

Peter F. Haddawy

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Citizenship

U.S.A.

Current Positions

Professor
Computer Science and Information Management
Asian Institute of Technology

Visiting Senior Scientist
Department of Electrical Engineering and Computer Science
University of Wisconsin-Milwaukee
Milwaukee, Wisconsin

Adjunct Professor
Department of Radiology
Section of Information and Decision Sciences
Medical College of Wisconsin

Research Interests

Decision-Theoretic Problem Solving, Probabilistic Reasoning, Modeling of User Preferences, Electronic Commerce, Medical Decision Making.

Academic Degrees

Doctor of Philosophy, Department of Computer Science
University of Illinois at Urbana-Champaign, August 1991.

Master of Science, Department of Computer Science
University of Illinois at Urbana-Champaign, December 1986.

Bachelor of Arts, Department of Mathematics
Pomona College, Claremont, California, May 1981

Honors

Graduate School/Univ. of Wisconsin-Milwaukee Foundation Research Award, 1999.

Fulbright Fellow, National Institute of Development Administration, Bangkok, Thailand, Spring 1997.

Outstanding research award, College of Engineering and Applied Science, University of Wisconsin-Milwaukee, 1997.

Listed in Marquis *Who's Who in Science and Engineering*, 1995 - present.

Nominated for ACM Doctoral Dissertation Award, 1992.

Shell Oil Company Fellow, 1990-91.

Cognitive Science/Artificial Intelligence Fellow, (awarded three times)
University of Illinois, 1989-90, 1988-89 and 1987-88.

Avery-Brundage Scholar, University of Illinois, 1988-89.

University Summer Fellow, University of Illinois, 1989.

Member Tau Beta Pi, Phi Kappa Phi honor societies.

Positions Held

Associate Professor, May 2000 – April 2005
Computer Science and Information Management
Asian Institute of Technology

Associate Professor (with tenure), 1996 – 2002.
Department of Electrical Engineering and Computer Science
University of Wisconsin-Milwaukee
Milwaukee, Wisconsin

Assistant Professor, 1991 – 1996.
Department of Electrical Engineering and Computer Science
University of Wisconsin-Milwaukee
Milwaukee, Wisconsin

Computer Scientist, Summer 1987.
Advanced Decision Systems
Mountain View, California

Research Associate, October 1983 – August 1984, and Summer 1985.
Technical University of Munich
Munich, Germany

Systems Engineer, August 1982 – October 1983.
Compatible Information Systems Division
Nixdorf Computer AG, Munich, Germany

Software Engineer, November 1981 – May 1982.
Atmospheric Sciences Center
Desert Research Institute, Reno, Nevada

Professional Activities

Member editorial board *International Journal of Information Technology and Decision Making*, Feb 2001 – present.

Program Committees 2006: Meta-reviewer for Int'l Conf. on Intelligent User Interfaces.

Member organizing committee, AAAI 2005 Spring Symposium on Challenges to Decision Support in a Changing World, Stanford University.

Member Binational Selection Committee for the 2005 Fulbright-Thailand Research Fund Junior Research Scholarship Program.

Program Committees 2005: Meta-reviewer for International Conference on Intelligent User Interfaces; Program committee member Conference on Uncertainty in Artificial Intelligence, Pacific-Asia Conference on Knowledge Discovery and Data Mining, UM 2005 Workshop on Personalization for e-Health.

Member Executive Board of the U.S. Committee for Scientific Cooperation with Vietnam, since 1997.

Program committees 2004: Joint Conference on Intelligent User Interfaces and Computer-Aided Design of User Interfaces ACM IUI-CADUI'2004, Conference on Uncertainty in Artificial Intelligence.

Member Advisory Panel for Information Technology Research Program, National Science Foundation, USA, May 2003.

External dissertation examiner, National University of Singapore, 2003.

Program Chair, Regional Conference on Digital GMS, 2003.

Reviewing 2003: Research Grants Council of Hong Kong, *Computational Intelligence*.

Program committees 2003: International Conf. on Intelligent User Interfaces, Conf. on Uncertainty in Artificial Intelligence, International Conference on Intelligent Technologies, International Conference on Advanced Topics in Information Technology, International Conference on Information Technology Prospects and Challenges in the 21st Century.

Program committees 2002: National Conf. on Artificial Intelligence (AAAI), AAAI Workshop on Preferences in Artificial Intelligence, International Conf. on Intelligent User Interfaces, Conf. on Uncertainty in Artificial Intelligence, International Workshop on Agents for Business Automation (as part of the International Conference on Internet Computing).

External dissertation examiner, National University of Singapore, 2002.

Reviewer, Netherlands Organization for Scientific Research, 2002.

Reviewer for AAAI-2002 workshop proposals.

Program committees 2001: First International Conf. on Knowledge Capture, International Joint Conf. on Artificial Intelligence, Conf. on Uncertainty in Artificial Intelligence, European Conference on AI in Medicine workshop on Bayesian Models in Medicine.

Area chair, Conf. on Uncertainty in Artificial Intelligence, 2000.

Program Committees 2000: Int'l Conf. on Artificial Intelligence Planning Systems.

Crafted collaborative Ph.D. program in Computer Science between the University of Wisconsin-Milwaukee and Assumption University, Bangkok, Spring 2000.

Program committees 1999: Int'l Joint Conf. on Artificial Intelligence, Nat'l Conf. on Artificial Intelligence, Conf. on Uncertainty in Artificial Intelligence, TIME99 Int'l Workshop on Temporal Representation and Reasoning.

Program committees 1998: Nat'l Conf. on AI, Conf. on Uncertainty in AI, Int'l Conference on AI Planning Systems, Int'l Conf. on Principles of Knowledge Representation and Reasoning.

Co-Chair, AAAI Stanford Spring Symposium on Interactive and Mixed-Initiative Decision-Theoretic Systems, 1998.

Applications Lead, Internet2 project, UWM, Fa97 – Sp2000.

Organized the Information Technology section of the U.S./Vietnam Science & Technology Week, held in Hanoi in January 1999. The purpose of the symposium was to discuss formation of collaborative research projects between the two countries.

Crafted joint MS program in Computer Science between the University of Wisconsin-Milwaukee and Assumption University, Bangkok, fall 1997.

Program committees 1997: National Conference on Artificial Intelligence; Conference on Uncertainty in Artificial Intelligence; AAAI Workshop on Abstraction, Decisions, and Uncertainty; TIME97 International Workshop on Temporal Representation and Reasoning.

National Science Foundation proposal review panel, 1997.

Program committees 1996: National Conference on Artificial Intelligence; TIME96 International Workshop on Temporal Representation and Reasoning; FLAIRS-96 Special Track on Uncertain Reasoning.

Faculty advisor for UWM chapter of Tau Beta Pi, 1995 - 2000.

Program committees 1995: Conference on Uncertainty in Artificial Intelligence; TIME-95 International Workshop on Temporal Representation and Reasoning.

Session chair at the AAAI Spring Symposium on Decision-Theoretic Planning, March 1994.

Program committees for the TIME-94 International Workshop on Temporal Representation and Reasoning.

National Science Foundation Research Incentive Program review panel, 1993.

Conceived and co-chaired the Illinois Interdisciplinary Workshop on Decision Making, 1988.

Reviewer for: National Science Foundation, NASA Intelligent Systems Program, Fulbright Foundation, Research Grants Council of Hong Kong, *Journal of the ACM*, *Journal of Artificial Intelligence*, *Journal of Artificial Intelligence Research*, *Information and Computation*, *Journal of Experimental and Theoretical Artificial Intelligence*, *IEEE Transactions on Systems, Man, and Cybernetics*, *International Journal of Expert Systems: Research and Applications*, 1991, 1992, & 1993
Conference on Uncertainty in Artificial Intelligence, 1993 & 1995 International Joint Conference on Artificial Intelligence, 1994 European Conference on Artificial Intelligence, 1997 AMIA Fall Symposium.

Service to AIT

Chair, Information Technology Steering Committee, AIT, May 2002 – June 2003.
Responsible for IT policy and planning, overseeing operation of ITServ, communication with faculty and students, and communicating AIT's IT-related activities to the outside.

Program Leader, AIT Reform Process Program IIa: Install System for the Review of Academic Programs, and Program IIb: Install System for the External Review of Faculty, 2002.

The guidelines from both task forces have become official P&P for AIT. The external review of faculty has been implemented but not the review of academic programs. I was responsible for communication with faculty and writing the reports, which consisted of analysis of existing procedures at AIT, survey of practices at other universities, and recommendations for new procedures at AIT. I was also involved in writing the initial drafts of the P&P.

Chair, MIS Unit implementation task force, 2001.

Member, DPRC, 2002.

Society Memberships

Association for Computer Machinery
American Association for Artificial Intelligence

Invited Talks

4th International Symposium on Problem-Based Learning in Dental Education, Keynote Address: Automated Tutoring in Medical Problem-Based Learning, October 2005.

Erasmus Research Institute of Management, Erasmus University, "Simulating and Optimizing B2B Trade in Barter Trade Exchanges", October, 2004.

Radcliffe Center for Advanced Study, Harvard University, "Using Prior Knowledge to Facilitate Preference Elicitation", May 2004.

National University of Singapore, April 2004.

University of Illinois-Urbana, "Preference Elicitation via Theory Refinement", May 2003.

ComTech Thailand 2002, Bangkok, Keynote Address: "E-Marketplace Economies: A Personalized Perspective", October 2002.

CAN Info Tech 2001, Kathmandu, Nepal, "The Developing E-Business Technology Infrastructure" and "Bayesian Belief Networks Tutorial", January 2001.

AIPS2000 Workshop on Decision-Theoretic Planning, "Preference Elicitation for Decision-Theoretic Planning", Breckenridge Colorado, April 2000.

Kasetsart Univeristy, Bangkok, Thailand, "Bayesian Belief Networks", December 2000.

University of Wisconsin-Madison, "Decision-Theoretic Planning", March 2000.

National Computer Science and Engineering Conference, Bangkok, Thailand, "Bayesian Networks", December 1999.

Fifteenth Conference on Uncertainty in Artificial Intelligence panel on Directions in Decision-Theoretic Planning, July 1999.

Institute of Information Technology, Hanoi, Vietnam, Nov 1998.

National University of Singapore, "Case-Based Preference Elicitation", Oct 1998.

Asian Institute of Technology, Bangkok, Thailand, June 1997.

National University of Singapore, June 1997.

Prince of Songkla University, Hat Yai, Thailand, May 1997.

Institute of Information Technology, Hanoi, Vietnam, May 1997.

Naresuan University, Phitsanulok, Thailand, "Medical Decision Making", April 1997.

KhonKaen University, KhonKaen, Thailand, ``New Technologies for Decision Support Systems'', February 1997.

Japan Advanced Institute of Science and Technology, ``Temporal Reasoning with Context-Sensitive Probability Logic'', August 1996.

AAAI Spring Symposium on Artificial Intelligence in Medicine, ``The Role of Decision-Theoretic Techniques in Medical Care'', March 1996.

University of Indonesia, Jakarta, ``Practical Decision-Theoretic Planning'', July 1995.

Mahidol University, Bangkok, ``Decision-Theoretic Refinement Planning: A New Approach to Medical Decision-Making'', July 1995.

Keynote speaker at the TIME-95 International Workshop on Temporal Representation and Reasoning, April 1995.

AAAI Spring Symposium on Extending Theories of Action panel on Computational Issues in Action, March 1995.

Univ. of Wisconsin-Milwaukee CEAS/WAC Faculty Workshops, ``Incorporating writing and communication skills into graduate curriculum'', 1995.

Marquette Electronics, Inc, Milwaukee, Wisconsin, Nov 1994.

AAAI Spring Symposium on Decision-Theoretic Planning panel on abstraction, March 1994.

University of Wisconsin, Madison, Nov 1993.

National Center for Scientific Research of Vietnam, Hanoi, Vietnam, *lecture series*: Dec 1992 - Jan 1993. Sponsored by UNESCO.

HoChiMinh City University, HoChiMinh City, Vietnam, Jan 1993. Sponsored by UNESCO.

University of Wisconsin, Madison, Oct 1992.

Washington University, St. Louis, Nov 1991.

University of Wisconsin, Madison, Oct 1991.

AAAI workshop on knowledge-based construction of probabilistic and decision models, July 1991.

Grants

Royal Thai Government Joint Research Project, "A Collaborative Intelligent Tutoring System for Medical Problem-Based Learning", Sept 2004 – Aug 2005, 942,500 Baht.

Royal Thai Government Joint Research Project, "Computer-Aided Learning Program for Health Professional Students in Diabetes Patient History Taking", Sept 2004 – Aug 2005, 156,000 Baht.

Royal Thai Government Joint Research Project, "Automated Brokering for B2B E-Commerce", May 2002 – April 2003, 950,000 Baht.

Asia IT&C Program, European Commission, "Development and delivery of innovative user tailored master level courses in Mechatronics using multimedia and teleteaching approaches (Asia IN-MEM)", April 2002 – March 2005, 200,000 Euros, (Role: project participant representing AIT).

Research Experience for Undergraduates (REU) supplement to NSF campus vBNS grant, Sept 2000 - Sept 2001, \$10,000 total.

Campus Opportunity Fund, UWM, "Supporting Collaborative Research and Education over Distance: Videoconferencing over the vBNS", 1999-2000 academic year, \$46,000.

Center for Great Lakes Studies Faculty Scholars Program, UWM, "Virtual Phytoplankton: Modeling Locomotion and Interaction in Flagellated Phytoplankton", Spring 1999, \$6,000.

Air Force Research Laboratory, "Uncertainty Management for Campaign Assessment", Dec 1997 - Sept 1998, \$40,000. Supplement Feb 1999 - Sept 1999, \$45,000.

National Science Foundation, "United States/Vietnam: Science and Technology Week, 1998", Co-PI with Judith Ladinsky, \$25,000.

Rockwell International Corp., "Belief Net Inference", July 1996, \$20,000.

Rockwell International Corp., "Temporal Belief Networks and Knowledge-Based Model Construction", July 1996, \$23,500.

Will Ross Memorial Foundation and Medical College of Wisconsin Cancer Center, "Evaluation of a Bayesian-Network Decision Aid for Mammographic Diagnosis of Breast Cancer", January 1996 – December 1996, \$6,260 total, (Co-PI with Charles Kahn).

University of Wisconsin-Milwaukee Graduate School Research Committee, "Intelligent Control of Computer Vision", July 1996 to June 1997, \$9,859 total.

National Science Foundation, "Practical Decision-Theoretic Planning", Sept 1995 to December 1998, \$244,130 total.

Research Experience for Undergraduates (REU) supplement to NSF grant, Sept 1995 - Sept 1996, \$10,000 total.

Equipment supplement to NSF grant, Sept 1995 - Sept 1996, \$10,125 total.

Sun Microsystems Academic Equipment Grant, "Evaluation of Mammographic Findings: Clinical and Pedagogical Tools", March 1995, \$40,000 worth of computing equipment.

Collaborator with Dr. Charles Kahn on Whitaker Foundation Grant, "A Case-Based Approach to Selection of Diagnostic Imaging Procedures", July 1995 - June 1998, subcontract: \$41,100.

University of Wisconsin-Milwaukee Graduate School Research Incentive Grant, "Evaluation of Mammographic Findings: Clinical and Pedagogical Tools", course buyout for fall semester 1995-96.

National Science Foundation, "Decision-Theoretic and Symbolic Planning", July 1992 to December 1995, \$117,382 total.

University of Wisconsin-Milwaukee Graduate School Research Committee, "A Logic for Decision-Theoretic Planning", July 1992 to June 1993, \$8453 total.

University of Wisconsin-Milwaukee Graduate School Research Incentive Grant, "Quantified Bayesian Networks for Robust Decision Support", course buyout for fall semester 1992-93.

General Electric Teaching Incentive Grant, 1989, \$5,000 total.

Publications

Citations

The CiteSeer Scientific Literature Digital Library (<http://citeseer.nj.nec.com/cs>) lists 478 citations to my published work by authors other than myself. This can be checked by going to the website and entering the search string: "Haddawy or Haddaway", which takes into account the common misspelling of my name.

Books

P. Haddawy. *Representing Plans Under Uncertainty: A Logic of Time, Chance, and Action*, vol 770 of *Lecture Notes in Artificial Intelligence*. Springer-Verlag, Berlin, 1994.

Journal Articles

P. Haddawy, C. Cheng, N. Rujikeadkumjorn, K. Dhananaiyapergse, Optimizing Ad Hoc Trade in a Commercial Barter Trade Exchange. To appear in *Electronic Commerce Research and Applications*, 2005.

S. Suebnukarn and P. Haddawy, A Bayesian Approach to Generating Tutorial Hints in a Collaborative Medical Problem-Based Learning System. To appear in *Artificial*

Intelligence in Medicine, 2005. (Special Issue on Intelligent Medical Training Systems.)

V. Ha and P. Haddawy. Similarity of Personal Preferences: Theoretical Foundations and Empirical Analysis, *Artificial Intelligence*, 146(2):149-173, June 2003.

P. Haddawy, V. Ha, A. Restificar, B. Geisler, and J. Miyamoto. Preference Elicitation via Theory Refinement, *Journal of Machine Learning Research*, 4(2003): 317-337, July 2003.

P. Haddawy. An overview of some recent developments in Bayesian problem solving techniques, *AI Magazine*, 20(2):11-19, Summer 1999.

D. Yu, T. Nguyen and P. Haddawy. A Bayesian Network Model for Reliability Assessment of Power Systems, *IEEE Transactions on Power Systems*, 14(2):426-432, May 1999.

V. Ha, A. Doan, V.H. Vu and P. Haddawy. Geometric Foundations for Interval-Based Probabilities, *Annals of Mathematics and Artificial Intelligence*, 24(1-4):1-21, 1998.

P. Haddawy and S. Hanks, Utility Models for Goal-Directed Decision-Theoretic Planners, *Computational Intelligence*, 14(3):392-429, 1998.

L. Ngo and P. Haddawy. Answering Queries from Context-Sensitive Probabilistic Knowledge Bases, *Theoretical Computer Science*, 171(1-2):147-177, 1997.

CE Kahn Jr., LM Roberts, KA Shaffer and P Haddawy. Construction of a Bayesian network for mammographic diagnosis of breast cancer, *Computers in Biology and Medicine*, vol 27, pp 19-29, 1997.

P. Haddawy, J. Jacobson and C.E. Kahn Jr. BANTER: A Bayesian Network Tutoring Shell, *Artificial Intelligence in Medicine*, 10(2):177-200, June 1997.

L. Ngo, P. Haddawy, J. Helwig and B. Krieger, Efficient Temporal Probabilistic Reasoning Via Context-Sensitive Model Construction, *Computers in Biology and Medicine* (Special issue on time-oriented systems in medicine), 27(5):453-476, 1997.

P. Haddawy, A. Doan and C.E. Kahn Jr. Decision-theoretic refinement planning in medical decision making: Management of acute deep venous thrombosis, *Medical Decision Making*, 16(4):315-325, Oct/Dec 1996.

P. Haddawy. Focusing Attention in Anytime Decision-Theoretic Planning, *SIGART Bulletin*, 7(2):34-40, April 1996.

P. Haddawy. Believing Change and Changing Belief, *IEEE Transaction on Systems, Man, and Cybernetics*, 26(5):385-396, May 1996.

P. Haddawy. A Logic of Time, Chance, and Action for Representing Plans, *Artificial Intelligence*, 80(2):243-308, Feb 1996.

P. Haddawy, C.E. Kahn, Jr. and M. Butarbutar. A Bayesian Network Model for Radiological Diagnosis and Procedure Selection: Work-up of Suspected Gallbladder Disease, *Medical Physics*, 21(7):1185-1192, July 1994.

A.M. Frisch and P. Haddawy. Anytime Deduction for Probabilistic Logic, *Artificial Intelligence*, 69(1-2):93-122, Sept 1994.

P. Haddawy and L. Rendell. Planning and Decision Theory, *The Knowledge Engineering Review*, 5(1):15-33, 1990.

Papers in Books

P. Haddawy. Time, Chance, and Action, In P.P. Bonissone, M. Henrion, L.N. Kanal and J.F. Lemmer, editors, *Uncertainty in Artificial Intelligence 6*. Elsevier Science Publishers, Amsterdam, 1991.

P. Haddawy and A.M. Frisch. Modal Logics of Higher-Order Probability, In R. Shachter, T.S. Levitt, J. Lemmer and L.N. Kanal, editors, *Uncertainty in Artificial Intelligence 4*. Elsevier Science Publishers, Amsterdam, pp 133-148, 1990.

Conference Papers

P. Haddawy, Matthew Dailey, Ploen Kaewruen, and Natapope Sarakhette, Anatomical Sketch Understanding: Recognizing Explicit and Implicit Structure, To appear in *Proc. 10th Conference on Artificial Intelligence in Medicine*, Aberdeen, UK, July 2005.

Siriwan Suebnukarn and P. Haddawy, Clinical-Reasoning Skill Acquisition through Intelligent Group Tutoring, To appear in *Proc. Int'l Joint Conference on Artificial Intelligence (IJCAI-05)*, Edinburgh, UK, July 2005.

Siriwan Suebnukarn and P. Haddawy, Modeling Individual and Collaborative Problem Solving in Medical Problem-Based Learning, To appear in *Proc. 10th Int'l Conference on User Modeling (UM'2005)*, Edinburgh, UK, July 2005.

P. Haddawy, C. Cheng, N. Rujikeadkumjorn, K. Dhananaiyapergse, Balanced Matching of Buyers and Sellers in E-Marketplaces: The Barter Trade Exchange Model, In *Proc. Sixth International Conference on Electronic Commerce*, Delft, Netherlands, Oct 2004.

P. Haddawy, K. Dhananaiyapergse, Y. Kaewpitakkun, T. Bui, Data-Driven Agent-Based Simulation of Commercial Barter Trade, In *Proc. IEEE/WIC/ACM International Conference on Intelligent Agent Technologies*, Beijing, Sept 2004.

Phan Thanh Duc and P. Haddawy, A Modular Approach to E-Learning Content Creation and Maintenance, In *Proc. of the 3rd International Conference on Web-Based Learning*, Beijing, August 2004.

Angelo Restificar and P. Haddawy, Inferring Utilities from Negotiation Actions. In *Proc. International Symposium on Artificial Intelligence and Mathematics*, Fort Lauderdale, Jan 2003.

Siriwan Suebnukarn and P. Haddawy, A Collaborative Intelligent Tutoring System for Medical Problem-Based Learning. In *Proc. International Conference on Intelligent User Interfaces*, Madeira, Portugal, Jan 2003.

Siriwan Suebnukarn and P. Haddawy, Intelligent Tutoring for Medical Problem-Based Learning: Student Clinical Reasoning Model. In *Proc. Joint International Conference on Cognitive Science*, Sydney, Australia, July 2003.

R. Manandhar and P. Haddawy, E-commerce Infrastructure in the GMS: Current State and Future Prospects. In *Proc. The Regional Conference on Digital GMS*, AIT, Feb 2003.

Jantima Polpinij, Chuleerat Jaruskulchai, P. Haddawy. Factors Affecting Automobile Insurance Risk in Thailand Analyzed by Bayesian Network. In *Proc. InTech/VJFuzzy'2002*, Hanoi, December 2002.

Jantima Polpinij, Chuleerat Jaruskulchai, P. Haddawy. A Bayesian Classification Approach to Personal Automotive Marketing Analysis. In *Proc. 17th International Conference on Computers and Their Applications*, San Francisco, April 2002.

V. Ha and P. Haddawy. Similarity Measures on Preference Structures Part II: Utility Functions. In *Proc. Seventeenth Conference on Uncertainty in Artificial Intelligence*, Seattle, August 2001.

B. Geisler, V. Ha, and P. Haddawy. Modeling User Preferences via Theory Refinement. In *Proc. 2001 International Conference on Intelligent User Interfaces*, Santa Fe, January 2001.

C. Theetranont and P. Haddawy, Visualizing Product Spaces for Online Shopping. In *Proc. NSCEC-2001*, Chiang Mai, Thailand, Nov 2001.

K. Sapmanee and P. Haddawy, Probabilistic Distance Measure Algorithm Implementation and Evaluation. In *Proc. International Conference on Intelligent Technologies*, Bangkok, Thailand, Nov 2001. **(Best Student Paper Award)**

J. Polpinij, C. Jaruskulchai, and P. Haddawy, A Probabilistic Analysis of Factors Affecting Consumer Purchase of Insurance Policies. In *Proc. International Conference on Intelligent Technologies*, Bangkok, Thailand, Nov 2001.

P. Moemeng, S. Thammarojsakul, P. Haddawy and S. Promnart. A Bayesian network model for flood prediction in the Chaophraya river basin. In *Proceeding of the 1999 National Computer Science and Engineering Conference*, pp 101-107, Bangkok, Thailand, December, 1999.

T. Doan, P. Haddawy, T. Nguyen and D. Seetharam. A hybrid Bayesian network modeling environment, In *Proceeding of the 1999 National Computer Science and Engineering Conference*, pp 62-66, Bangkok, Thailand, December, 1999.

S. Sundaresh, P. Haddawy, T.Z. Leong, and K.L. Poh. Multi-level multi-perspective reasoning, In *Proceeding of the 1999 National Computer Science and Engineering Conference*, Bangkok, Thailand, December, 1999.

S. Sundaresh, T.Y. Leong, and P. Haddawy. Supporting Multi-level multi-perspective dynamic decision making in medicine, In *Proceedings of the AMIA 1999 Annual Symposium*, pp 161-165, Washington, DC, November 1999.

H. Nguyen and P. Haddawy. The Decision-Theoretic Interactive Video Advisor, In *Proceedings of the Fifteenth Conference on Uncertainty in Artificial Intelligence*, Stockholm, Sweden, July 1999.

V. Ha and P. Haddawy. A Hybrid Approach to Reasoning with Partially Elicited Preference Models, In *Proceedings of the Fifteenth Conference on Uncertainty in Artificial Intelligence*, Stockholm, Sweden, July 1999.

V. Ha and P. Haddawy. Toward Case-Based Preference Elicitation: Similarity Measures on Preference Structures, In *Proceedings of the Fourteenth Conference on Uncertainty in Artificial Intelligence*, pp 193-201, Madison, Wisconsin, July 1998.

L. Ngo, P. Haddawy and H. Nguyen. A Modular Structured Approach to Conditional Decision-Theoretic Planning, In *Proceedings of the Fourth International Conference on Artificial Intelligence Planning Systems*, pp 111-118, Pittsburgh, June 1998.

V. Ha and P. Haddawy. Geometric Foundations for Interval-Based Probabilities, In *Proceedings of the 6th International Conference on Principles of Knowledge Representation and Reasoning*, pp 582-593, Trento, Italy, June 1998.

V. Ha and P. Haddawy. Problem-Focused Incremental Elicitation of Multi-Attribute Utility Models, In *Proceedings of the Thirteenth Conference on Uncertainty in Artificial Intelligence*, pp 215-222, August 1997.

L. Ngo and P. Haddawy. A Knowledge-Based Model Construction Approach to Medical Decision Making, In *Proceedings of the 20th Annual AMIA Fall Symposium* (formerly SCAMC), pp 254-258, Washington, D.C., October 1996.

A. Doan and P. Haddawy. Sound Abstraction of Probabilistic Actions in the Constraint Mass Assignment Framework, In *Proceedings of the Twelfth Conference on Uncertainty in Artificial Intelligence*, pp 228-235, Portland, August 1996.

V. Ha and P. Haddawy. Theoretical Foundations for Abstraction-Based Probabilistic Planning, In *Proceedings of the Twelfth Conference on Uncertainty in Artificial Intelligence*, pp 291-298, Portland, August 1996.

L. Ngo and P. Haddawy. Probabilistic Logic Programming and Bayesian Networks, In *Algorithms, Concurrency and Knowledge* (Proceedings ACSC95), pp 286-300, Pathumthani, Thailand, Lecture Notes in Computer Science, vol 1023, Springer-Verlag, December 1995.

A. Doan, P. Haddawy and C.E. Kahn, Jr., Decision-Theoretic Refinement Planning: A New Method for Clinical Decision Analysis, In *Proceedings of the 19th Annual Symposium on Computer Applications in Medical Care (SCAMC95)*, pp 299-303, New Orleans, October 1995.

P. Haddawy, J.W. Helwig, L. Ngo and R. Krieger. Clinical Simulation using Context-Sensitive Temporal Probability Models, In *Proceedings of the 19th Annual Symposium on Computer Applications in Medical Care (SCAMC95)*, pp 203-207, New Orleans, October 1995.

C.E. Kahn, Jr, L. Roberts, K. Wang, D. Jenks and P. Haddawy. Preliminary Investigation of a Bayesian Network for Mammographic Diagnosis of Breast Cancer, In *Proceedings of the 19th Annual Symposium on Computer Applications in Medical Care (SCAMC95)*, pp 208-212, New Orleans, October 1995.

L. Ngo and P. Haddawy and J. Helwig. A Theoretical Framework for Context-Sensitive Temporal Probability Model Construction with Application to Plan Projection, In *Proceedings of the Eleventh Conference on Uncertainty in Artificial Intelligence*, pp 419-426, August 1995.

P. Haddawy, A. Doan and R. Goodwin. Efficient Decision-Theoretic Planning: Techniques and Empirical Analysis, In *Proceedings of the Eleventh Conference on Uncertainty in Artificial Intelligence*, pp 229-236, Montreal, August 1995.

A. Doan and P. Haddawy. Sequential Abstraction of Probabilistic Operators, In *Proceedings MAICSS'95*, pp 93-97, Carbondale, IL, April 1995.

L.M. Roberts, P. Haddawy and C.E. Kahn, Jr. MammoNet: A Bayesian Network for Diagnosing Breast Cancer, In *Proceedings MAICSS'95*, pp 118-125, Carbondale, IL, April 1995.

P. Haddawy, J. Jacobson and C.E. Kahn, Jr. Generating Explanations and Tutorial Problems from Bayesian Networks, In *Proceedings of the 18th Annual Symposium on Computer Applications in Medical Care (SCAMC94)*, pp 770-774, Washington, D.C., November 1994.

C.E. Kahn, Jr. and P. Haddawy. Optimizing Diagnostic and Therapeutic Strategies Using Decision-Theoretic Planning: Principles and Applications, In *Proceedings of the Eighth World Congress on Medical Informatics (Medinfo'95)*, pp 894-898, Vancouver, B.C., July 1995.

P. Haddawy, J. Jacobson and C.E. Kahn, Jr. An Educational Tool for High-Level Interaction with Bayesian Networks, In *Proceedings of the Sixth IEEE International Conference on Tools with Artificial Intelligence*, pp 578-584, New Orleans, November 1994.

P. Haddawy and A.H. Doan. Abstracting Probabilistic Actions, In *Proceedings of the Tenth Conference on Uncertainty in Artificial Intelligence*, pp 270-277, Seattle, July 1994.

P. Haddawy. Generating Bayesian Networks from Probability Logic Knowledge Bases, In *Proceedings of the Tenth Conference on Uncertainty in Artificial Intelligence*, pp 262-269, Seattle, July 1994.

P. Haddawy and M. Suwandi. Decision-Theoretic Refinement Planning using Inheritance Abstraction, In *Proceedings, Second International Conference on AI Planning Systems*, pp 266-271, Chicago, June 1994.

P. Haddawy and S. Hanks. Representations for decision-theoretic planning: Utility functions for deadline goals, In *Principles of Knowledge Representation and Reasoning: Proceedings of the Third International Conference*, pp 71-82, Morgan Kaufmann publisher, San Mateo, CA, 1992.

P. Haddawy. A Temporal Probability Logic for Representing Actions, In *Principles of Knowledge Representation and Reasoning: Proceedings of the Second International Conference*, pp 196-207, Morgan Kaufmann publisher, San Mateo, CA, 1991.

P. Haddawy. Time, Chance, and Action, In *Proceedings of the Sixth Conference on Uncertainty in Artificial Intelligence*, pp 147-154, Boston, July 1990.

P. Haddawy and J. Kelly. ESTIMATOR: An Application of Variable Precision Logic to Building Cost Estimation, In *Proceeding of the Second International Conference on Applications of AI in Engineering*, pp 11-23, Boston, August 1987.

P. Haddawy. Implementation of and Experiments with a Variable Precision Logic Inference System, In *Proceedings of the Fifth National Conference on Artificial Intelligence*, pp 238-242, Philadelphia, August 1986.

Workshop Papers

P. Haddawy, Addressing the Digital Divide as a Strategy for Poverty Reduction in the GMS, In *Proc. ADB-AIT Workshop on Productivity, Technology and Poverty Reduction*, AIT, Feb 2003.

A. Restificar, P. Haddawy, V. Ha, J. Miyamoto, Eliciting Utilities by Refining Theories of Monotonicity and Risk, In *Working Notes of the AAAI-2002 Workshop on Preferences in AI and CP*, Edmonton, Alberta, Canada, July 2002.

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