

MICHAEL J. HANNAFIN

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EDUCATION

Ph.D., Educational Technology (August, 1981)	Arizona State University Tempe, AZ 85287
M.S., Psychology (Educational/School) (August, 1974)	Fort Hays State University Hays, KS 67601
B.S., Psychology (Education Minor) (May, 1972)	Fort Hays State University Hays, KS 67601

UNIVERSITY EXPERIENCE

UNIVERSITY OF GEORGIA

(Summer, 1995-present)

CHARLES H. WHEATLEY-GEORGIA RESEARCH ALLIANCE EMINENT SCHOLAR OF TECHNOLOGY-ENHANCED LEARNING and *PROFESSOR*, Tenured in the Department of Educational Psychology & Instructional Technology. Responsibilities include teaching graduate seminars, advising graduate students, serving on department, College and University committees, and mentoring graduate students through the lab's R&D initiatives.

DIRECTOR, Learning and Performance Support Laboratory. Responsibilities include establishing and providing direction for organization focusing on technology's roles in teaching, learning and performance. Lab includes 15 faculty, 3 research scientists, 28 graduate research assistants, and 2 support staff, with multiple externally-funded projects and annual support in excess of \$3 million.

FLORIDA STATE UNIVERSITY

(1989-Summer, 1995)

PROFESSOR, Tenured in the Department of Educational Research (Instructional Systems and Educational Psychology Program). Responsibilities include teaching graduate and undergraduate courses in research, learning and cognition, and emerging computer-based instructional technologies, sustaining an individual program of research, supervising graduate student research, and serving on College and University committees.

DIRECTOR, Center for Instructional Development and Services (CIDS), from July, 1989- Dec., 1991. Responsibilities included establishing and implementing policy, overseeing the fiscal activities, proposal development, and operations of the Center, serving as liaison between Center and external funding agencies, promoting programmatic interaction between faculty and Center, and assisting various state agencies in long-term planning related to instruction and training.

UNITED STATES AIR FORCE ACADEMY

(1/92-6/93)

VISITING PROFESSOR, Educational Technology Center and Department of Behavioral Sciences and Leadership. Responsibilities include long-range strategic planning for curriculum redesign, integrating educational technologies within the academic programs, teaching courses in learning and cognition, conducting research related to learning and performance, and consulting on education and training applications of emerging technologies.

THE PENNSYLVANIA STATE UNIVERSITY

(6/84-5/89)

ASSOCIATE PROFESSOR, Tenured in the Division of Curriculum and Instruction (Instructional Systems Program). Responsibilities included developing and teaching graduate level courses in instructional applications of computers; developing the computer emphasis within the Instructional Systems Program; supervising and advising masters and doctoral students academic and thesis work; conducting and publishing scholarly research in instructional computing applications.

DIRECTOR, Center for Research and Development in Education Computing, College of Education. Established an educational computing R&D center to pursue state-of-the-art applications across the program areas represented within the college. Responsibilities included identifying appropriate funding sources, recruiting faculty participation, and the promoting the center externally, and planning for educational computing.

ASSOCIATE DIRECTOR, Penn State University Regional Computer Resource Center (RCRC), (Spring 1985-1987). Responsibilities focused on the prescription of an appropriate regional service capacity for the center in education computing. Primary influence was in emphasizing the role of the so-called emerging instructional technologies for public education in the future.

UNIVERSITY OF COLORADO

(7/81-5/84)

ASSISTANT PROFESSOR, Division of Educational Psychological Studies (Educational Technology and Instructional Computing Program). Responsibilities included developing and teaching graduate level courses in research, learning and cognition, instructional design, and computer assisted instruction; program planning and developing; student advising; providing service to university, professional, and community agencies; and publishing original scholarly research.

PUBLIC EDUCATION EXPERIENCE

GILBERT PUBLIC SCHOOLS, Gilbert, AZ

(8/76-6/81)

CURRICULUM DIRECTOR (8/79-6/81). Planned and oversaw transition to competency-based curriculum, development of multicultural programs for both Anglo and Hispanic students, development of outcome-keyed supplemental teaching modules, indexing of support materials to curriculum competencies, creation of new Curriculum Materials Center, hiring and evaluation of staff, faculty development, and budget.

SCHOOL PSYCHOLOGIST AND DIRECTOR, COUNSELING AND PSYCHOLOGICAL SERVICES (8/76-8/79). Oversaw all K-12 counseling and school psychological services in the district, including policy-making, testing and placement procedures, career and vocational guidance, crisis counseling, test administration, reporting to district and state, and grant writing related to counseling and psychological services. Provided psychometric and crisis counseling services to high school, including testing for eligibility for special programs, monitoring the progress of special education students, conducting routine follow-up evaluations, and certifying compliance with state and federal laws related to education of the handicapped.

NORTHWEST KANSAS EDUCATIONAL COOPERATIVE, Colby, KS

(8/74-6/76)

SCHOOL PSYCHOLOGIST (K-12) Provided itinerant school psychological services to remote, rural Kansas communities, including evaluations and placement for special education programs, designing program interventions in the school and home, and crisis counseling.

RESEARCH ACTIVITIES

JOURNAL PUBLICATIONS

- KIM, M., & HANNAFIN, M.J. (in press). Scaffolding 6th graders' problem solving in technology-enhanced science classrooms. *INSTRUCTIONAL SCIENCE*.
- SHEPHERD, C., & HANNAFIN, M.J. (in press). Supporting preservice teacher inquiry with electronic portfolios. *JOURNAL OF TECHNOLOGY AND TEACHER EDUCATION*.
- POLLY, D., & HANNAFIN, M.J. (in press). Examining how learner-centered professional development influences teachers' espoused and enacted practices. *JOURNAL OF EDUCATIONAL RESEARCH*.
- POLLY, D., & HANNAFIN, M.J. (in press). Reexamining technology's role in learner-centered professional development. *EDUCATIONAL TECHNOLOGY RESEARCH & DEVELOPMENT*.
- HANNAFIN, M.J., SHEPHERD, C., & POLLY, D. (2010). Video assessment of classroom teaching practices: Lessons learned, problems & issues. *EDUCATIONAL TECHNOLOGY*, 50(1), 32-37.
- WANG, F., & HANNAFIN, M.J. (2009) Scaffolding preservice teachers' WebQuest design: A qualitative study. *JOURNAL OF COMPUTERS IN HIGHER EDUCATION* 21, 218-234.
- RICH, P., & HANNAFIN, M.J. (2009). Scaffolded video self-analysis: Discrepancies between preservice teachers' perceived and actual instructional decisions. *JOURNAL OF COMPUTING IN HIGHER EDUCATION*, 21, 128-145.
- SHEPHERD, C., & HANNAFIN, M.J. (2009). Beyond recollection: Re-examining preservice teacher practices using structured evidence, analysis, and reflection. *JOURNAL OF TECHNOLOGY AND TEACHER EDUCATION*, 17(2), 229-251.
- WEST, R., RICH, P., SHEPHERD, C., RECESSO, A., & HANNAFIN, M.J. (2009). Supporting induction teachers' development using performance-based video evidence. *JOURNAL OF TECHNOLOGY AND TEACHER EDUCATION*, 17(3), 369-391.
- GLAZER, E., HANNAFIN, M.J., POLLY, A., & RICH, P. (2009). Factors and interactions influencing technology integration during situated professional development in an elementary school. *COMPUTERS IN THE SCHOOLS*, 26, 21-39.
- HANNAFIN, M.J., HANNAFIN, K., & GABBITAS, B (2009). Re-examining cognition during student-centered, Web-based learning. *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*, 57, 767-785.
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- HANNAFIN, M.J. (2009). Review of "Learners in a changing learning landscape: Reflections from a dialog on new roles and expectations." *EDUCATIONAL TECHNOLOGY RESEARCH & DEVELOPMENT*, 57, 585-586.
- KIM, H., & HANNAFIN, M.J. (2009). Web-enhanced case-based activity in teacher education: A case study. *INSTRUCTIONAL SCIENCE*, 37, 151-170.
- RICH, P., & HANNAFIN, M.J. (2009). Video annotation tools: Technologies for assessing and improving preservice teachers' instructional decision making. *JOURNAL OF TEACHER EDUCATION*, 60(1), 52-67.
- SHEPHERD, C., & HANNAFIN, M.J. (2008). Examining preservice teacher inquiry through video-based, formative assessment portfolios. *JOURNAL OF COMPUTING IN TEACHER EDUCATION*, 25(1), 63-69.
- KIM, H., & HANNAFIN, M.J. (2008). Situated case-based knowledge: An emerging framework for preservice teacher learning. *TEACHING AND TEACHER EDUCATION*, 24, 1837-1845.
- KIM, H., & HANNAFIN, M.J. (2008). Grounded design and Web-enhanced, case-based reasoning. *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*, 56, 161-179.
- WANG, F., & HANNAFIN, M.J. (2008). Integrating WebQuests in preservice teacher education. *EDUCATIONAL MEDIA INTERNATIONAL*, 45(1), 59-73.
- RICH, P., & HANNAFIN, M.J. (2008). Capturing and assessing evidence of student teacher inquiry: A case study. *TEACHING AND TEACHER EDUCATION*, 24(6), 1426-1440.
- GLAZER, E., & HANNAFIN, M.J. (2008). Factors that influence mentor and teacher interactions during technology integration collaborative apprenticeships. *JOURNAL OF TECHNOLOGY AND TEACHER EDUCATION*, 16(1), 35-61.
- RICH, P., & HANNAFIN, M.J. (2008) Decisions and reasons: Examining preservice teachers' decision making through video self-analysis. *JOURNAL OF COMPUTING IN HIGHER EDUCATION*, 20(1), 62-94.
- KIM, M., HANNAFIN, M.J., & BRYAN, L. (2007) Technology-enhanced inquiry tools in science education: An emerging pedagogical framework for classroom practice. *SCIENCE EDUCATION*, 96(6), 1010-1030.
- SHARMA, P., & HANNAFIN, M.J. (2007). Scaffolding in technology-enhanced learning environments. *INTERACTIVE LEARNING ENVIRONMENTS*, 15(1), 27-46.
- SONG, L, HANNAFIN, M.J., & HILL, J. (2007). Reconciling beliefs and practices in teaching and learning. *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*, 55(1), 27-50.
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- GLAZER, E., & HANNAFIN, M.J. (2006). The Collaborative Apprenticeship model: Situated professional development within school settings. *TEACHING AND TEACHER EDUCATION*, 22(2), 179-193.
- HANNAFIN, M.J. (2006). Disciplined inquiry in computer-supported learning research. *COMPUTERS IN HUMAN BEHAVIOR*, 22(1), 149-153.
- HANNAFIN, M.J. (2006). Functional contextualism in learning and instruction: Pragmatic science or behaviorism revisited? *EDUCATIONAL TECHNOLOGY RESEARCH & DEVELOPMENT*, 54(1), 36-40.
- GLAZER, E., HANNAFIN, M.J., & SONG, L. (2005). Promoting technology integration through collaborative apprenticeships. *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*, 53(4), 57-67.
- WANG, F., & HANNAFIN, M.J. (2005). Design-based research and technology-enhanced learning environments. *EDUCATIONAL TECHNOLOGY RESEARCH & DEVELOPMENT*, 53(4), 5-23.
- IYOSHI, T., HANNAFIN, M.J., & WANG, F. (2005) Cognitive tools and student-centered learning: Rethinking tools, functions, and applications. *EDUCATIONAL MEDIA INTERNATIONAL*, 42(4), 281-296.
- HANNAFIN, M.J., ORRILL, C., KIM, H., & KIM, M. (2005). Educational technology research in postsecondary settings: Promise, problems, and prospects. *JOURNAL OF COMPUTING IN HIGHER EDUCATION*, 16(2), 3-22.
- KIM, H., HANNAFIN, M.J., & KIM, M. (2005). Online case-based learning: Components, applications, and assessment. *DISTANCE LEARNING*, 1(5), 23-31.
- SHARMA, P., & HANNAFIN, M.J. (2005). Learner perceptions of scaffolding in supporting critical thinking. *JOURNAL OF COMPUTING IN HIGHER EDUCATION*, 17(1), 17-42.
- SHARMA, P., & HANNAFIN, M.J. (2004). Scaffolding critical thinking in an online course: An exploratory study. *JOURNAL OF EDUCATIONAL COMPUTING RESEARCH*, 31(2), 181-208.
- KIM, M., & HANNAFIN, M. (2004). Designing on-line learning environments to support scientific inquiry. *QUARTERLY REVIEW OF DISTANCE EDUCATION*, 5(1), 1-10.
- HANNAFIN, M.J., KIM, M., & KIM, J. (2004). Reconciling research, theory and practice in Web-based teaching and learning. *JOURNAL OF COMPUTING IN HIGHER EDUCATION*, 15(2), 3-20.
- HANNAFIN, M.J., & KIM, M. (2003). In search of a future: A critical analysis of research on Web-based teaching and learning. *INSTRUCTIONAL SCIENCE*, 31, 347-351.
- HANNAFIN, K.M., & HANNAFIN, M.J. (2003). Transitioning perspectives to optimize training designs. *HUMAN SYSTEMS IAC GATEWAY*, 14(1), 3-6. [Also available at http://iac.dtic.mil/hsiac/GW-docs/gw_xiv_1.pdf].
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- HILL, J., & HANNAFIN, M.J. (2001). Teaching and learning in digital environments: The resurgence of resource-based learning. *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*, 49(3), 37-52.
- OLIVER, K., & HANNAFIN, M.J. (2000). Student management of Web-based hypermedia resources during open-ended problem solving. *JOURNAL OF EDUCATIONAL RESEARCH*, 94(2), 75-92.
- HANNAFIN, M.J., & LAND, S.M. (2000). Technology and student-centered learning in higher education: Issues and practices. *JOURNAL OF COMPUTING IN HIGHER EDUCATION*, 12(1), 3-30.
- HILL, J., & HANNAFIN, M.J. (1997). Cognitive strategies and learning from the World-Wide Web. *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*, 45(4), 37-64.
- HANNAFIN, M.J. (1997). The Technology Paradox: Or, can you get your horse to the moon? *ACCESS, Fall*, 2,5.
- HANNAFIN, M.J. & LAND, S. (1997). The foundations and assumptions of technology-enhanced, student-centered learning environments. *INSTRUCTIONAL SCIENCE*, 25, 167-202.
- HANNAFIN, M.J., HANNAFIN, K.M., LAND, S., & OLIVER, K. (1997). Grounded practice and the design of constructivist learning environments. *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*, 45(3), 101-117.
- CHOI, J-I., & HANNAFIN, M.J. (1997). The effects of instructional context and reasoning complexity on mathematics problem solving. *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*, 45(3), 43-55.
- LAND, S., & HANNAFIN, M.J. (1997). Patterns of understanding with open-ended learning environments: A qualitative study. *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*, 45(2), 47-73.
- HANNAFIN, M.J., HILL, J., & LAND, S. (1997). Student-centered learning and interactive multimedia: Status, issues, and implications. *CONTEMPORARY EDUCATION*, 68(2), 94-99.
- LAND, S., & HANNAFIN, M.J. (1996). A conceptual framework for the development of theories-in-action with open learning environments. *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*, 44(3), 37-53.
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- HANNAFIN, K.M., & HANNAFIN, M.J. (1994/1995). The ecology of distance learning environments. *TRAINING RESEARCH JOURNAL*, 1, 49-69.
- GALL, J.E., & HANNAFIN, M.J. (1994). A framework for the study of hypertext. *INSTRUCTIONAL SCIENCE*, 22, 207-232.
- HANNAFIN, M.J., HALL, C., LAND, S., & HILL, J. (1994). Learning in open-ended environments: Assumptions, methods, and implications. *EDUCATIONAL TECHNOLOGY*, 34(8), 48-55.
- OSMAN, M., & HANNAFIN, M.J. (1994). The effects of advance questions and prior knowledge on science learning. *JOURNAL OF EDUCATIONAL RESEARCH*, 88(1), 5-13.
- PARK, I., & HANNAFIN, M. (1993). Empirically-based guidelines for the design of interactive multimedia. *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*, 41(3), 63-85.
- HANNAFIN, M.J. (1993). A job well-done: A tribute to Allen Avner. *JOURNAL OF COMPUTER-BASED INSTRUCTION*, 20(1), A-4.
- OSMAN, M., & HANNAFIN, M.J. (1992). Metacognition research and theory: Analysis and implications for instructional design. *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT* 40(2), 83-99.
- HANNAFIN, M.J., & HOOPER, S. (1992). Introduction to special issue. *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*, 40(1), 47.
- HANNAFIN, M.J. (1992). Emerging technologies, ISD, and learning environments: Critical perspectives. *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*, 40(1), 49-63.
- GREJDA, G., & HANNAFIN, M.J. (1992). The effects of word processing on the revisions and holistic writing of sixth graders. *JOURNAL OF EDUCATIONAL RESEARCH*, 85, 144-149.
- GREJDA, G., & HANNAFIN, M.J. (1991). The influence of word processing on the revision patterns of fifth grade students. *COMPUTERS IN THE SCHOOLS*, 8(4), 89-102.
- HOOPER, S., & HANNAFIN, M.J. (1991). The effects of group composition on achievement, interaction, and learning efficiency during computer-based cooperative learning. *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*, 39(3), 27-40.
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- HOOPER, S., & HANNAFIN, M.J. (1991). Psychological perspectives on emerging instructional technologies: A critical analysis. *EDUCATIONAL PSYCHOLOGIST*, 26, 69-95.
- HANNAFIN, M.J. (1989). Interaction strategies and emerging instructional technologies: Psychological perspectives. *CANADIAN JOURNAL OF EDUCATIONAL COMMUNICATION*, 18, 167-179.
- HANNAFIN, M.J., & HOOPER, S. (1989). An integrated framework for CBI screen design. *COMPUTERS IN HUMAN BEHAVIOR*, 5, 155-165.
- HOOPER, S.R., WARD, T.J., HANNAFIN, M.J., & CLARK, H.T. (1989). The effects of aptitude composition on achievement during small-group learning. *JOURNAL OF COMPUTER-BASED INSTRUCTION*, 16, 102-109.
- HANNAFIN, M.J., & RIEBER, L.P. (1989a). Psychological foundations of instructional design for emerging computer-based instructional technologies: Part I. *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*, 37, 91-101.
- HANNAFIN, M.J., & RIEBER, L.P. (1989b). Psychological foundations of instructional design for emerging computer-based instructional technologies: Part II. *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*, 37, 102-114.
- HANNAFIN, M.J. (1989). The death of educational technology has been greatly exaggerated. *CANADIAN JOURNAL OF EDUCATIONAL COMMUNICATION*, 18, 140-142.
- DALTON, D., HANNAFIN, M.J., & HOOPER, S. (1989). The effects of cooperative versus individualized instructional strategies on learning from computer-based instruction. *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*, 37, 15-24.
- HANNAFIN, M.J. (1988). Review of 'Interactive media: Working methods and practical applications.' *INSTRUCTIONAL SCIENCE*, 17, 189-190.
- HOOPER, S., & HANNAFIN, M.J. (1988). Learning the ROPES of instructional design: Guidelines for emerging instructional technologies. *EDUCATIONAL TECHNOLOGY*, 28(7), 14-18.
- DALTON, D., & HANNAFIN, M.J. (1988). The effects of computer-assisted versus traditional mastery methods on computation accuracy and attitudes. *JOURNAL OF EDUCATIONAL RESEARCH*, 82, 27-33.
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- PHILLIPS, T.L., HANNAFIN, M.J., & TRIPP, S. (1988). The effects of practice and orienting activities on learning from interactive video. *EDUCATIONAL COMMUNICATION AND TECHNOLOGY JOURNAL*, 36, 93-102.
- HANNAFIN, M.J. (1988). The effects of instructional explicitness on learning and error persistence. *CONTEMPORARY EDUCATIONAL PSYCHOLOGY*, 13, 126-132.
- HANNAFIN, M.J., & COLAMAIO, M. (1987). The effects of variations in lesson control and practice on learning from interactive video. *EDUCATIONAL COMMUNICATION AND TECHNOLOGY JOURNAL*, 35, 203-212.
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- HANNAFIN, M.J. (1987). The effects of orienting activities, cueing, and practice on learning from computer-based instruction. *JOURNAL OF EDUCATIONAL RESEARCH*, 81, 48-53.
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- HANNAFIN, M.J. (1987). Professional Report: The Center for Research and Development in Education Computing at The Pennsylvania State University. *JOURNAL OF COMPUTER-BASED INSTRUCTION*, 14, 78-79.
- PAULINE, R., & HANNAFIN, M.J. (1987). Interactive slide-sound instruction: Incorporating the power of the computer with high-fidelity visual and aural images. *EDUCATIONAL TECHNOLOGY*, 27(6), 27-31.
- SWADENER, M., & HANNAFIN, M.J. (1987). Gender similarities and differences in sixth grader's attitudes towards computers: An exploratory study. *EDUCATIONAL TECHNOLOGY*, 27(1), 37-42.
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ON-LINE PUBLICATIONS/PUBLISHED INTERVIEWS

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INTERNATIONAL PRESENTATIONS

- HANNAFIN, M. (2009-NOVEMBER). *Learning without instruction: Research, theory and practice in student-centered learning in technology-rich environments*. Keynote address as the BK21-Korea Association of Educational Media International Conference, Seoul, Korea.
- HANNAFIN, M. (2008-October). *Student-centered learning and "other-centered" accountability: Must they be mutually exclusive?* Keynote address at annual meeting of the Cognition and Exploratory Learning in Digital Age (CELDA), Freiburg, Germany.
- HANNAFIN, M., & HANNAFIN, K. (2008-October). Cognition and student-centered, Web-based learning: Issues and implications for research and theory. Paper presented at annual meeting of the Cognition and Exploratory Learning in Digital Age (CELDA), Freiburg, Germany
- HANNAFIN, M. (2007-March). *Using Web-based technology to analyze and improve classroom teaching practices*. Keynote address at Sultan Qaboos University, Muscat, Oman.
- HANNAFIN, M. (2004-August). *Disciplined inquiry and the study of emerging technology: The emergence of design-based research*. Keynote address at the Eastern Finland Virtual University annual meeting, Savonlinna, Finland.
- KIM, H., & HANNAFIN, M.J. (2004, June) *Grounded design of web-enhanced case methods: case-based reasoning for preservice teachers*. Paper presented at the World Conference on Educational Multimedia, Hypermedia, & Telecommunications, Lugano, Switzerland.
- HANNAFIN, M. (2004-July). *Resource-based teaching and learning: Principles, structures and strategies*. Keynote address at the Instructional Design-Learning and Instruction with Computers SIM of the European Association for Research on Learning and Instruction (EARLI), Tübingen, Germany.
- HANNAFIN, M. (2003-November). *Teaching, learning and technology: Issues of theory, practice and accountability*. Keynote address at the Korean Society of Education (KSSE) International Conference: The Role of Education in the 21st Century, Seoul Korea.
- HANNAFIN, M. (2003-November). *Grounded design: Theory, practice and issues*. Invited presentation at Ewha University, Seoul Korea.
- KIM, M., & HANNAFIN, M.J. (2003-June). *Scientific inquiry and Web-based learning environments: Emerging perspectives*. Presented at the World Conference on Educational Multimedia, Hypermedia, and Educational Telecommunications, Honolulu, HI.
- MCCARTHY, J.E., WAYNE, J.L., HANNAFIN, M.J., HANNAFIN, K.M., & RADTKE, P. (2003-May). *Facilitating the authoring of documentation, training, and performance support by content experts*. Paper presented
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- to the 14th International Training Equipment Conference, London, UK.
- HANNAFIN, M.J. (2001-September). *The psychology of E-learning*. Keynote address presented at the Symposium, "E-Learning: The future of education," at Asian Media and Communication Center and National Institute of Education, Singapore.
- HANNAFIN, M.J. (2001-September). *Resource-based teaching and learning: A new generation of Web-enhanced learning environments*. Keynote address presented at the Symposium, Educational Technology/Emerging Technologies in Higher Education, at Sultan Qaboos University, Muscat, Oman.
- HANNAFIN, M., MCCARTHY, J., HANNAFIN, K., & RADTKE, P. (2001-June) *Scaffolding performance in EPSS: Bridging theory and practice*. Presented at the International Conference of Educational Multimedia, Hypermedia and Telecommunications, Tampere, Finland.
- HANNAFIN, M. (2001-JUNE). *Student-centered learning environments for virtual education*. Presented at the Inaugural Conference of Finland Virtual University, Savonlinna, Finland.
- MCCARTHY, J., HANNAFIN, M.J., STANARD, T., & RADTKE, P. (2000-June). *TRIAD: Tactical Readiness Instruction, Authoring, and Delivery*. Presented at the World Conference on Educational Multimedia, Hypermedia, and Educational Telecommunications, Montreal, Canada.
- HANNAFIN, M.J. (2000-May). *Technology and resource-based teaching and learning*. Keynote address at the Congress on Education, Monterrey, Mexico.
- HANNAFIN, M.J. (2000-April). *The promise, peril, and performance of educational technology*. Keynote address at the International Forum of the Kuwait Teacher's Society, Kuwait City.
- HANNAFIN, M.J. (2000-March). *Evaluating the effectiveness of technology in schools: Questions, answers and issues*. Keynote address at Interdisciplinary Symposium on Futures of Education, Zurich, Switzerland.
- HANNAFIN, M.J. (1998-June). *Scaffolding the transformation of meaning in resource-based learning environments (RBLEs)*. Presented at the World Conference on Educational Multimedia and Hypermedia and World Conference on Educational Telecommunications, Freiburg, Germany.
- HANNAFIN, M.J. (1997-December). *The case for grounded design: What the literature suggests about effective teaching, learning, and technology*. Keynote address at the annual meeting of the Australian Society for Computers in Tertiary Education (ASCILITE), Perth, Australia.
- HANNAFIN, M.J. (1997-October). *Better learning with multimedia? Concepts and results from psychology and education*. Keynote
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- address given at Multimedia und internet--neue perspektiven für die bildung, Gesellschaft für Padagogik und Information (GPI), Munich, Germany.
- HANNAFIN, M.J. (1996-September). *Technology and the design of interactive performance support systems*. Invited presentation at International Conference on Educational Technology, Beijing, China.
- HANNAFIN, M.J. (1996-August). *Foundations and tools for student-centered learning*. Invited presentation given at TOTY, University of Joensuu, Finland.
- HANNAFIN, M.J. (1996-August). *The foundations of open learning environments*. Invited presentation given at Free University of Berlin, Germany.
- HANNAFIN, M.J. (1993-July). *Emerging technologies and the design of open-ended learning environments*. Invited presentation at the NATO Advanced Study Institute on Automating Instructional Design, Grimstad, Norway.
- HANNAFIN, M.J. (1990-October). *Psychological foundations of hypermedia learning environments*. Invited workshop given at the joint National Taiwan University/ National Open University workshop, Taipei, Taiwan.
- HANNAFIN, M.J. (1990-October). *Computers and the advent of hypermedia learning environments*. Invited address given at the joint Han Yang University-Ministry of Education Computers in Education Conference, Seoul, Korea.
- HANNAFIN, M.J. (1990-September). *Next-generation learning environments: The merging of psychology and technology*. Invited presentation given at Humboldt University, East Berlin, Germany.
- HANNAFIN, M.J. (1990-April). *Psychological and pedagogical requirements of computer-based learning environments*. Keynote address presented at the annual meeting of the Mexican Society of Computers in Education (SOMECE), Monterrey, MX.
- HANNAFIN, M.J. (1990-March). *Technology and the classroom of tomorrow: The evolution of learning environments*. Keynote address given to the Second International Congress on Educational Sciences, Nuevo Leon, MX.
- HANNAFIN, M.J. (September-October, 1988). *The search for a psychological framework for utilizing emerging instructional technologies*. Presented at Computers, Education, and Children, Soviet Academy of Sciences, Leningrad-Moscow, USSR.

NATIONAL PRESENTATIONS

- Shen, Y., & Hannafin, M.J. (2009, October). *Scaffolding higher-order thinking during ill-structured problem solving: A conceptual framework*.
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- Paper presented at the annual meeting of the Association for Educational Communication and Technology, Louisville, KY.
- Shen, Y., & Hannafin, M.J. (2009, October). *Scaffolding preservice teachers to teach with technology using guided problem solving*. Paper presented at the annual meeting of the Association for Educational Communication and Technology, Louisville, KY.
- Hannafin, M.J. (2009, April). *Assessing teaching practice via video analysis*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Hannafin, M.J. (2009, April). *Promises and pitfalls of open-ended learning environments*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Hannafin, M.J. (2009, April). *Writing and managing large grants*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Shepherd, C., & Hannafin, M.J. (2008, November). *Do you see what I see: Using video, e-portfolios, and reflective prompts to scaffold self-examination*. Paper presented for presentation at the annual meeting of the Association for Educational Communication and Technology, Orlando, FL.
- ORRILL, C., & HANNAFIN, M.J. (2008, November). *Building a technology research agenda: An early career symposium*. Two-day symposium accepted for presentation at the annual meeting of the Association for Educational Communication and Technology, Orlando, FL.
- SHEPHERD, C., & HANNAFIN, M.J. (2008, November). *Do you see what I see: Using video, e-portfolios, and reflective prompts to scaffold self-examination*. Paper accepted for presentation at the annual meeting of the Association for Educational Communication and Technology, Orlando, FL.
- Kim, M., & Hannafin, M.J., & Bryan (2008, March). An emerging pedagogical framework for utilizing technology-enhanced inquiry tools in science classes. Paper presented at the annual meeting of the American Educational Research Association, New York.
- RICH, P., RECESSO, A, ALLEXSAHT-SNIDER, M., & HANNAFIN, M.J. (2007, March). *The use of video-based evidence to analyze, act on, and adapt preservice teacher practice*. Paper presented at the annual meeting of the American Educational Research Association, Chicago.
- KIM, M., & HANNAFIN, M.J. (2007, March). *Exploring critical factors influencing middle school students' use of Web-enhanced tools in science classrooms*. Paper presented at the annual meeting of the American Educational Research Association, Chicago.
- RICH, P., RECESSO, A, HANNAFIN, M.J., SHEPHERD, C., & DEATON, B. (2007, March). *Evidence-Based Decision Support: A practical method for inquiring about and evaluating teacher quality*. Paper presented at
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- the annual meeting of the American Educational Research Association, Chicago.
- POLLY, A., & HANNAFIN, M.J. (2007, March). *Examining the influence of learner-centered professional development on elementary mathematics' teacher-enacted and espoused practices*. Paper presented at the annual meeting of the American Educational Research Association, Chicago.
- SHEPHERD, C., RICH, P. WEST, R. HANNAFIN, M.J., & RECESSO, A. (2007, March). *Facilitating mentoring experiences with video-based portfolios*. Paper presented at the annual meeting of the American Educational Research Association, Chicago.
- WEST, R., RECESSO, A, HANNAFIN, M.J., RICH, P., SHEPHERD. C., & DEATON, B. (2007, March). *Evidential boundaries and the assessment of teacher practice*. Paper presented at the annual meeting of the American Educational Research Association, Chicago.
- POLLY, A., & HANNAFIN, M.J. (2007, March). *A look at evidence of students' mathematical understanding in light of elementary school teachers' enacted tasks*. Paper presented at the annual meeting of the American Educational Research Association, Chicago.
- SHEPHERD, C., HANNAFIN, M.J., & RECESSO, A. (2007, March). *Enhancing portfolio development with evidence-based decision support methods*. Paper presented at the annual meeting of the American Educational Research Association, Chicago.
- RICH, P., WEST, R., RECESSO, A., & HANNAFIN, M.J. (2007, February). *Enhancing preservice teachers' decision-making through self-assessment of video evidence and interpretive lenses*. Paper presented at the annual meeting of the American Association of Colleges of Teacher Education (AACTE), New York, NY.
- SHEPHERD, C., RECESSO, A., & HANNAFIN, M.J. (2006, October). *Redefining preservice teacher portfolios through evidence-based decision support*. Paper presented at the annual conference of the Association for Educational Communication and Technology, Dallas, TX.
- KIM, M., & HANNAFIN, M.J. (2006, October). *Sixth graders different problem-solving patterns: Implications for project-based, Web-enhanced classes*. Paper presented at the annual conference of the Association for Educational Communication and Technology, Dallas, TX.
- RECESSO, A., HANNAFIN, M.J, DEATON, B., & RICH, P. (2006, March). *Evidence-based improvement of teacher practices*. Paper presented at the annual meeting of the Society for Information Technology and Teacher Education's conference, Orlando, FL.
- KIM, H., & HANNAFIN, M.J. (2006, April). *Web-enhanced, case-based reasoning in preservice teacher education: A case study*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
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- KIM, M., & HANNAFIN, M.J. (2006, April). *Peers, teachers, and tool scaffolding of 6th graders' problem solving in Web-enhanced, inquiry-supported classrooms*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- KIM, H., & HANNAFIN, M.J. (2006, April). *Learning to teach with technology: Developing situated knowledge via Web-enhanced, case-based reasoning*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- KIM, M., & HANNAFIN, M.J. (2006, April). *Middle-school students' situated problem solving in Web-enhanced learning environments (WELEs): A case study*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- RECESSO, A., HANNAFIN, M., DEATON, B., SHEPHERD, C., & RICH, P. (2006, March). *Evidence-based improvement of teacher practices*. Paper presented at the annual meeting of the Society for Information Technology and Teacher Education (SITE) conference, Orlando, FL.
- DEATON, B., RICH, P. SHEPHERD, C., RECESSO, A., & HANNAFIN, M. (2005, October). *Supporting the development of preservice teachers' knowledge with evidence-based inquiry*. Paper presented at the annual conference of the Association for Educational Communication and Technology, Orlando, FL.
- KIM, M., & HANNAFIN, M. J. (2005, October). *A framework, critical issues, and implications for research on problem-Solving with Technology-Enhanced Learning Environments (TELEs)*. Paper presented at the annual conference of the Association for Educational Communication and Technology, Orlando, FL.
- KIM, M., HANNAFIN, M. J., & BRYAN, L (2005, October). *Scaffolding 7th graders' problem solving in technology-enhanced, Project-based science classroom*. Paper presented at the annual conference of the Association for Educational Communication and Technology, Orlando, FL, USA.
- KIM, H., & HANNAFIN, M. J. (2005, October). *Supporting preservice teachers' authentic activity and learning in the web-enhanced case-based reasoning (CBR) learning environment: A case study*. Paper presented at the annual conference of the Association for Educational Communication and Technology, Orlando, FL.
- HANNAFIN, M., & HICKEY, D. (2005, April). *Evaluating a Statewide Initiative to Improve the Mathematics Achievement of Elementary School Students: Plan: Status and Lessons Learned*. Presented at Strategies and Solutions for Research in Educational Technology Interactive Symposium at annual meeting of American Educational Research Association, Montreal, Canada.
- SHEPHERD, C. E., RICH, P., WANG, F., DEATON, B., RECESSO, A., & HANNAFIN, M. (2005, April). *Technology integration through teacher educator and preservice teacher modeling of evidence-based practices*.
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- Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- RICH, P., RECESSO, A., SHEPHERD, C., POLLY, A., WANG, F., & HANNAFIN, M. (2005, April). *Improving teacher educator and preservice teacher practices through technology-enhanced evidence-based inquiry*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- RECESSO, A., HANNAFIN, M., WANG, DEATON, B., SHEPHERD, C., & RICH, P. (2005, April). *Evidence-based inquiry as a methodology for continuous improvement of practices*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- WANG, F., HANNAFIN, M.J., DEATON, B., SHEPHERD, C., RICH, P., & RECESSO, A. (2005, April). *Design and research on learning support tools in the Evidence-Based Inquiry system*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- KIM, M., & HANNAFIN, M.J. (2005, April). *What factors shape interactions between 7th graders' problem solving?* Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- KIM, H., & HANNAFIN, M. J. (2005, April). *Preservice teachers' case-based reasoning (CBR) and situational understanding in the Web-enhanced CBR learning environment*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- KIM, H., & HANNAFIN, M. J. (2005, April). *Technology-enhanced, situated teacher preparation: A model from learning to teach with technology*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- DEATON, B., RECESSO, A., WANG, F., SHEPHERD, C., RICH, P., & HANNAFIN, M. (2005, March). *Evidence-Based Inquiry: A methodology for the continual improvement of teaching practices*. Paper presented at the annual meeting of the Society for Information Technology and Teacher Education's conference, Phoenix, AZ.
- KIM, M. C., & HANNAFIN, M. J. (2004, October). *Implementing, exploring and advancing online inquiry environments: Opportunities and challenges*. Presented at the annual meeting of Association for Educational Communications and Technology (AECT), Chicago, IL.
- WANG, F., & HANNAFIN, M. J., & RECESSO, A. (2004, October). *Tools in open-ended learning environments: A PT3 practice*. Presented at the annual meeting of Association for Educational Communications and Technology (AECT), Chicago, IL.
- RECESSO, A., HANNAFIN, M., DEATON, B., WANG, F., SHEPHERD, C., RICH, P., & HANNAFIN, K.. (2004, October). *Evidence based inquiry methods*
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- and tools*. Presented at NASA Training for the Future. Johnson Space Center, Houston, TX.
- KIM, M. C., & HANNAFIN, M. J., ADAMS, J., & BRYAN, L. (2004, October). *Contextualizing Web-based inquiry tools: What do teachers say?* Presented at the annual meeting of Association for Educational Communications and Technology (AECT), Chicago, IL.
- WANG, F., & HANNAFIN, M. (2004, April). *Using design-based research in design and research of technology-enhanced learning environments*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- KIM, H., & HANNAFIN, M., & THOMAS, G. (2004, April). *Making preservice teachers experienced: Implications of case-based reasoning (CBR) and redesign of a technology integration course for Web-enhanced CBR*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- KIM, M., & HANNAFIN, M.J., ADAMS, J., & BRYAN, L. (2004, March). *Middle school students' problems solving in Web-based inquiry environments: A case study*. Presented at the annual meeting of the Society for Information Technology in Education, Atlanta, GA
- RECESSO, A, HANNAFIN, M. WANG, F., RICH, P. & SHEPHERD, C. (2004, March). *Evidence-based technology enhanced alternative curriculum in higher education (ETEACH)*. Presented at the Society for Information Technology and Teacher Education (SITE) & National US Department of Education PT3 conference, Atlanta, GA.
- KIM, M., & RICH, P., & HANNAFIN, M.J. (2004, March). *The challenges of teaching with technology tools: Teachers as facilitators of student learning*. Presented at the annual meeting of the Society for Information Technology and Teacher Education (SITE), Atlanta, GA.
- GLAZER, E., & HANNAFIN, M. (2003, April). *The role of reciprocal interactions in supporting technology integration* Presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- HANNAFIN, K.M., HANNAFIN, M.J., & MCCARTHY, J (2003, November). *A framework for scaffolding performance in ADDL environments*. Presented at the E-Learn 2003-World conference, Phoenix, AZ.
- HANNAFIN, K.M., HANNAFIN, M.J., & STACHURA, M. (2003, November). *Evidence-based medicine and the promise of E-learning technologies: A vision for PDA-based decision support*. Presented at the E-Learn 2003-World Conference, Phoenix, AZ.
- WANG, F., & HANNAFIN, M. (2003, November). *Importance of design-based research for technology-enhanced learning environments*. Presented at the E-Learn 2003-World Conference, Phoenix, AZ.
- KIM, M. C., & HANNAFIN, M. J. (2003, October). *Scientific inquiry and Web-based learning environments: Emerging perspectives*. Presented
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- at the annual meeting of Association for Educational Communications and Technology (AECT), Anaheim, CA.
- KIM, M. C., & HANNAFIN, M. J. (2003, October). *Designing Web-enhanced tools to promote scientific inquiry: Grounded design perspectives*. Presented at the annual meeting of Association for Educational Communications and Technology (AECT), Anaheim, CA.
- SULLIVAN, H., REISER, R., & HANNAFIN, M. J. (2003, October). *Mentoring doctoral students in educational technology*. Presented at the annual meeting of Association for Educational Communications and Technology (AECT), Anaheim, CA.
- HILL, J., & HANNAFIN, M.J. (2002, September). *Creating resource-based learning environments: Prospects and challenges*. Presented at the Multimedia Educational Resource for Learning and Online Teaching (MERLOT) International conference, Atlanta, GA.
- SHARMA, P., & HANNAFIN, M.J. (2002, June). *Critical thinking and scaffolding in a technology-mediated environment*. Presented at the annual meeting of the Association for the Advancement of Computers in Education (AACE), Denver, CO.
- BURNETT, R, GAIBLE, E., HANNAFIN, M., MERRILL, D., SPECTOR, M., TINKER, R., VISSER, J., & WILEY, D. (2002, APRIL). *Learning objects technology: Implications for educational research and practice*. Invited panelist at the annual meeting of the American Educational Research Association, New Orleans, LA.
- IYOSHI, T., & HANNAFIN, M. (2002, June). *Cognitive tools and user-centered learning environments: Rethinking tools, functions and applications*. Presented at the International Conference of Educational Multimedia, Hypermedia and Telecommunications, Denver, CO.
- HANNAFIN, M. (2002, May). *Psychological and pedagogical perspectives on intelligent tutoring systems (ITS): Current problems and possible futures*. Presented at DOD Human Factors Engineering Technical Advisory Group (TAG) meeting 47: Integrating Human Performance/Behavior with Training Systems, San Diego, CA.
- HANNAFIN, M. (2001, August). *Facilitating learning AND performance: Issues in cognition and EPSS design*. Keynote talk presented at the 13th annual Instructional Technology Institute, Logan, Utah.
- HANNAFIN, M. (2001, August). *Scaffolding performance in automated support systems*. Presented at the 13th annual Instructional Technology Institute, Logan, Utah.
- HAY, K.E & HANNAFIN, M. (2001, June). *Building understanding through virtual world constructing 3d models and visualizations for learning*. Presented at 1st M.I.T. conference on Computational Fluid and Solid Mechanics, Cambridge, MA.
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- MCCARTHY, J.E., HANNAFIN, M., & RADTKE, P. (2001, April). TRIAD: Tactical Readiness Instruction, Authoring, and Delivery. Presented at the 16th annual conference of the Society for Industrial and Organizational Psychology, San Diego, CA.
- HANNAFIN, M.J., SULLIVAN, H., DICK, W., & WILSON, B. (2000, October). *Objectivism vs. constructivism: A debate*. Presented at the annual meeting of the Association for Educational Communications and Technology, Denver, CO.
- HANNAFIN, M.J. (2000, June). *Evaluating technology effectiveness: The quest for the "new best way."* Presented at the annual meeting of the National Educational Computing conference (NECC), Atlanta, GA.
- REISER, R., HANNAFIN, M.J., FRICK, T., & SULLIVAN, H. (2000, February). *Preparing doctoral students to conduct useful research in the field of educational technology*. Presented at the annual meeting of the Association for Educational Communications and Technology, Long Beach, CA.
- OLIVER, K., SLOTTA, J., & HANNAFIN, M.J. (1999, April). *The utility of computer tools to support students' scientific problem solving*. Presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- HANNAFIN, M.J. (1999, April). *Transitioning to resource-based learning in the new millennium: Prospects and perils*. Invited speaker for the Electronic Networking Special Interest Group at the annual meeting of the American Educational Research Association, Montreal, Canada.
- HANNAFIN, M.J. (1999, February). *Blinded by the light? Research and theory metaphors to live or die by*. Keynote presentation to the Research and Theory Division at the annual meeting of the Association for Educational Communications and Technology, Houston, TX.
- HANNAFIN, M. J. (1999, February). *Learning in open-ended environments: Tools and technologies for the next millennium*. Invited Peter Dean Lecture to the Division of Learning and Performance Environments Division at the annual meeting of the Association for Educational Communications and Technology, Houston, TX.
- HANNAFIN, M.J. (1998, May). *Five myths to live (or die) by*. Invited presentation at the 43rd annual College and University Computer Users Association conference (CUMREC), Atlanta, GA.
- IYOSHI, T., & HANNAFIN, M. J. (1998, April). *Cognitive tools for open-ended learning environments: Theoretical and implementation perspectives*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- HANNAFIN, M.J., LAND, S., & OLIVER, K. (1998, April). *Open learning environments: Foundations, methods, and models*. Presented at the
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- annual meeting of the American Educational Research Association, San Diego, CA.
- IYOSHI, T., OLIVER, K., THUMA, T., JACKSON, D., JACOBSON, M., & HANNAFIN, M.J. (1998, February). *Cognitive tools for web-based learning environments*. Presented at the annual meeting of the Association for Educational Communications and Technology, St. Louis, MO.
- LAND, S., & HANNAFIN, M.J. (1998, February). *Learning in open-ended environments: Problems and issues*. Presented at the annual meeting of the Association for Educational Communications and Technology, St. Louis, MO.
- CHOI, J., & HANNAFIN, M. (1997, March). *Instructional context, reasoning complexity, and mathematics problem solving*. Presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- IYOSHI, T., & HANNAFIN, M.J. (1997, February). *Cognitive tools for open-ended hypermedia learning environments: A case study*. Presented at the annual meeting of the Association for Educational Communications and Technology, Albuquerque, NM.
- LAND, S.M., & HANNAFIN, M. J. (1997, February). *A conceptual framework for the development of theories-in-action with open-ended learning environments*. Presented at the annual meeting of the Association for Educational Communications and Technology, Albuquerque, NM.
- LAND, S., & HANNAFIN, M.J. (1996, April). *The process of developing theories-in-action: A qualitative study*. Presented at the annual meeting of the American Educational Research Association, New York, NY.
- IYOSHI, T., & HANNAFIN, M. J. (1996, February). *Cognitive tools for learning from hypermedia: Empowering learners*. Presented at the annual meeting of the Association for Educational Communications and Technology, Indianapolis, IN.
- LAND, S., & HANNAFIN, M.J. (1996, February). *A conceptual framework for the development of theories, in-action with open-ended learning environments*. Presented at the annual meeting of the Association for Educational Communication and Technology, Indianapolis, IN.
- LAND, S., & HANNAFIN, M.J. (1996, February). *Student-centered learning environments: Foundations, assumptions, and implications*. Presented at the annual meeting of the Association for Educational Communication and Technology, Indianapolis, IN.
- Hill, J. R., & Hannafin, M. J. (1996, February). *Cognitive strategies and the use of a hypermedia information system: An Exploratory Study*. The Association for Educational Communications and Technology. Indianapolis, IN.
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- LAND, S., & HANNAFIN, M.J. (1996, February). *The development of theories-in-action with open-ended learning environments*. Presented at the annual meeting of the Association for Educational Communication and Technology, Indianapolis, IN.
- HILL, J., & HANNAFIN, M.J. (1996, February). *Teaching technology in an open-ended learning environment*. Presented at the annual meeting of the Association for Educational Communication and Technology, Anaheim, CA.
- HILL, J., & HANNAFIN, M.J. (1995, February). *An application of electronic portfolios in assessment: Learning process and product*. Presented at the annual meeting of the Association for Educational Communication and Technology, Anaheim, CA.
- HANNAFIN, M.J. (1994, April). *Assumptions and implications of open-ended computer-based learning environments*. Presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- GALL, J., & HANNAFIN, M.J. (1994, April). *A framework for studying hypertext*. Presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- GAVORA, M., & HANNAFIN, M. J. (1994, February). *Perspectives on the design of interaction strategies*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, Nashville, TN.
- HANNAFIN, M.J. (1994, January). *What you don't know can kill you: 'Need to know' concepts in the use of performance support technologies*. Invited presentation to the Society for Technology in Anesthesia, Orlando, FL.
- HANNAFIN, M.J. (1993, October). *The ecology of distance learning environments*. Presented at Advancements in Integrated Delivery Technologies, USAF Armstrong Laboratories, Denver, CO.
- GAVORA, M., & HANNAFIN, M. J. (1993, April). *A cognitive model of interaction*. Presented at the annual meeting of the American Educational Research Association, Atlanta, GA.
- OSMAN, O., & HANNAFIN, M. J. (1993, January). *The effects of think-ahead questions on learning and retention*. Presented at the annual meeting of the Association for Educational Communication and Technology, New Orleans, LA.
- HANNAFIN, M.J. (1991, March). *Myths, successes, and needs in substance abuse education*. Presented at the seventh annual critical issues symposium, Tallahassee, FL.
- ANGLIN, G., MORRISON, G., SULLIVAN, H., & HANNAFIN, M.J. (1991, February). *Research in instructional technology: Getting started*. Symposium presented at the annual meeting of AECT, Orlando, FL.
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- HANNAFIN, M.J. (1991, February) *Learning environments and emerging technologies*. Presented at the annual meeting of the Association for Educational Communication and Technology, Orlando, FL.
- HANNAFIN, M.J., & GALL, J. (1990, October). *Emerging instructional technologies and learning environments: From instruction- to learner-centered models*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, San Diego, CA.
- KOZMA, R., JOHNSTON, J., BANTZ, D., BATSON, T., CHUTE, D., COVEY, P., GILBERT, S., HANNAFIN, M., JONES, L., SHUELL, T., & TAYLOR, E. (1990, April). *The evaluation of higher education software: The construction of "good software."* Symposium at the annual meeting of the American Educational Research Association, Boston.
- HOOPER, S., & HANNAFIN, M.J. (1990, February). *Directions for effective cooperative learning*. Presented at the annual meeting of the Association for Educational Communication and Technology, Anaheim, CA.
- CARNEY, B., & HANNAFIN, M.J. (1989, November). *The effects of questioning methods and locus of control on learning from computer-based instruction*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, Crystal City, VA.
- HANNAFIN, M.J., & STEYER, T. (1989, November). *The effects of learning objectives on comprehension monitoring during computer-based instruction*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, Crystal City, VA.
- CARRIER, C., DALTON, D., HANNAFIN, M., KOZMA, R., ROBINSON, S., & SALES, G. (1989, April). *The role of research and development centers in producing and disseminating research on educational technology*. A symposium presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- HANNAFIN, M.J., & HOOPER, S. (1989, February). *Perspectives on screen design and layout: An integrated rationale*. Presented at the annual meeting of the Association for Educational Communication and Technology, Dallas, TX.
- HOOPER, S., WARD, T., HANNAFIN, M.J., & CLARK, H.T. (1988, November). *Mediating learning in small groups*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, Philadelphia, PA.
- HOOPER, S., & HANNAFIN, M.J. (1988, April). *Computer-based cooperative learning: The effects of group composition on achievement*. Presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
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- HOOPER, S., & HANNAFIN, M.J. (1988, April). *Empirically-based guidelines for designing interactive video*. Presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- BANGERT-DROWNS, R., HANNAFIN, M.J., JOHNSTON, J., & KOZMA, R. (1988, April). *Higher education software awards program*. Presented at the annual meeting of the International Association for Computing in Education (IACE), New Orleans, LA.
- HOOPER, S., DALTON, D.W., & HANNAFIN, M.J. (1988, January). *Computer integration in the schools: Misconceptions and suggestions*. Presented at the annual meeting of the Association for Educational Communication and Technology, New Orleans, LA.
- HANNAFIN, M.J., & PECK, K.L. (1988, November). *TEACHnology: Creating and modeling innovative uses of technology in teacher education*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, Philadelphia, PA.
- HANNAFIN, M.J., HOOPER, S., & DALTON, D.W. (1987, November) *Computers in education: What's really keeping them out?* Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, Oakland, CA.
- DALTON, D.W., & HANNAFIN, M.J. (1987, November). *The effects of individualistic versus cooperative grouping strategies on student performance and attitudes during computer-assisted instruction*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, Oakland, CA.
- HOOPER, S., & HANNAFIN, M.J. (1987, November). *The effects of ability-based grouping strategies on learning*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, Oakland, CA.
- HANNAFIN, M.J. (1987, April). *Motivational aspects of lesson orientation during CBI*. Presented at the annual meeting of the American Educational Research Association, Washington, DC.
- RIEBER, L.P., & HANNAFIN, M.J. (1987, April). *The effects of textual and animated orienting activities and practice on learning from CBI*. Presented at the annual meeting of the American Educational Research Association, Washington, DC.
- HANNAFIN, M.J., & COLAMAIO, M.E. (1987, April). *The effects of varied instructional control on the learning of facts, procedures, and problem-solving skills from interactive video*. Presented at the annual meeting of the American Educational Research Association, Washington, DC.
- PHILLIPS, T.L., HANNAFIN, M.J., & TRIPP, S. (1987, April). *The effects of practice and orienting activities on the learning of factual information and application skills during an interactive video lesson*. Presented at
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- the annual meeting of the American Educational Research Association, Washington, DC.
- HANNAFIN, M.J. (1987, March). *The role of practice versus cueing during computer-based instruction*. Presented at the annual meeting of the Association for Educational Communication and Technology, Atlanta, GA.
- HANNAFIN, M.J., & COLAMAIO, M. (1987, March). *The effects of locus of instructional control and practice on learning from interactive video*. Presented at the annual meeting of the Association for Educational Communication and Technology, Atlanta, GA.
- RIEBER, L.P., & HANNAFIN, M.J. (1987, March). *The effects of computer animated orienting activities on application and problem solving skills in an elementary science lesson: An exploratory study*. Presented at the annual meeting of the Association for Educational Communication and Technology, Atlanta, GA.
- PHILLIPS, T.L., & HANNAFIN, M.J. (1987, March). *The effects of practice and orienting activities on learning from an interactive video lesson*. Presented at the annual meeting of the Association for Educational Communication and Technology, Atlanta, GA.
- HANNAFIN, M.J., & COLAMAIO, M. (1986, November). *The effects of locus of instructional control and practice on learning from interactive video*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, Washington, DC.
- SWADENER, M., & HANNAFIN, M.J. (1986, November). *Similarities and differences in sixth graders' attitudes toward computers: An exploratory study*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, Washington, DC.
- PHILLIPS, T.L., & HANNAFIN, M.J. (1986, November). *Beyond tape versus disc: Issues in the design of interactive video*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, Washington, DC.
- PHILLIPS, T.L., HANNAFIN, M.J., & TRIPP, S. (1986, November). *The effects of practice and orienting activities on learning in an interactive video lesson*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, Washington, DC.
- RIEBER, L.P., & HANNAFIN, M.J. (1986, November). *The effects of textual and computer animated orienting activities and practice on the acquisition of application and problem solving skills in a computer-based instruction lesson*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, Washington, DC.
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- RIEBER, L.P., & HANNAFIN, M.J. (1986, November). *The evolution of computer-based instruction: Behavioral to cognitive*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, Washington, DC.
- GARHART, C., & HANNAFIN, M.J. (1986, April). *The relationship between comprehension estimates and the learning of facts and inferences*. Presented at the annual meeting of the American Educational Research Association, San Francisco.
- HANNAFIN, M.J., PHILLIPS, T.L., RIEBER, L.P., & GARHART, C. (1986, April). *The effects of cognitive processing time and orienting strategies on factual and inferential learning during CBI*. Presented at the annual meeting of the American Educational Research Association, San Francisco.
- HANNAFIN, M.J., & STREISEL, A. (1986, February). *The effects of orienting strategies and practice on the learning of cued and uncued information*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, New Orleans.
- HANNAFIN, M.J., PHILLIPS, T.L., RIEBER, L.P., & GARHART, C. (1986, February). *The effects of orienting strategies and cognitive processing time on factual and inferential learning*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, New Orleans.
- DALTON, D., & HANNAFIN, M.J. (1986, February). *Getting started with interactive video*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, New Orleans.
- GARHART, C., & HANNAFIN, M.J. (1986, February). *The accuracy of cognitive monitoring during computer-based instruction*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, New Orleans.
- HANNAFIN, M.J., & HUGHES, C. (1986, February). *Integrating orienting activities in the design of interactive video*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, New Orleans.
- DALTON, D., & HANNAFIN, M.J. (1986, February). *Effects of video-only, CAI only, and interactive video instructional systems on learner performance and attitude: An exploratory study*. Presented at the annual meeting of the Association for Educational Communication and Technology, Las Vegas.
- HANNAFIN, M.J., PHILLIPS, T.L., RIEBER, L.P., & GARHART, C. (1986, January). *The effects of presentation latency and embedded orienting strategies on learning from computer-based instruction*. Presented at the annual meeting of the Association for Educational Communication and Technology, Las Vegas.
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- HANNAFIN, M.J. (1986, January). *Research in instructional design*. Presented at the annual meeting of the Association for Educational Communication and Technology, Las Vegas.
- HANNAFIN, M.J. (1985, April). *Instructional explicitness, learning, and error persistence*. Presented at the annual meeting of the American Educational Research Association, Chicago.
- HANNAFIN, M.J. (1985, April). *Examining the empirical assumptions of computer-based instructional technology*. Presented at the annual meeting of the American Educational Research Association, Chicago.
- REISER, R., & HANNAFIN, M.J. (1985, January). *Alternative approaches for doctoral student research*. Presented at the annual meeting of the Association for Educational Communication and Technology, Anaheim, CA.
- HANNAFIN, M.J., & STONE, C. (1985, March). *Research methods for the study of interactive video*. Presented at the annual meeting of the Association for the Development of Computer-Based instructional Systems, Philadelphia.
- GARHART, C., & HANNAFIN, M.J. (1985, March). *Interactive video as an instructional medium: A look at related research*. Presented at the annual meeting of the Association for the Development of Computer-Based Instructional Systems, Philadelphia.
- SCHAFFER, L.C., & HANNAFIN, M.J. (1985, March). *Progressive interactivity and learning from interactive video*. Presented at the annual meeting of the Association for Educational Communication and Technology, Anaheim, CA.
- DALTON, D., & HANNAFIN, M.J. (1985, March). *Examining the effects of varied computer-based reinforcement on self-esteem and achievement: An exploratory study*. Presented at the annual meeting of the Association for Educational Communication and Technology, Anaheim, CA.
- GOETZFRIED, L.E., & HANNAFIN, M.J. (1985, January). *The effects of adaptive, advisement, and linear CAI control strategies on the learning of mathematics rules*. Presented at the annual meeting of the Association for Educational Communication and Technology, Anaheim, CA.
- SCHAFFER, L., & HANNAFIN, M.J. (1984, April). *The effects of systematically varied interactivity on learning from interactive video*. Presented at the annual conference of the American Educational Research Association, New Orleans.
- PECK, K.L., & HANNAFIN, M.J. (1984, April). *Student perceptions on the value and functions of notetaking*. Presented at the annual conference of the American Educational Research Association, New Orleans.
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- HANNAFIN, M.J. (1984, January). *The relative effectiveness of pictures versus words in conveying abstract and concrete prose*. Presented at the annual conference of the Association for Educational Communications and Technology, Dallas.
- HANNAFIN, M.J., & COLE, D.D. (1983, April). *To take or not to take-- an examination of the perceptions and misperceptions of students towards high school computer coursework*. Presented at the annual conference of the American Educational Research Association, Montreal.
- HANNAFIN, M.J., & COLE, D.D. (1983, January). *A comparison of factors affecting elective participation in computer coursework*. Presented at the annual conference of the Association for Educational Communications and Technology, New Orleans.
- PECK, K.L., & HANNAFIN, M.J. (1983, January). *The effects of videotaped instruction in notetaking and the recording of notes on retention of oral prose*. Presented at the annual conference of the Association for Educational Communications and Technology, New Orleans.
- HANNAFIN, M.J., & WITT, J.C. (1983, April). *Immediate, sustained, and cumulative effects of an instructional system on mathematics achievement*. Presented at the annual conference of the American Educational Research Association, Montreal.
- WITT, J.C., HANNAFIN, M.J., & MARTENS, B.K. (1982, May). *The use of home-based reinforcement and parent training to improve academic performance*. Presented at the annual conference of the Association for Behavior Analysis, Milwaukee, WI.
- HANNAFIN, M.J. (1982, April). *Student attitude and instructional locus of control*. Presented at the annual conference of the Association for Educational Communications and Technology, Dallas.
- HANNAFIN, M.J. (1982, April). *An analysis of the consistency and effects of reported learning strategy use by third- and fourth graders*. Presented at the annual conference of the Association for Educational Communications and Technology, Dallas.
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- Guest Editor, Special issue on alternative perspectives on the design of computer-mediated learning environments, *EDUCATIONAL TECHNOLOGY RESEARCH AND DEVELOPMENT*, [1992, 40(1)]
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