with Information Overload. In: Dillon, M. (ed): *Interfaces for Information Retrieval and Online Systems: The State of the Art*. New York: Greenwood Press (1991) 169-176
- KREITZBERG, C.B./SHNEIDERMAN, B. (EDS): Restructuring Knowledge for an Electronic Encyclopedia. In: *Proceedings of the International Ergonomics Association's 10th Congress*, Sidney, Australia. (1988)
- KRENDEL, K.A.: Assessing New Instructional Technologies: Interactive Video Learning Tools. In: *Spectrum* 3/4 (1986) 3-7 [Educational Research Service, Inc., 1800 North Kent Street, Arlington, VA 22209]
- KRENDEL, K.A./BROHIER, M.: Student Responses to Computers: A Longitudinal Study. In: *Journal of Educational Computing Research* 2/8 (1992) 215-227
- KRENDEL, K.A./LIEBERMAN, D.A.: Computers and Learning: A Review of Recent Research. In: *Journal of Educational Computing Research* 4/4 (1988) 367-389
- KUHLEN, R.: Hypertext. Ein nicht-lineares Medium zwischen Buch und Wissenschaft. Berlin/Heidelberg: Springer 1991
- KUHN, A.D.: Quo Vadimus? The 21st Century and Multimedia. National Aeronautics and Space Administration, Washington, DC. Scientific and Technical Information Branch. Washington 1991 - Report
- KUHN, K./RÖSNER, D. ET AL.: Ein elektronisches Tutorsystem zur Aus- und Weiterbildung für die medizinische Ultraschalluntersuchung. In: Glowalla, U./Schoop, E. (eds): *Hypertext und Multimedia. Neue Wege in der computerunterstützten Aus- und Weiterbildung*. Berlin/Heidelberg: Springer (1992) 207-215
- KULIK, C.-L.C./KULIK, J.A.: Effectiveness of Computer-Based Instruction: An Updated Analysis. In: *Computers in Human Behavior* 7 (1991) 75-94
- KULIK, J.A./BANGERT, R.L./WILLIAMS, G.W.: Effects of Computer-Based Teaching on Secondary School Students. In: *Journal of Educational Psychology* 7/75 (1983) 19-26
- KULIK, J.A./KULIK, C.-L.C./COHEN, P.A.: A Meta-Analysis of Outcome Studies of Keller's Personalized System of Instruction. In: *American Psychologist* 38 (1979) 307-318
- KULIK, J.A./KULIK, C.-L.C./COHEN, P.A.: Effectiveness of Computer-based College Training: A Meta-Analysis of Findings. In: *Review of Educational Research* 4/50 (1980) 525-544
- KULIK, J.A./KULIK, C.-L.C./BANGERT, R.L.: The Importance of Outcome Studies: A Reply to Clark. In: *Journal of Educational Computing Research* 4/1 (1985) 381-387
- KULIK, J.A./KULIK, C.-L.C.: Meta-analysis in Education. In: *International Journal of Educational Research* 13 (1989) 221-340
- KURTENBACH, G./HULTEIN, F.A.: Gestures in Human-Computer Communication. In: Laurel, B. (ed): *The Art of Human-Computer Interface Design*. Reading, MA. u.a.: Addison-Wesley (1990) 309-317
- KURUP, M./GREER, J.E./MC CALLA, G.I.: The Fawly Article Tutor. In: Frasson, C./Gauthier, G./Mc Calla, G.I. (eds): *Intelligent Tutoring Systems. Second International Conference ITS '92 (Lecture Notes in Computer Science; 608)* Berlin/Heidelberg: Springer (1992) 84-91
- LA FOLLETTE, J.J.: Interactivity and Multimedia Instruction: Crucial Attributes for Design and Instruction. In: *Proceedings of Selected Research and Development Presentations at the Convention of the Association for Educational Communications and Technology* (15th, New Orleans, Louisiana, January 13-17, 1993). New Orleans (1993) 597-612
- LAIRD, J./ROSHNBLOOM, P./NEWELL, A.: Chunking in SOAR: The Anatomy of a General Learning Mechanism. In: *Machine Learning* 1 (1986) 11-46

- LAJOIE, S.P./LESGOLD, A.M.: Apprenticeship training in the workplace: Computer-coached practice environment as a new form of apprenticeship. In: Farr, M.J./Psotka, J. (eds): *Intelligent Instruction by Computer: Theory and Practice*. Philadelphia, PA: Taylor & Francis (1992) 15-36
- LAKOFF, G.: *Women, Fire, and Dangerous Things: What Categories Reveal about the Mind*. Chicago, IL.: University of Chicago Press 1987
- LAKOFF, G./JOHNSON, M.: *Metaphors We Live By*. Chicago, IL.: University of Chicago Press 1980
- LAMONTAGNE, C./BOURDEAU, J.: Towards an Epistemology for Guided Discovery Tutoring: The Popperian Connection. In: Frasson, C./Gauthier, G./McCalla, G.I. (eds): *Intelligent Tutoring Systems. Second International Conference ITS '92 (Lecture Notes in Computer Science; 608)* Berlin/Heidelberg: Springer (1992) 92-102
- LANDA, L.N.: Descriptive and Prescriptive Theories of Learning and Instruction: An Analysis of their Relationships and Interactions. In: Reigeluth, C.M. (ed): *Instructional Design Theories and Models: An Overview of their Current Status*. Hillsdale, NJ u.a.: Lawrence Erlbaum Ass. (1983) 55-69
- LANDA, L.N.: The Algo-Heuristic Theory of Instruction. In: Reigeluth, C.M. (ed): *Instructional Design Theories and Models: An Overview of their Current Status*. Hillsdale, NJ u.a.: Lawrence Erlbaum Ass. (1983) 163-211
- LANDAUER, T.K.: Let's Get Real: A Position Paper on the Role of Cognitive Psychology in the Design of Humanly Useful and Usable Systems. In: Carroll, J.M. (ed): *Designing Interaction: Psychology at the Human-Computer Interface*. Cambridge: Cambridge University Press (1991) 60-73
- LANDAUER, T.K./EGAN, D.E. ET AL: Enhancing the Usability of Text Through Computer Delivery and Formative Evaluation: The SuperBook Project. In: McKnight, C./Dillon, A./Richardson, J. (eds): *Hypertext: A Psychological Perspective*. Chichester, England: Ellis Horwood (1992) 71-136
- LANDOW, G. P.: The Rhethoric of Hypertext: Some Rules for Authors. In: *Journal of Computing in Higher Education* 1 1 (1989a) 39-64
- LANDOW, G. P.: Course Assignments Using Hypertext: The Example of Intermedia. In: *Journal of Research on Computing in Education* 3 21 (1989b) 349-363
- LANDOW, G. P.: Popular Fallacies about Hypertext. In: Jonassen, D.H./Mandl, H. (eds): *Designing Hypermedia for Learning (NATO ASI Series. Series F: Computer and Systems Sciences; 67)* Berlin/Heidelberg: Springer (1990) 39-59
- LANDOW, G. P.: Bootstrapping Hypertext: Student-created Documents, Intermedia, and the Social Construction of Knowledge. In: Barrett, E. (ed): *Sociomedia: Multimedia, Hypermedia, and the Social Construction of Knowledge. Technical Communication and Information Systems*. Cambridge/London: M.I.T. Press (1992b) 197-217
- LANDOW, G. P.: *Hypertext. The Convergence of Contemporary Critical Theory and Technology*. Baltimore/London: John Hopkins University Press 1992c
- LANDOW, G. P./DELANY, P.: Hypertext, Hypermedia and Literary Studies: the State of the Art. In: Delany, P./Landow, G. P. (eds): *Hypermedia and Literary Studies*. Cambridge/London: M.I.T. Press (1991) 3-50
- LANDOW, G. P./KAHN, P.: Where's the Hypertext? The Dickens Web as a System-Independent Hypertext. In: Lucarella, D./Nanard, J. et al (eds): *Proceedings of the 4th ACM ECIS '92 Conference on Hypertext (Milano, Italy, November 30-December 4, 1992)*. New York: ACM (1992) 149-160
- LANGLEY, P.: A General Theory of Discrimination Learning. In: Klahr, D./Langley, P./Neches, R. (eds): *Production System Models of Learning and Development*. Cambridge/London: M.I.T. Press (1987) 99-162
- LANGLEY, P./SIMON, H.A. ET AL: Scientific Discovery. Computational Explorations of the Creative Processes. Cambridge/London: M.I.T. Press 1987
- LARKIN, J.H./CHABAY, R.W.: Research on Teaching Scientific Thinking: Implications for Computer-Based Instruction. In: Resnick, L.B./Klopfer, L.E. (eds): *Toward the Thinking Curriculum: Current Cognitive Research*. Alexandria, VA: ASCD (1989) 150-172
- LAUNHARDT, J./KAHN, P.: The Educational Uses of Intermedia. In: *Journal of Computing in Higher Education* 1 4 (1992) 50-87
- LAUREL, B.: A Taxonomy of Interactive Movies. In: *Boston Society New Media News* 1 3 (1989) 5-8
- LAUREL, B.: Interface Agents: Metaphors with Characters. In: Laurel, B. (ed): *The Art of Human-Computer Interface Design*. Reading, MA. u.a.: Addison-Wesley (1990) 355-365

- LAUREL, B.: Computers as Theatre. Reading, MA. u.a.: Addison-Wesley 1991
- LAURILLARD, D.: The Processes of Student Learning. In: Higher Education 8 (1979) 395-409
- LAURILLARD, D.: Computers and the Emancipation of Students: Giving Control to the Learner. In: Instructional Science 16 (1987) 3-18
- LAVE, J.: Cognition in Practice. Mind, Mathematics and Culture in Everyday Life. Cambridge: Cambridge University Press 1988
- LAVE, J./WENGER, E.: Situated Learning: Legitimate Peripheral Participation. Cambridge: Cambridge University Press 1991
- LEE, S.S./WONG, C-H.: Adaptive Program vs. Learner Control Strategy on Computer Aided Learning of Gravimetric Stoichiometry Problems. In: Journal of Research on Computing in Education 4 21 (1989) 367-379
- LEE, Y.B./LEHMAN, J.D.: Instructional Cuing in Hypermedia: A Study with Active and Passive Learners. In: Journal of Educational Multimedia and Hypermedia 1 2 (1993) 25-37
- LEGGET, J.J./SCHNASE, J.L./KACMAR, C.J.: Hypertext for Learning. In: Jonassen, D.H./Mandl, H. (eds): Designing Hypermedia for Learning (NATO ASI Series. Series F: Computer and Systems Sciences; 67) Berlin/Heidelberg: Springer (1990) 27-37
- LEIBLIUM, M.D.: A Decade of CAL at a Dutch University. In: Computers and Education 1 10 (1986) 229-243
- LEMKE, J.-L.: Intertextuality and Educational Research. In: Linguistics and Education 3-4 4 (1992) 257-267
- LENNON, J./MAURER, H.: Lecturing Technology: A Future with Hypermedia. In: Educational Technology 4 34 (1994) 5-14
- LEONARD, W.H.: A Comparison of Student Performance Following Instruction by Interactive Videodisc Versus Conventional Laboratory. In: Journal of Research in Science Teaching 1 29 (1992) 93-102
- LEONG, C.K.: Text-to-Speech, Text, and Hypertext: Reading and Spelling with the Computer. In: Reading and Writing: An Interdisciplinary Journal 2 4 (1992) 95-105
- LEPPER, M.R./CHABAY, R.W.: Socializing the Intelligent Tutor: Bringing Empathy to Computer Tutors. In: Mandl, H./Lesgold, A.M. (eds): Learning Issues for Intelligent Tutoring Systems. Berlin/Heidelberg: Springer (1988) 242-257
- LESGOLD, A.M.: Intelligenter computerunterstützter Unterricht. In: Mandl, H./Spada, H. (eds): Wissenspsychologie. München: Psychologie Verlags Union (PVU) (1988) 554-569
- LESGOLD, A.M.: Tying Development of Intelligent Tutors to Research on Theories of Learning. In: Mandl, H./De Corte, E. et al (eds): Learning and Instruction. European Research in an International Context. Vol. 2.I: Social and cognitive aspects of learning and instruction. Oxford: Pergamon Press (1990) 321-337
- LESGOLD, A.M./KATZ, S. ET AL: Extensions of Intelligent Tutoring Paradigms to Support Collaborative Learning. In: Dijkstra, S./Krammer, H.P.M./van Merriënboer, J.J.G. (eds): Instructional Models in Computer-Based Learning Environments (NATO ASI Series. Series F: Computer and Systems Sciences; 104) Berlin/Heidelberg: Springer (1992) 291-311
- LEVIN, J./REIL, M.M. ET AL: Muktuk Meets Jacuzzi: Computer Networks and Elementary School Writers. In: Freedman, S.W. (ed): The Acquisition of Written Language: Revision and Response. Norwood, NJ: Ablex Publishing (1985) 60-71
- LEVIN, L.: The ALICE System: A Workbench for Learning and Using Language. In: CALICO Journal 1 9 (1991) 27-54
- LEWIN, K./HEUBLEIN, U. ET AL: Bestandsaufnahme zur Organisation medienunterstützter Lehre an Hochschulen. In: HIS Kurzinformation A7/96. HIS: Hannover 1996a
- LEWIN, K./HEUBLEIN, U. ET AL: Medienunterstützte Lehre an Hochschulen - Fallstudien. In: HIS Kurzinformation A9/96. HIS: Hannover 1996b
- LEWIS, E.R./STERN, J.L./LINN, M.C.: The Effect of Computer Simulations on Introductory Thermodynamics Understanding. In: Educational Technology 1 33 (1993) 45-58
- LI, Z./MERRILL, M.D.: Transaction Shells: A New Approach to Courseware Authoring. In: Journal of Research on Computing in Education 1 23 (1990) 72-86
- LINN, M.C.: Perspectives of Research in Science Teaching: Using the Computer as Laboratory Partner. In: Mandl, H./De Corte, E. et al (eds): Learning and Instruction. European Research in an International Con-

- text. Vol. 2.1: Social and cognitive aspects of learning and instruction. Oxford: Pergamon Press (1990) 443-460
- LINN, M.C./KATZ, M. ET AL: How Do Lisp Programmers Draw on Previous Experience to Solve Novel Problems? In: De Corte, E./Linn, M.C. et al (eds): Computer-Based Learning Environments and Problem Solving (NATO ASI Series F: Computer and Systems Sciences; 84) Berlin/Heidelberg: Springer (1992) 67-102
- LIPPERT, R.C.: Expert Systems: Tutors, Tools and Tutees. In: Journal of Computer-Based Instruction 1 16 (1989) 11-19
- LITTLEFORD, A.: Artificial Intelligence and Hypermedia. In: Berk, E./Devlin, J. (eds): Hypertext/Hypermedia Handbook. New York: McGraw-Hill (1991) 357-378
- LITTMAN, D.C./SOLOWAY, E.: Evaluating ITSs: The Cognitive Perspective. In: Polson, M.C./Richardson, J./Soloway, E. (eds): Foundations of Intelligent Tutoring Systems. Hillsdale, NJ u.a.: Lawrence Erlbaum Ass. (1988) 209-242
- LOCATIS, C./PARK, OK-CHOON: Some Uneasy Inquiries Into ID Expert Systems. In: Educational Technology, Research and Development 3 40 (1992) 87-94
- LOOI,CHEE-KIT ET AL: Study of Button Theory in Structuring Human-Computer Interaction in a Multimedia System. In: Educational Multimedia and Hypermedia. Proceedings of ED-MEDIA 94-World Conference on Educational Multimedia and Hypermedia (Vancouver, British Columbia, Canada, June 25-30, 1994)
- LOWYCK, J./ELEN, J.: Hypermedia for Learning Cognitive Instructional Design. In: Oliveira, A. (ed): Hypermedia Courseware: Structures of Communication and Intelligent Help (NATO ASI Series. Series F: Computer and Systems Sciences; 92) Berlin/Heidelberg: Springer (1992) 131-144
- LOWYCK, J./ELEN, J.: Transitions in the Theoretical Foundation of Instructional Design. In: Duffy, T.M./Lowyck, J./Jonassen, D.H. (eds): Designing Environments for Constructive Learning (NATO ASI Series. Series F: Computer and Systems Sciences; 105) Berlin/Heidelberg: Springer (1993) 213-229
- LUCARELLA, D./NANARD, J. ET AL (eds): Proceedings of the 4th ACM ECCHT '92 Conference on Hypertext (Milano, Italy, November 30-December 4, 1992) New York: ACM 1992
- LUCARILLA, D./ZANZI, A.: Information Retrieval from Hypertext: An Approach Using Plausible Inference. In: Information Processing and Management 3 29 (1993) 299-312
- LUCAS, L.: Interactivity: What Is It and How Do You Use It? In: Journal of Educational Multimedia and Hypermedia 1 (1992) 7-10
- Lumsdaine, A.A./Glaser, R. (eds): Teaching Machines and Programmed Learning. Vol. 1: A Source Book. Washington, D.C.: National Education Association 1960
- LUFF, P./GILBERT, N./FROHLICH, D. (eds): Computers and Conversation. London/New York u.a.: Academic Press 1990
- LUTHER, A.C.: You are there... and in Control. In: IEEE Spectrum 9 25 (1988) 45-50
- LUTHER, A.C.: Digital Video and Image Compression. In: Koegel Buford, J.F. (ed): Multimedia Systems. Reading, MA. u.a.: Addison-Wesley (1994) 143-174
- MACLEOD, M.: Tools for Monitoring and Analysing the Use of Hypermedia Courseware. In: Oliveira, A. (ed): Hypermedia Courseware: Structures of Communication and Intelligent Help (NATO ASI Series. Series F: Computer and Systems Sciences; 92) Berlin/Heidelberg: Springer (1992) 19-33
- MAGIN, D.J./REIZES, J.A.: Computer Simulation of Laboratory Experiments: An Unrealized Potential. In: Computers and Education 3 14 (1990) 263-270
- MALAKOFF, G./PINCEL, P.S. ET AL: Computer-based Patient Simulations and their Effect on Standardized-Test Scores During a Medicine Clerkship. In: Academic Medicine 2 69 (1994) 155
- MANDL, H./BOLLWAHN, J. ET AL: A Conceptual Overview on »SUOMO«. An Intelligent Learning Environment in the Physical Domain of Superposition of Motion. In: Mandl, H./De Corte, E. et al (eds): Learning and Instruction. European Research in an International Context. Vol. 2.1: Social and cognitive aspects of learning and instruction. Oxford: Pergamon Press (1990) 339-347
- MANDL, H./GRUBER, H./RENKL, A.: Neue Lernkonzepte für die Hochschule. In: Das Hochschulwesen 3 41 (1993) 126-130
- MANDL, H./HRON, A.: Lernen mit Intelligenten Tutoriellen Systemen. In: Landesinstitut für Schule und Weiterbildung (ed): Neue Technologien und Zukunftsperspektiven des Lernens. Soest: Soester Verlagskontor

- (1990) 18-35
- MANDL, H./HUBER, G.L. (eds): Kognitive Komplexität, Bedeutung, Weiterentwicklung, Anwendung. Göttingen, Toronto, Zürich: Verlag für Psychologie Dr. C. J. Hogrefe 1978
- MANDL, H./LESGOLD, A.M. (eds): Learning Issues for Intelligent Tutoring Systems. Berlin/Heidelberg: Springer 1988
- MANDL, H./SCHNOTZ, W. ET AL.: Knowledge Acquisition with Texts by Means of Flexible Computer-Assisted Information Access. In: Oliveira, A. (ed): Hypermedia Courseware: Structures of Communication and Intelligent Help (NATO ASI Series, Series F: Computer and Systems Sciences; 92) Berlin/Heidelberg: Springer (1992) 70-76
- MANTEI, M.: A Study of Disorientation in ZOG.: University of Southern California 1982 Dissertation
- MARCHIONINI, G.: Making the Transition from Print to Electronic Encyclopedia. In: International Journal of Man-Machine Studies 6 30 (1989) 591-618
- MARCHIONINI, G./SHNEIDERMAN, B.: Finding Facts vs. Browsing Knowledge in Hypertext Systems. In: IEEE Computer 1 21 (1988) 70-80
- MARCOULIDES, G.A.: An Intelligent Computer Based Learning Program. In: Collegiate Microcomputer 2 6 (1988) 123-126
- MARRISON, D.L./FRICK, M.J.: The Effect of Agricultural Students' Learning Styles on Academic Achievement and Their Perceptions of Two Methods of Instruction. In: Journal of Agricultural Education 1 35 (1994) 26-30
- MARSHALL, C.C./HALASZ, F.G. ET AL.: Aquanet: A Hypertext Tool to Hold Your Knowledge in Place. In: Proceedings of the ACM Hypertext '91 Conference (San Antonio, TX, December 15-18, 1991). (1991) 261-275
- MARSHALL, C.C./IRISH, P.M.: Guided Tours and On-Line Presentations: How Authors Make Existing Hypertext Intelligible for Readers. In: Proceedings of the ACM Hypertext '89 Conference (Pittsburgh, PA, November 5-8, 1989) New York: ACM (1989) 15-26
- MARSHALL, C.C./ROGERS, R.A.: Two Years before the Mist: Experiences with Aquanet. In: Lucarella, D./Nanard, J. et al (eds): Proceedings of the 4th ACM ECHT '92 Conference on Hypertext (Milano, Italy, November 30-December 4, 1992) New York: ACM (1992) 53-62
- MARSHALL, C.C./SHIPMAN, F.M.: Searching for the Missing Link: Discovering Implicit Structure in Spatial Hypertext. In: Proceedings of the ACM Hypertext '93 Conference (1993) 217-230
- MARTIN, R.: Discis Books: Adventures in Learning. In: School Library Media Activities Monthly 10 8 (1992) 42-43
- MARTON, F.: Beyond Individual Differences. In: Educational Psychology 3/4 3 (1983) 289-304
- MARTON, F./HOUNSELL, D./ENTWISTLE, N. (eds): The Experience of Learning. Edinburgh: Scottish Academic Press 1984
- MARTON, F./SÄLJÖ, R.: On Qualitative Differences in Learning: I - Outcome and Process. In: British Journal of Educational Psychology 1 46 (1976a)
- MARTON, F./SÄLJÖ, R.: On Qualitative Differences in Learning: II - Outcome as Function of the Learner's Conception of the Task. In: British Journal of Educational Psychology 2 46 (1976b) 115-127
- MATURANA, H.R./VARELA, F.J.: Der Baum der Erkenntnis. Die biologischen Wurzeln des menschlichen Erkennens. Bern und München: Scherz Verlag 1987 [Original 1984]
- MAYBURY, M.T. (ed): Intelligent Multimedia Interfaces. Cambridge/London: M.I.T. Press 1993
- MAYER, R.E.: Teaching for Transfer of Problem-Solving Skills in Computer Programming. In: De Corte, E./Linn, M.C. et al (eds): Computer-Based Learning Environments and Problem Solving (NATO ASI Series, Series F: Computer and Systems Sciences; 84) Berlin/Heidelberg: Springer (1992) 193-206
- MAYES, J.T.: The 'M-Word': Multimedia Interfaces and Their Role in Interactive Learning Systems. In: Edwards, A.D.N./Holland, S. (eds): Multimedia Interface Design in Education. 2. Aufl. 1994 (NATO ASI Series, Series F: Computer and Systems Sciences; 76) Berlin/Heidelberg: Springer (1992a) 1-22
- MAYES, J.T.: Cognitive Tools: A Suitable Case for Learning. In: Kommers, P.A.M./Jonassen, D.H./Mayes, J.T. (eds): Cognitive Tools for Learning (NATO ASI Series, Series F: Computer and Systems Sciences; 81) Berlin/Heidelberg: Springer (1992b) 7-18

- MAYES, J.T./DOLPHIN, C./BERZAL, J.S.: Critical M4I Issues. Promise Esprit Project No. 2397, Deliverable 37 (PRO/7 und PRO/7/3) 1989 Report
- MAYES, J.T./DRAPER, S.W. ET AL.: Information Flow in a User Interface: The Effect of Experience and Context on the Recall of MacWrite Screens. In: Jones, D.M./Winder, R. (eds): People and Computers IV. (British Computer Society Conference Series; 4) Cambridge: Cambridge University Press (1988)
- MAYES, J.T./KIBBY, M.R./WATSON, H.: StrathTutor®: The Development and Evaluation of a Learning-by-Browsing System on the Macintosh. In: Computers and Education 12 (1988) 221-229
- MAYES, J.T./KIBBY, M.R./ANDERSON, T.: Learning About Learning from Hypertext. In: Jonassen, D.H./Mandl, H. (eds): Designing Hypermedia for Learning (NATO ASI Series. Series F: Computer and Systems Sciences; 67) Berlin/Heidelberg: Springer (1990) 227-250
- MAYO, E.: The Human Problem of an Industrial Civilization. New York: Macmillan Publishing Co. 1933
- MCALEESE, R. (ed): Hypertext: Theory into Practice. Oxford: Intellect Books 1989
- MCALEESE, R.: The Acquisition and Representation of Domain Specific Knowledge Using NoteCards. In: Oliveira, A. (ed): Hypermedia Courseware: Structures of Communication and Intelligent Help (NATO ASI Series. Series F: Computer and Systems Sciences; 92) Berlin/Heidelberg: Springer (1992) 11-18
- MCALEESE, R.: Navigation and Browsing in Hypertext. In: McAleese, R. (ed): Hypertext: Theory into Practice. Oxford: Blackwell (1993) 5-38
- MCCALLA, G.I.: Intelligent Tutoring Systems: Navigating the Rocky Road to Success. In: Scanlon, E./O'Shea, T. (eds): New Directions in Educational Technology (NATO ASI Series. Series F: Computer and Systems Sciences; 96) Berlin/Heidelberg: Springer (1992a) 107-122
- MCCALLA, G.I.: The Central Importance of Student Modelling to Intelligent Tutoring. In: Costa, E. (ed): New Directions for Intelligent Tutoring Systems (NATO ASI Series. Series F: Computer and Systems Sciences; 91) Berlin/Heidelberg: Springer (1992b) 107-131
- MCCALLA, G.I./WASSON, B.: Negotiated Tutoring Needs, Student-Modelling and Instructional Planning. In: Moyse, R./Elsom-Cook, M.T. (eds): Knowledge Negotiation. London: Academic Press (1992) 41-68
- MCLELLAND, J.L./RUMELHART, D.E. (eds): Parallel Distributed Processing. Explorations in the Microstructure of Cognition. Vol.2: Psychological and Biological Models. Cambridge/London: M.I.T. Press 1986
- MCCRACKEN, T.O./SPURGEON, T.L.: The Vesalius Project: Interactive Computers in Anatomical Instruction. In: Journal of Biocommunication 2 18 (1991) 40-44
- MCDERMOTT/HANNAFIN, K./MITZEL, H.E.: CBI Authoring in Postsecondary Institutions: A Review and Critical Examination. In: Computers and Education 3 14 (1990) 197-204
- MCILVENNY, P.: Communicative Action and Computers. Re-embodiment Conversation Analysis? In: Luff, P./Gilbert, N./Frohlich, D. (eds): Computers and Conversation. London/New York u.a.: Academic Press (1990) 91-132
- McKEACHIE, W.J.: Research on Teaching at the University and College Level. In: Gagné, R.M.: Handbook of Research on Teaching. 5.Aufl. Chicago (1967) 1118ff.
- MCKENZIE, M.W./KIMBERLIN, C.L. ET AL: Content, Preparation, and Formative Evaluation of an Interactive Videodisc System to Enhance Communication Skills in Pharmacy Students. In: American Journal of Pharmaceutical Education 3 57 (1993) 230-238
- MCKNIGHT, C./DILLON, A./RICHARDSON, J.: Problems in Hyperland? A Human Factors Perspective. In: Hypermedia 2 1 (1989) 167-178
- MCKNIGHT, C./DILLON, A./RICHARDSON, J.: Hypertext in Context. Cambridge: Cambridge University Press 1991
- MCKNIGHT, C./DILLON, A./RICHARDSON, J. (eds): Hypertext: A Psychological Perspective. Chichester, England: Ellis Horwood 1992
- MCLELLAN, H.: Hypertextual Tales: Story Models for Hypertext Design. In: Journal of Educational Multimedia and Hypermedia 3 2 (1993) 239-260
- MCMAHON, H./O'NEILL, W.: Computer-Mediated Zones of Engagement in Learning. In: Duffy, T.M./Lowyck, J./Jonassen, D.H. (eds): Designing Environments for Constructive Learning (NATO ASI Series. Series F: Computer and Systems Sciences; 105) Berlin/Heidelberg: Springer (1993) 37-57
- MCNEIL, B.J./NELSON, K.R.: Meta-Analysis of Interactive Video Instruction: A 10 Year Review of Achieve-

- ment Effects. In: *Journal of Computer-Based Instruction* 1 18 (1991)
- MCTEAR, M.F.: User Modelling for Adaptive Computer Systems: A Survey of Recent Developments. Special Issue: User Modelling. In: *Artificial Intelligence Review* 3-4 7 (1993) 157-184
- MEDYCKYJ-SCOTT, D.J./BLADES, M.: Cognitive Representations of Space in the Design and Use of Geographical Information Systems. In: Diaper, D./Hammond, N. (eds): *People and Computers VI. Proceedings of the HCI '91 Conference (British Computer Society Conference Series; 3)* Cambridge: Cambridge University Press (1991) 421-433
- MEGARRY, J.: Hypertext and Compact Discs: The Challenge of Multi-Media Learning. In: *British Journal of Educational Technology* 3 19 (1988) 172-183
- MELLAR, H.G./BLISS, J.: Expressing the Student's Concepts versus Exploring the Teacher's: Issues in the Design of Microworlds for Teaching. In: *Journal of Educational Computing Research* 1 9 (1993) 89-113
- MERRILL, M.D.: Learner Control in Computer Based Learning. In: *Computers and Education* 4 (1980) 77-95
- MERRILL, M.D.: Component Display Theory. In: Reigeluth, C.M. (ed): *Instructional Design Theories and Models: An Overview of their Current Status*. Hillsdale, NJ u.a.: Lawrence Erlbaum Ass. (1983) 279-333
- MERRILL, M.D.: The New Component Design Theory: Instructional Design for Courseware Authoring. In: *Instructional Science* 1 16 (1987a) 19-34
- MERRILL, M.D.: Prescriptions for an Authoring System. In: *Journal of Computer-Based Instruction* 1 14 (1987) 1-10
- MERRILL, M.D.: The Role of Tutorial and Experiential Models in Intelligent Tutoring Systems. In: *Educational Technology* 7 28 (1988a) 7-13
- MERRILL, M.D.: Applying Component Display Theory to the Design of Courseware. In: Jonassen, D.H. (ed): *Instructional Designs for Microcomputer Courseware*. Hillsdale, NJ u.a.: Lawrence Erlbaum Ass. (1988c) 61-95
- MERRILL, M.D.: Constructivism and Instructional Design. In: *Educational Technology* 5 31 (1991) 45-53
- MERRILL, M.D.: Constructivism and Instructional Design. In: Duffy, T.M./Jonassen, D.H. (eds): *Constructivism and the Technology of Instruction: A Conversation*. Hillsdale, NJ u.a.: Lawrence Erlbaum Ass. (1992) 99-114
- MERRILL, M.D./LI, Z.: An Instructional Design Expert System. In: *Journal of Computer-Based Instruction* 3 16 (1989) 95-101
- MERRILL, M.D./LI, Z./JONES, M.K.: Limitations of First Generation Instructional Design. In: *Educational Technology* 1 30 (1990a) 7-12
- MERRILL, M.D./LI, Z./JONES, M.K.: The Second Generation Instructional Design Research Program. In: *Educational Technology* 3 30 (1990b) 26-31
- MERRILL, M.D./LI, Z./JONES, M.K.: ID₂ and Constructivist Theory. In: *Educational Technology* 12 30 (1990c) 52-55
- MERRILL, M.D./LI, Z./JONES, M.K.: Instructional Transaction Theory: An Introduction. In: *Educational Technology* 6 31 (1991) 7-12
- MERRILL, M.D./LI, Z./JONES, M.K.: An Introduction to Instructional Transaction Theory. In: Dijkstra, S./Krammer, H.P.M./van Merriënboer, J.J.G. (eds): *Instructional Models in Computer-Based Learning Environments (NATO ASI Series. Series F: Computer and Systems Sciences; 104)* Berlin/Heidelberg: Springer (1992) 15-41
- MESKILL, C.: ESL and Multimedia: A Study of the Dynamics of Paired Student Discourse. In: *System* 3 21 (1993) 323-341
- MEURRENS, M.W.F.: G's Dynamic Learner Model. In: Dijkstra, S./Krammer, H.P.M./van Merriënboer, J.J.G. (eds): *Instructional Models in Computer-Based Learning Environments (NATO ASI Series. Series F: Computer and Systems Sciences; 104)* Berlin/Heidelberg: Springer (1992) 113-125
- MEVARECH, Z.R.: Who Benefits from Cooperative Computer-Assisted Instruction? In: *Journal of Educational Computing Research* 4 9 (1993) 451-464
- MEVARECH, Z.R./BEN-ARTZI, S.: Effects of CAI with Fixed and Adaptive Feedback on Children's Mathematics Anxiety and Achievement. In: *Journal of Experimental Education* 1 56 (1987) 42-46

- MEYER, H.L.: Einführung in die Curriculum-Methodologie. München: Kösel-Verlag 1972
- MEYROWITZ, N.: Intermedia: The Architecture and Construction of an Object-Oriented Hypermedia System and Applications Framework. In: Proceedings of the OOPSLA '86 Conf. Object-Oriented Programming Systems, Languages, and Applications. Portland, OR (1986) 186-201
- MICARELLI, A./BALESTRA, P.: Intelligent Systems in Education. In: Oliveira, A. (ed): Hypermedia Courseware: Structures of Communication and Intelligent Help (NATO ASI Series. Series F: Computer and Systems Sciences; 92) Berlin/Heidelberg: Springer (1992) 213-223
- MICHON, B.: Highly Iconic Interfaces. In: Blattner, M.M./Dannenberg, R.B. (eds): Multimedia Interface Design. Reading, MA, u.a.: Addison-Wesley (1992) 357-372
- MIDORO, V./OLIMPO, G. ET AL: Interactive Video and Artificial Intelligence: A Convenient Marriage. In: Programmed Learning and Educational Technology 4 25 (1988) 299-309
- MIDORO, V./OLIMPO, G. ET AL: Multimedia Navigable Systems and Artificial Intelligence. In: Lewis, R./Otsuki, (eds): Advanced Research on Computers in Education. Proceedings of the IFIP TC3 International Conference on Advanced Research on Computers in Education, Tokyo, Japan, 18-20 July, 1990. Amsterdam: North-Holland (1991) 179-184
- MILHEIM, W.D.: The Effects of Pacing and Sequence Control in an Interactive Video Lesson. In: Educational and Training Technology International 1 27 (1990) 7-19
- MILLER, R.S./OGBORN, J.M. ET AL: Towards a Tool to Support Semi-Quantitative Modelling. In: Lewis, R./Otsuki, (eds): Advanced Research on Computers in Education. Proceedings of the IFIP TC3 International Conference on Advanced Research on Computers in Education, Tokyo, Japan, 18-20 July, 1990. Amsterdam: North-Holland (1991) 185-190
- MILLER, S.W./JACKSON, R.A.: A Comparison of a Multi-Media Instructional Module with a Traditional Lecture Format for Geriatric Pharmacy Training. In: American Journal of Pharmaceutical Education 2 49 (1985) 173-176
- MILLS, C.B./WELDON, L.J.: Reading Text from Computer Screens. In: Computing Surveys 4 19 (1989) 329-358
- MIN, F.B.M.: Parallel Instruction: A Theory for Educational Computer Simulation. In: Interactive Learning International 3 8 (1992) 177-183
- MINSKY, M.: A Framework for Representing Knowledge. In: Haugeland, J. (ed): Mind Design. Bradford Books, The M.I.T. Press (1981) - S. 95-128
- MINSKY, M.: Ein Rahmen für die Wissensrepräsentation. In: Münch, D. (ed): Kognitionswissenschaft. Grundlagen, Probleme, Perspektiven. (suhrkamp taschenbuch wissenschaft; 989) Frankfurt am Main: Suhrkamp Taschenbuch Verlag (1992) - S. 92-133
- MINSKY, M.: first person: Marvin Minsky. The Society of Mind. In: New York: The Voyager Company 1994 (Software)
- MISANCHUK, E.R./SCHIWER, R.A.: Representing Interactive Multimedia and Hypermedia Audit Trails. In: Journal of Educational Multimedia and Hypermedia 3 1 (1992) 355-372
- MITCHELL, P.D./GROGOHO, P.D.: Modelling Techniques for Tutoring Systems. In: Computers and Education 1 20 (1993) 55-61
- MOAR, M./SPENSLEY, F. ET AL: Two Uses of Computers in Science Teaching: Horizontal Motion Simulation and Simulation Building. In: De Corte, E./Linn, M.C. et al (eds): Computer-Based Learning Environments and Problem Solving (NATO ASI Series. Series F: Computer and Systems Sciences; 84) Berlin/Heidelberg: Springer (1992) 429-443
- MOLINE, J.: The User Interface: A Hypertext Model Linking Art Objects and Related Information. In: Dillon, M. (ed): Interfaces for Information Retrieval and Online Systems: The State of the Art. New York: Greenwood Press (1991) 133-147
- MONK, A.: The Personal Browser: A Tool for Directed Navigation in Hypertext Systems. In: Interacting with Computers 2 1 (1989) 190-196
- MONNARD, J./PASQUIER-BOLTUCK, J.: An Object-Oriented Scripting Environment for the WEBs Electronic Book System. In: Lucarella, D./Nanard, J. et al (eds): Proceedings of the 4th ACM ECCHT '92 Conference on Hypertext (Milano, Italy, November 30-December 4, 1992) New York: ACM (1992) 81-90
- MONTY, M.L./MORAN, T.P.: A Longitudinal Study of Authoring Using NoteCards. In: ACM SIGCHI Bulletin

- 2 18 (1986) 59-60
- MORARIU, J./SHNEIDERMAN, B.: Design and Research on The Interactive Encyclopedia System (TIES). In: Proceedings of the 29th Conference of the Association for the Development of Computer Based Instructional Systems (1986) 19-21
- MOULTHROP, S.: Toward a Rhetoric of Informing Texts. In: Lucarella, D./Nanard, J. et al (eds): Proceedings of the 4th ACM ECHT '92 Conference on Hypertext (Milano, Italy, November 30-December 4, 1992) New York: ACM (1992) 171-180
- MOYSE, R.: Knowledge Negotiation Implies Multiple Viewpoints. In: Bierman, D.J./Breuker, J./Sandberg, J. (eds): Artificial Intelligence and Education. Proceedings of the 4th International Conference on AI and Education, 24-26 May 1989, Amsterdam) Amsterdam/Springfield, VA/Tokyo: IOS (1989) 141-149
- MOYSE, R.: VIPER: The Design and Implementation of Multiple Viewpoints for Tutoring Systems. In: Moyse, R./Elsom-Cook, M.T. (eds): Knowledge Negotiation. London: Academic Press (1992) 97-134
- MOYSE, R./ELSON-COOK, M.T. (eds): Knowledge Negotiation. London: Academic Press 1992
- MOYSE, R./ELSON-COOK, M.T.: Knowledge Negotiation: An Introduction. In: Moyse, R./Elsom-Cook, M.T. (eds): Knowledge Negotiation. London: Academic Press (1992) 1-20
- MÜHLHÄUSER, M.: Requirements and Concepts for Networked Multimedia Courseware Engineering. In: Mauerer, H. (ed): Computer Assisted Learning. Proceedings 2 Int. Conf. ICCAL (Lecture Notes in Computer Science; 360) Berlin/Heidelberg: Springer (1989) 400-419
- MÜHLHÄUSER, M.: Hypermedia and Navigation as a Basis for Authoring/Learning Environments. In: Journal of Educational Multimedia and Hypermedia 1 1 (1992) 51-64
- MÜLLER, J.: Das Agentendefinitionsproblem. In: Müller, J. (ed): Verteilte Künstliche Intelligenz – Methoden und Anwendungen. Mannheim (1993) 202-221
- MÜNCH, D.: Computermodelle des Geistes. In: Münch, D. (ed): Kognitionswissenschaft. Grundlagen, Probleme, Perspektiven. (suhrkamp taschenbuch wissenschaft; 989) Frankfurt am Main: Suhrkamp Taschenbuch Verlag (1992) 7-53
- MUKHERJEA, S./FOLEY, J.D./HUDSON, S.E.: Interactive Clustering for Navigating in Hypermedia Systems. In: Proceedings of the ECHT'94 European Conference on Hypermedia Technology. Edinburgh (1994) 136-145
- MURAIDA, D.J./SPECTOR, J.M.: The Advanced Instructional Design Advisor. Special Issue: U.S. military developments in instructional technology. In: Instructional Science 4 21 (1992) 239-253
- MURRAY, D.: A Survey of User Cognitive Modelling. National Physical Laboratory. Technical Report 1988
- MURRAY, J.H.: Restructuring Space, Time, Story, and Text in Advanced Multimedia Learning Environments. In: Barrett, E. (ed): Sociomedia: Multimedia, Hypermedia, and the Social Construction of Knowledge. Technical Communication and Information Systems. Cambridge/London: M.I.T. Press (1992) 319-345
- MURRAY, J.H./MALONE, S.A.: The Structure of Advanced Multimedia Learning Environments: Reconfiguring Space, Time, Story, and Text. In: Tomek, I. (ed): Computer Assisted Learning. Proceedings of the 4th International Conference ICCAL '92, Wolfville, Nova Scotia, Canada, June 17-20, 1992. Berlin/Heidelberg: Springer (1992) 21-33
- MYERS, B.A.: Demonstrational Interfaces: A Step Beyond Direct Manipulation. In: Diaper, D./Hammond, N. (eds): People and Computers VI. Proceedings of the HCI '91 Conference (British Computer Society Conference Series; 3) Cambridge: Cambridge University Press (1991) 11-30
- MYLONAS, E.: An Interface to Classical Greek Civilization. In: Journal of the American Society for Information Science 2 43 (1992) 192-201
- MYLONAS, E./HEATH, S.: Hypertext from the Data Point of View: Paths and Links in the Perseus Project. In: Rizk, A./Streitz, N.A./André, J. (eds): Hypertext: Concepts, Systems, and Applications. Proceedings of the ECHT'90 European Conference on Hypertext INRIA. Cambridge: Cambridge University Press (1990) 324-336
- MYNATT, B.T./LEVENTHAL, L.M. ET AL: Hypertext or Book: Which is Better for Answering Questions? In: Proceedings of the ACM CHI '92 (1992) 19-25
- NEAL, J.G./SHAPIRO, S.C.: Knowledge-Based Multimedia Systems. In: Koegel Buford, J.F. (ed): Multimedia Systems. Reading, MA, u.a.: Addison-Wesley (1994) 403-438
- NECHES, R./ANGLEY, P./KLAHR, D.: Learning, Development, and Production Systems. In: Klahr, D./Langley,

- P./Neches, R. (eds): Production System Models of Learning and Development. Cambridge/London: M.I.T. Press (1987) 1-53
- NEGROPONTE, N.: Being digital. London: Hodder & Stoughton 1995
- NEISER, U. (ED): Cognition and Reality. San Francisco, CA: Freeman 1976
- NELSON, T.: Dream Machines: New Freedoms through Computer Screens – A Minority Report. Chicago, Ill: Hugo's Book Service 1974: Nachdruck in Ambron/Hooper (Microsoft Press) 1988
- NELSON, T.H.: Getting It Out of Our System. In: Schecter, G. (ed): Information Retrieval: A Critical Review. Washington, DC: Thompson Books (1967) 191-210
- NELSON, W.A.: Adaptive Hypermedia Instructional Systems: Possibilities for Learner Modeling. Paper presented at the Annual Meeting of the American Educational Research Association (San Francisco, CA, April 20-24, 1992) (ED347195; TM018690 Report)
- NELSON, W.A./PALUMBO, D.B.: Learning, Instruction, and Hypermedia. In: Journal of Educational Multimedia and Hypermedia 3 1 (1992) 287-299
- NESIWR, P.: Microworlds in Mathematical Education: A Pedagogical Realism. In: Resnick, L.B. (ed): Knowing, Learning, and Instruction. Essays in Honor of Robert Glaser. Hillsdale, NJ u.a.: Lawrence Erlbaum Ass. (1989) 187-216
- NEUWIRTH, C.M./CHANDHOK, R. ET AL: Annotations are not »for free«: The Need for Runtime Layer Support in Hypertext Engines. In: Schuler, W./Hannemann, J./Streitz, N.A. (eds): Designing User Interfaces for Hypermedia (Reseach Reports ESPRIT) Berlin/Heidelberg: Springer (1995) 156-166
- NEWELL, A.: Artificial Intelligence and the Concept of Mind. In: Schank, R.C./Colby, K.M. (eds): Computer Models of Thought and Language. San Francisco: W.H. Freeman & Co. (1973) 1-60
- NEWELL, A./SIMON, H.A.: Computer Science as Empirical Inquiry: Symbols and Search. In: Communications of the ACM. 19 (1976) 113-126; ebenfalls in: Haugeland, J. (ed): Mind Design. Cambridge, MA/London, UK: The M.I.T. Press (1981) 35-66; dt. Übers. als: Computerwissenschaft als empirische Forschung. In: Münch, D. (ed): Kognitionswissenschaft. Grundlagen, Probleme, Perspektiven. (suhrkamp taschenbuch wissenschaft; 989) Frankfurt am Main: Suhrkamp Taschenbuch Verlag (1992) 54-91
- NEWMAN, D.: Is a Student Model necessary? Apprenticeship as a Model for ITS. In: Bierman, D.J./Breuker, J./Sandberg, J. (eds): Artificial Intelligence and Education. Proceedings of the 4th International Conference on AI and Education, 24-26 May 1989, Amsterdam. Amsterdam/Springfield, VA/Tokyo: IOS (1989) 177-184
- NEWMAN, D.: Formative Experiments on the Coevolution of Technology and the Educational Environment. In: Scanlon, E./O'Shea, T. (eds): New Directions in Educational Technology (NATO ASI Series. Series F: Computer and Systems Sciences; 96) Berlin/Heidelberg: Springer (1992) 61-70
- NICKERSON, R.S.: On Conversational Interaction with Computers. In: Baecker, R.M./Buxton, W.A.S. (eds): Readings in Human-Computer Interaction: A Multidisciplinary Approach. San Mateo, CA.: Morgan Kaufmann Publishers, Inc. (1987) 681-693
- NICKERSON, R.S./ZODHIATES, P.P. (eds): Technology in Education: Looking Toward 2020. Hillsdale, NJ u.a.: Lawrence Erlbaum Ass. 1988
- NICOL, A.: Interface Design for Hyperdata: Models, Maps and Cues. In: Proceedings of the Human Factors Society 32nd Annual Meeting (1988) 308-312
- NIELSEN, JAKOB: Online Documentation and Reader Annotation. In: Proceedings of the 1st Conference on Work With Display Units. Stockholm (1986) 526-529
- NIELSEN, JAKOB: The Matters that Really Matter for Hypertext Usability. In: Proceedings of the ACM Hypertext '89 Conference (Pittsburgh, PA, November 5-8, 1989) New York: ACM (1989) 239-248
- NIELSEN, JAKOB: A Meta-model for Interacting with Computers. In: Interacting with Computers 2 (1990) 147-160
- NIELSEN, JAKOB: Hypertext and Hypermedia. Boston u.a.: Academic Press 1990a
- NIELSEN, JAKOB: Evaluating Hypertext Usability. In: Jonassen, D.H./Mandl, H. (eds): Designing Hypermedia for Learning (NATO ASI Series. Series F: Computer and Systems Sciences; 67) Berlin/Heidelberg: Springer (1990b) 147-168
- NIELSEN, JAKOB: Review of BBC Interactive Television Unit's Ecodisk. In: Hypermedia 2 2 (1990c) 176-182
- NIELSEN, JAKOB: Usability Considerations in Introducing Hypertext. In: Brown, H. (ed): Hypermedia/Hyper-

- text and Object Oriented Databases. London: Chapman & Hall (1991) 3-13
- NIELSEN, JAKOB (ed): Advances in Human-Computer Interaction. Norwood, NJ: Ablex Publishing 1995
- NIELSEN, JAKOB: Multimedia and Hypertext. The Internet and Beyond. Boston u.a.: Academic Press 1995
- NIELSEN, JANNI: Not the Computer but Human Interaction is the Basis for Cognitive Development and Education. In: *Education and Computing* 2 (1986) 53-61
- NIEMIEC, R.P./WALBERG, H.J.: Comparative Effects of Computer-Assisted Instruction: A Synthesis of Reviews. In: *Journal of Educational Computing Research* 1 3 (1987) 19-35
- NIEMIEC, R.P./WALBERG, H.J.: From Teaching Machines to Microcomputers: Some Milestones in the History of Computer-Based Instruction. In: *Journal of Research on Computing in Education* 3 21 (1989) 263-276
- NISBETT, R.E./WILSON, T.D.: Telling More than We Know: Verbal Reports on Mental Processes. In: *Psychological Review* 84 (1977) 231-259
- NISSAN, E.: Artificial Intelligence in Higher Education AI for Education. Present Trends, as Sources for a Concept of Knowledge-Presentation. In: Oosthoek, H./Vroejenstijn, T. (eds): *Higher Education and New Technologies*. Oxford: Pergamon Press (1989) 67-98
- NIX, D.: Should Computers Know What You Can Do With Them? In: Nix, D./Spiro, R.J. (eds): *Cognition, Education, and Multimedia. Exploring Ideas in High Technology*. Hillsdale, NJ u.a.: Lawrence Erlbaum Ass. (1990) 143-162
- NYNS, R.R.: An Expert System in Computer Assisted Language Learning. In: *Computers and Education* 1-3 15 (1990) 99-103
- O'CONNOR, J./SEYMOUR, J.: Neurolinguistisches Programmieren: Gelungene Kommunikation und persönliche Entfaltung. 2.Aufl. Freiburg: VAK-Verlag 1993
- O'MALLEY, C.E./BAKER, M./EL-SOM-COOK, M.T.: The Design and Evaluation of a Multimedia Authoring System. In: *Computers and Education* 1 17 (1991) 49-60
- O'SHEA, T.: A Self-Improving Quadratic Tutor. In: Sleeman, D./Brown, J.S. (eds): *Intelligent Tutoring Systems*. Boston u.a.: Academic Press (1982) 309-336
- O'SHEA, T./SELF, J.: Learning and Teaching with Computers: Artificial Intelligence in Education. In: O'Shea, T. (ed): *Artificial Intelligence*. Brighton: Harvester (1986)
- OHLSSON, S.: Cognitive Science and Instruction: Why the Revolution is not Here (Yet). In: Mandl, H./De Corte, E. et al (eds): *Learning and Instruction. Social and Cognitive Aspects of Learning and Instruction. (European Research in an International Context; 2.1)* Oxford: Pergamon Press (1990) 561-600
- OHLSSON, S.: Towards Intelligent Tutoring Systems that Teach Knowledge Rather than Skills: Five Research Questions. In: Scanlon, E./O'Shea, T. (eds): *New Directions in Educational Technology (NATO ASI Series. Series F: Computer and Systems Sciences; 96)* Berlin/Heidelberg: Springer (1992) 71-96
- OHLSSON, S.: Impact of Cognitive Theory on the Practice of Courseware Authoring. In: *Journal of Computer Assisted Learning* 4 9 (1993) 194-221
- OHLSSON, S./LANGLEY, P.: Psychological Evaluation of Path Hypotheses in Cognitive Diagnosis. In: Mandl, H./Lesgold, A.M. (eds): *Learning Issues for Intelligent Tutoring Systems*. Berlin/Heidelberg: Springer (1988) 42-62
- OKIE, J.R./SANTIAGO, R.S.: Integrating Instructional and Motivational Design. In: *Performance Improvement Quarterly* 2 4 (1991) 11-21
- OLIVEIRA, A.: Hypermedia and Multimedia. In: Oliveira, A. (ed): *Hypermedia Courseware: Structures of Communication and Intelligent Help (NATO ASI Series. Series F: Computer and Systems Sciences; 92)* Berlin/Heidelberg: Springer (1992) 3-10
- OLSEN, D.R.: Bookmarks: An Enhanced Scrollbar. In: *ACM Trans. Graphics* 3 11 (1992) 291-295
- OPPENHEIM, C.: Virtual Reality and the Virtual Library. In: *Information Services and Use* 13 (1993) 215-227
- OREN, T./SALOMON, G. ET AL: Guides: Characterizing the Interface. In: Laurel, B. (ed): *The Art of Human-Computer Interface Design*. Reading, MA. u.a.: Addison-Wesley (1990) 367-381
- OITTMANN, T.: Entwicklung und Einsatz computergestützter Unterrichtslektionen für den Informatikunterricht an der Hochschule. In: *CAK Computer Anwendungen* 4 (1987) 63ff.
- PAGE, C.R.: The Nuffield Interactive Book System. In: *Educational and Training Technology International* 4

- 28 (1991) 334-340
- PAIVIO, A.: A Dual-coding Approach to Perception and Cognition. In: Pick, H.L. Jr./Salzman, E. (eds): Modes of Perceiving and Processing Information. Hillsdale, NJ u.a.: Lawrence Erlbaum Ass. (1978) 39-51
- PAIVIO, A.: The Empirical Case for Dual Coding. In: Yuille, J.C. (ed): Imagery, Memory and Cognition. Hillsdale, NJ u.a.: Lawrence Erlbaum Ass. (1983) 307-332
- PAIVIO, A.: Mental Representations. A Dual-Coding Approach. New York, Oxford: Oxford University Press 1986
- PALMITER, S./ELKERTON, J.: Animated Demonstrations for Learning Procedural Computer-Based Tasks. In: Human-Computer Interaction. 3 8 (1993) 193-216
- PAPERT, S.: Mindstorms: Children, Computers, and Powerful Ideas. New York: Basic Books 1980
- PAPERT, S.: The Children's Machine: Rethinking School in the Age of the Computer. New York: Basic Books 1992
- PAQUETTE, G.: Discovery Tools for Rule-Based Knowledge Learning. In: Lewis, R./Otsuki, (eds): Advanced Research on Computers in Education. Proceedings of the IFIP TC3 International Conference on Advanced Research on Computers in Education, Tokyo, Japan, 18-20 July, 1990. Amsterdam: North-Holland (1991) 145-150
- PARASCANDOLO, R.: Multimedia Encyclopaedia of Philosophy Sciences. In: Lucarella, D./Nanard, J. et al (eds): Proceedings of the 4th ACM ECCH '92 Conference on Hypertext (Milano, Italy, November 30-December 4, 1992) New York: ACM (1992) 287
- PARK, OK-CHOON/GITTELMAN, S.S.: Selective Use of Animation and Feedback in Computer-Based Instruction. In: Educational Technology, Research and Development 4 40 (1992) 27-38
- PARK, OK-CHOON/HOPKINS, R.: Dynamic Visual Displays in Media-Based Instruction. In: Educational Technology 4 34 (1994) 21-25
- PARK, OK-CHOON/PEREZ, R.S./SEIDEL, R.J.: Intelligent CAI: Old Wine in New Bottles, or a New Vintage? In: Kearsley, G.P. (ed): Artificial Intelligence and Instruction. Reading, MA. u.a.: Addison-Wesley (1987) 11-45
- PARK, OK-CHOON/SEIDEL, R.J.: Instructional Design Principles and AI Techniques for Development of ICAL. In: Computers in Human Behavior 3-4 4 (1987) 273-287
- PARKES, A.P.: Computer-Controlled Video for Intelligent Interactive Use: a Description Methodology. In: Edwards, A.D.N./Holland, S. (eds): Multimedia Interface Design in Education. 2. Aufl. 1994 (NATO ASI Series. Series F: Computer and Systems Sciences; 76) Berlin/Heidelberg: Springer (1992) 97-116
- PARSAYI, K./CHIGNELL, M.H. ET AL (eds): Intelligent Databases. Object-Oriented, Deductive Hypermedia Technologies. New York: John Wiley & Sons, Inc. 1989
- PASEMANN, F.: Repräsentation ohne Repräsentation. Überlegungen zu einer Neurodynamik modularer kognitiver Systeme. In: Rusch, G./Schmidt, S.J. et al (eds): Interne Repräsentationen. Neue Konzepte der Hirnforschung. DELFIN 1996(suhrkamp taschenbuch wissenschaft; 1277) Frankfurt/M.: Suhrkamp (1996) 42-91
- PASK, G.: Styles and Strategies of Learning. In: British Journal of Educational Psychology 46 (1976) 128-148
- PASK, G./SCOTT, B.C.E.: Learning Strategies and Individual Competence. In: International Journal of Man-Machine Studies 4 (1972) 217-253
- PATTERSON, J.F./EGIDO, C.: Video Browsing and System Response Time. In: Diaper, D./Winder, R. (eds): People and Computers III (British Computer Society Conference Series; 3) Cambridge: Cambridge University Press (1987) 189-198
- PEA, R.D.: Putting Knowledge to Use. In: Nickerson, R.S./Zodhiates, P.P. (eds): Technology in Education: Looking Toward 2020. Hillsdale, NJ u.a.: Lawrence Erlbaum Ass. (1988) 169-212
- PEA, R.D.: Augmenting the Discourse of Learning with Computer-Based Learning Environments. In: De Corte, E./Linn, M.C. et al (eds): Computer-Based Learning Environments and Problem Solving (NATO ASI Series. Series F: Computer and Systems Sciences; 84) Berlin/Heidelberg: Springer (1992) 313-343
- PEA, R.D.: Seeing What We Build Together: Distributed Multimedia Learning Environments for Transformative Communications. Special Issue: Computer Support for Collaborative Learning. In: The Journal of the Learning Sciences 3 3 (1994) 285-299
- PEA, R.D./GOMEZ, L.M.: Distributed Multimedia Learning Environments: Why and How? In: Interactive