

## Nancy E. Reed, Ph.D.

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University of Hawai'i at Manoa  
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### Education

- Ph.D.** 1995. Computer Science, University of Minnesota, Minneapolis. Title: Diagnosing Multiple Interacting Defects with Cue Combination Descriptions.
- M.S.** 1988. Computer Science. University of Minnesota, Minneapolis. Title: Strategies and Inexact Models in Computer Hardware Diagnosis.
- B.S.** 1977. Biology. University of Minnesota, Minneapolis.

### Recent Professional Experience

[2002-present] **Assistant Professor**, Department of Electrical Engineering, University of Hawai'i at Manoa. Research in autonomous agents, intelligent systems, biomedical informatics and computational models of problem-solving. Intelligent Autonomous Agents (EE606 formerly EE693F) and Object-Oriented Software Engineering (EE467) course instruction.

[1998-present] **Associate Professor** (Docent) 2003-present, **Assistant Professor** 1998-2003, Computer and Information Science Department, Linköping University, Sweden. Research in autonomous agents, interactive simulation environments, diagnosis, and real-time systems. Concurrent Programming and operating Systems (TDDB12, TDDB63 and TDDB68), Software Engineering (TDDB62 and TDDB12) and Data Structures (HKGBB7) course instruction.

[1994-2002] **Adjunct Assistant Professor** [1996-2002], **Lecturer** [94-95, 96], **Researcher** [95], Computer Science Department, University of California, Davis. Introduction to Computers (ECS15), Introduction to Software Development (ECS40), Discrete Mathematics (ECS100), Data Structures (ECS110), and Medical Decision-Support Systems (PMD207) course instruction. Knowledge-based system development for the Remote Technical Assistance (RTA) project.

[1993-94] **Lecturer**, Computer and Information Science Department, Sonoma State University, Rohnert Park, California. Introduction to Computers laboratory (CIS101) and Artificial Intelligence (CIS480) course instruction.

### Research Interests

Research interests are in the areas of artificial intelligence, autonomous agents, biomedical informatics, cognitive modeling, knowledge-based/expert systems, knowledge acquisition, data mining, machine learning, and real-time systems. Current and recent research activities include developing autonomous agents for simulation environments, developing computational models of diagnostic problem-solving methods, the collection and analysis of verbal protocols from experts, and modeling human expert reasoning.

# Publications

## I. Reviewed Journal Publications

- [1] Nancy E. Reed and Paul E. Johnson. 1993. Analysis of expert reasoning in hardware diagnosis. *The International Journal of Man-Machine Studies*, Vol. 38, No. 2, pp. 251-280.
- [2] Richard F. Walters and Nancy E. Reed. 1996. Distance learning, Can we use it to teach M programming? *M Computing*, Vol. 4, No. 1, pp. 20-24.
- [3] Nancy E. Reed, Maria Gini, and Paul E. Johnson. 1996. Robust strategies for diagnosing manufacturing defects. *Applied Artificial Intelligence*, Vol. 10, No. 5, pp. 387-406.
- [4] Richard F. Walters and Nancy E. Reed. 1996. Outcome Analysis of Distance Learning: A Comparison Between Conventional and Independent Study Instruction. On The Horizon, Integrating Information Technology Tools in Instruction. Online:  
[http://horizon.unc.edu/projects/monograph/CD/Science\\_Mathematics/Walters.asp](http://horizon.unc.edu/projects/monograph/CD/Science_Mathematics/Walters.asp) or  
<http://www.ida.liu.se/~nanre/pubs/distance-learning97.html>  
Also available on CD-ROM from Microsoft.
- [5] Nancy E. Reed, Maria Gini, Paul E. Johnson, and James H. Moller. 1997. Diagnosing Congenital Heart Defects using the Fallot Computational Model. *Artificial Intelligence in Medicine* (Special issue on Knowledge-based systems in Cardiovascular Medicine) Vol. 10, No. 1, pp. 25-40.
- [6] Paul Scerri and Nancy E. Reed. Engineering characteristics of autonomous agent architectures. *Journal of Experimental and Theoretical Artificial Intelligence*, 12:191-212, April 2000.
- [7] T.R. Reed, N.E. Reed and P. Fritzsson. Heart Sound Analysis for Symptom Detection and Computer-Aided Diagnosis. *Journal of Simulation Practice and Theory*, to appear, 2004.

## II. Reviewed International Conference Publications and Book Chapters

- [1] Nancy E. Reed, Elizabeth R. Stuck, and James B. Moen. August 22-26, 1988. Specialized strategies: an alternative to first principles in diagnostic problem solving. *Proceedings of the Seventh National Conference on Artificial Intelligence (AAAI-88)*, pages 364-368, St. Paul, MN.
- [2] Dmitry Grivas and Nancy E. Reed. June, 1990. A framework for knowledge-based applications in pavement management. *VTT Symposium 116: OECD Workshop on Knowledge-Based Systems in Transportation*, pages 401-423, Espoo, Finland.
- [3] Nancy E. Reed and Paul E. Johnson. August 6-10, 1990. Generative knowledge for computer troubleshooting. *Proceedings of the Ninth European Conference on Artificial Intelligence (ECAI-90)*, pages 535-540, Pitman Publishing, Stockholm, Sweden.
- [4] Nancy E. Reed. March 21-23, 1994. Robust strategies for diagnosing manufacturing defects. *Proceedings of the AAAI Spring Symposium on Detecting and Resolving Errors in Manufacturing Systems*, pp. 129-133, Stanford University.
- [5] Nancy E. Reed. July 31 - August 4, 1994. Diagnosing multiple interacting defects with combination descriptions. *Proceedings of the Twelfth National Conference on Artificial Intelligence (AAAI-94)*, p. 1486, Seattle, Washington.
- [6] Nancy E. Reed, Maria Gini, and Paul E. Johnson. March 25-27, 1996. Diagnosing Multiple Interacting Defects with Examples in Pediatric Cardiology. *Proceedings of the AAAI Spring Symposium on Artificial Intelligence in Medicine*, Stanford University, pp. 139-143.

- [7] Steven P. Fonseca and Nancy E. Reed. August 4-8, 1996. Integration of an Expert Teaching Assistant with Distance Learning Software. *Proceedings of the Thirteenth National Conference on Artificial Intelligence (AAAI-96)*, p. 1388, Portland, Oregon.
- [8] Nancy E. Reed. 1998. Constructing the Correct Diagnosis When Symptoms Disappear. July 1998. *Proceedings of the Fifteenth National Conference on Artificial Intelligence (AAAI-98)*, pages 151–156, Madison, WI.
- [9] Paul Scerri and Nancy E. Reed. 1999. An Approach to Directing Intelligent Agents in Real-time. March 1999. *Proceedings of the AAI Spring Symposium on Agents with Adjustable Autonomy*, pages 114–115, Stanford University.
- [10] Paul Scerri and Nancy E. Reed. 1999. Adapting an Agent to a Similar Environment May 1999. *Proceedings of the Third International Conference on Autonomous Agents (Agents 99)*, pages 420–421, Seattle, WA.
- [11] Paul Scerri and Nancy E. Reed. 1999. Requirements for a General Agent Architecture for Agent-Based Simulation Environments, May. *Proceedings of the Workshop on Autonomy Control Software, Autonomous Agents '99*, pages 102–108, Seattle, WA.
- [12] Nancy E. Reed and Paul Scerri. 1999. Adjustable Autonomy in Simulated Pilots, August. *Proceedings of the Workshop on Adjustable Autonomy Systems, Sixteenth International Joint Conference on Artificial Intelligence (IJCAI99)* pages 56-59, August 1, Stockholm, Sweden.
- [13] Paul Scerri and Nancy E. Reed. Creating complex actors with EASE. In Carles Sierra, Maria Gini, and Jeffrey S. Rosenschein, editors, *Fourth International Conference on Autonomous Agents (Agents 2000)*, pages 142–143. ACM Press, June 2000.
- [14] Paul Scerri and Nancy E. Reed. Real-time control of intelligent agents. In Josep Puyol-Gruart, editor, *Technical Summaries of the Software Demonstration Sessions, Fourth International Conference on Autonomous Agents (Agents 2000)*, pages 28–29, June 2000.
- [15] Paul Scerri, Johan Ydrén, and Nancy E. Reed. Layered specification of intelligent agents. In *Sixth Pacific Rim International Conference on Artificial Intelligence (PRICAI 2000)*, pages 565–575, August 2000.
- [16] Paul Scerri and Nancy E. Reed. Online control of agents using ease: Implementing adjustable autonomy using teams. In Nancy E. Reed, editor, *Workshop on Teams with Adjustable Autonomy, Sixth Pacific Rim International Conference on Artificial Intelligence (PRICAI 2000)*, pages 25–34, August 2000.
- [17] Todd Reed, Nancy E. Reed, and Peter Fritzson. Model based heart sound analysis for the detection of diagnostically relevant symptoms. In *Proceedings of the 41st SIMS simulation Conference (SIMS 2000)*, pages 73–86. Technical University of Denmark, Sept 2000.
- [18] Paul Scerri, Nancy Reed, Tobias Wiren, Kikael Lönneberg, and Pelle Nilsson. Headless chickens IV. In Peter Stone, Tucker Balch, and Gerhard Kraetschmar, editors, *RoboCup-2000: Robot Soccer World Cup IV*, volume 2019, pages 493–496. Springer Verlag, Berlin, 2001.
- [19] Todd Reed, Nancy E. Reed, and Peter Fritzson. The analysis of heart sounds for symptom detection and machine-aided diagnosis. In *Proceedings of the 4th International EuroSIMS Congress (EuroSIM 2001)*, pages 038:1–7. Technical University of Delft, June 2001.
- [20] Paul Scerri and Nancy E. Reed. Designing agents for systems with adjustable autonomy. In *Workshop on Autonomy, Delegation and Control: Interacting with Autonomous Agents, Seventeenth International Joint Conference on Artificial Intelligence (IJCAI 2001)*, pages 97–102, August 2001.
- [21] Nancy Reed. Adjustable Autonomy and Teamwork in Agents, In R. Kowalczyk, S. W. Loke, N. Reed, and G. Williams, editors, *Advances in Artificial Intelligence: PRICAI 2000 Workshop Reader*, volume 2112, pages 301–302. Springer Verlag, Berlin, September 2001.

- [22] Paul Scerri and Nancy Reed. Making Adjustable Autonomy Easier with Teamwork. In R. Kowalczyk, S. W. Loke, N Reed, and G Williams, editors, *Advances in Artificial Intelligence: PRICAI 2000 Workshop Reader*, volume 2112, pages 339–352. Springer Verlag, Berlin, September 2001.
- [23] K. Suzanne Barber, Cheryl E. Martin, Nancy E. Reed, and David Kortenkamp. Dimensions of Adjustable Autonomy. In R. Kowalczyk, S. W. Loke, N. Reed, and G Williams, editors, *Advances in Artificial Intelligence: PRICAI 2000 Workshop Reader*, volume 2112, pages 353–361. Springer Verlag, Berlin, September 2001.
- [24] N. E. Reed, Autonomous Agent Systems. In *Proceedings of the International Lisp Conference 2002*, Franz Inc., Berkeley, CA, 2003.
- [25] N. Reed, Online User Direction Using Goal Modification. In C Martin, J. Bradshaw, D. Schreckenghost, and M. Tambe, editors, *Workshop on Humans and Multi-Agent Systems at the Second International Conference on Agents and Multi-Agent Systems (AAMAS03)*, pages 73–80. Melbourne, Australia, July 2003.

### III. Other Publications

- [1] G. Johnson, A.J. McCullough, N. Reed, and V.L.W. Go. May, 1980. Nutrient Specific Immunoreactive Gastric Inhibitory Polypeptide (IRGIP) Subspecies Response. *Gastroenterology*, p. 1330, Vol. 78, No. 5, Part 2.
- [2] Nancy E. Reed. March, 1988. *Strategies and Inexact Models in Computer Hardware Diagnosis*. M.S., University of Minnesota, Computer Science Dept., 136 pages.
- [3] Nancy E. Reed. Winter, 1993. FOCUS: Fallot. American Association for Artificial Intelligence - Artificial Intelligence in Medicine Subgroup Newsletter, Vol. 2, No. 2, pp. 1-2.
- [4] Nancy E. Reed. June, 1995. *Diagnosing Multiple Interacting Defects with Cue Combination Descriptions*. Ph. D. Thesis, University of Minnesota, Computer Science Dept., 203 pages.
- [5] Nancy E. Reed. August, 1996. Diagnosing multiple interacting defects with combination descriptions. Technical report CSE-96-19, Computer Science Department, University of California, Davis. Updated online version of a poster presented at the Twelfth National Conference on Artificial Intelligence (AAAI-94), Seattle, Washington. Online: <http://www.ida.liu.se/~nanre/pubs/cse-96-19.html>.
- [6] Steven P. Fonseca and Nancy E. Reed. August, 1996. Integration of an Expert Teaching Assistant with Distance Learning Software. Technical report CSE-96-20, Computer Science Department, University of California, Davis. Online version of a poster presentation at the Thirteenth National Conference on Artificial Intelligence (AAAI-96), Portland, Oregon. Online: <http://www.ida.liu.se/~nanre/pubs/cse-96-20.html>.
- [7] Nancy E. Reed. 1997. Report from a Grace Hopper Celebrant. *login*: Vol. 22, No. 6, p. 5.
- [8] Paul Scerri, Nancy Reed and Anders Törne. 1998. EASE – Enduser Agents Specification Environment, Technical Report TACSIM-98-04, Computer and Information Science Department, Linköping University, November.
- [9] Paul Scerri and Nancy Reed. 1999. The EASE Actor Development Environment, Technical Report TACSIM-99-01, Computer and Information Science Department, Linköping University, October. Also appears in the proceedings of the Swedish Artificial Intelligence Society Workshop (SAIS-2000), May, 2000.

## Presentations

- [1] Specialized strategies: an alternative to first principles in diagnostic problem solving. August 25, 1988. *The Seventh National Conference on Artificial Intelligence (AAAI-88)*, St. Paul, MN.
- [2] Issues in the Diagnosis of Multiple Diseases. February 1, 1990. Cognitive Science Seminar, Institut für Informatik, University of Zürich - Irchel, Zürich, Switzerland.
- [3] Generative knowledge for computer troubleshooting. August 9, 1990. *The Ninth European Conference on Artificial Intelligence (ECAI-90)*, Stockholm, Sweden.
- [4] Knowledge for the Diagnosis of Multiple Diseases. October 2, 1990. Workshop on Artificial Intelligence in Medicine, *The Second Swiss Meeting on Artificial Intelligence and Cognitive Science (SGAICO-90)*. October 2, 1990.
- [5] Generative Knowledge for Computer Troubleshooting. October 3, 1990. *The Second Swiss Meeting on Artificial Intelligence and Cognitive Science (SGAICO-90)*, Geneva, Switzerland.
- [6] Methods for Diagnosing Multiple Interacting Defects. January 28, 1993. Computer Science Colloquium, University of California, Davis.
- [7] Generative Knowledge for Computer Troubleshooting. April 29, 1993. Machine Learning Seminar, University of California, Davis.
- [8] Methods for Diagnosing Multiple Interacting Defects. September 9, 1993. Computer Science Colloquium, Sonoma State University, Rohnert Park, California.
- [9] Methods for Diagnosing Multiple Interacting Defects. October 25, 1993. Computer Science Seminar, California State University at Sacramento.
- [10] Diagnosing Multiple Interacting Defects with Combination Descriptions. February 16, 1994. Computer Science Colloquium, Mills College, Oakland, California.
- [11] Robust Strategies for Diagnosing Manufacturing Defects. March 21, 1994. *AAAI Spring Symposium on Detecting and Resolving Errors in Manufacturing Systems*, Stanford University.
- [12] Diagnosing Multiple Interacting Defects with Combination Descriptions. August 4, 1994. Poster. *The Twelfth National Conference on Artificial Intelligence (AAAI-94)*, Seattle, Washington.
- [13] Diagnosing Multiple Interacting Defects with Examples in Pediatric Cardiology. March 26, 1996. *AAAI Spring Symposium on Artificial Intelligence in Medicine*, Stanford University.
- [14] Diagnosing Congenital Heart Defects using the Fallot Computational Model. April 20, 1996. *The 1996 Highman Symposium on Medical Informatics*, UC Davis Medical Center, Sacramento, California.
- [15] Integration of an Expert Teaching Assistant with Distance Learning Software. August 7, 1996. Poster. *The Thirteenth National Conference on Artificial Intelligence (AAAI-96)*, Portland, Oregon.
- [16] Diagnosing Congenital Heart Defects using the Fallot Computational Model. November 14, 1996. *Medical Informatics Seminar*, University of California, Davis, California.
- [17] Expert Reasoning in Computer Hardware Diagnosis. January 28, 1997. *Invited Seminar*, Department of Computer and Information Science, Linköping University, Linköping, Sweden.
- [18] Constructing the Correct Diagnosis When Symptoms Disappear. July 30, 1998. *The Fifteenth National Conference on Artificial Intelligence (AAAI-98)*, Madison, Wisconsin.
- [19] The NUTEK TACSim Project. October 14, 1998. *Real-time Systems Laboratory Seminar*, Department of Computer and Information Science, Linköping University, Linköping, Sweden.

- [20] Constructing the Correct Diagnosis When Symptoms Disappear With Multiple Defects. October 20, 1998. *Invited Seminar*, Department of Computer and Information Science, Linköping University, Linköping, Sweden.
- [21] Agents in Interactive Simulation Environments. October 28, 1998. *NUTEK Conference on Complex Technical Systems*, Riverton Hotel, Göteborg, Sweden.
- [22] Applications of Artificial Intelligence in Diagnosis and Simulation. June 7, 1999. *Invited Seminar*, Department of Physics, University of Patras, Patras, Greece.
- [23] Applications of Artificial Intelligence in Diagnosis and Simulation. July 2, 1999. *Invited Seminar*, Department of Electronics and Computer Science, University of Algarve, Campus de Gambelas, Faro, Portugal.
- [24] Adjustable Autonomy in Simulated Pilots, *Workshop on Adjustable Autonomy Systems*, Sixteenth International Joint Conference on Artificial Intelligence (IJCAI99), August 1, 1999, Stockholm, Sweden.
- [25] Applications of Artificial Intelligence in Diagnosis and Simulation. September 3, 1999. *Invited Seminar*, Artificial Intelligence and Integrated Computer Science Division Seminar, Department of Computer and Information Science, Linköping University, Linköping, Sweden.
- [26] Autonomous Agents and Diagnosis Research: Past, Present and Future. Feb 23, 2000. *Invited Seminar*, Real-Time Systems Laboratory Seminar, Department of Computer and Information Science, Linköping University, Linköping, Sweden.
- [27] Flying Planes and Playing Football EASE-ily. April 1, 2000. *Invited Seminar*, Linköping University 25th anniversary open house, Department of Computer and Information Science, Linköping University, Linköping, Sweden.
- [28] Intelligent Agents in Interactive Simulation Environments. April 12, 2000. *Center for Industrial Information Technology (CENIIT) workshop*, Frimurare Hotel, Linköping, Sweden.
- [29] Diagnosing Manufacturing Defects using Robust Strategies. April 24, 2000. *Invited Seminar*, Department of Electrical and Computer Engineering, Oklahoma State University, Stillwater, Oklahoma.
- [30] The EASE Actor Development Environment. May 10, 2000. *Swedish Artificial Intelligence Society Workshop (SAIS-2000)*, Frimurare Hotel, Linköping, Sweden.
- [31] Specification of Agents in Complex, Interactive Simulation Environments. May 24, 2000. *NUTEK Complex Technical Systems program evaluation*, Swedish National Board for Industrial and Technical Development (NUTEK), Stockholm, Sweden.
- [32] Workshop on Teams with Adjustable Autonomy, Introduction and Summary. August 28, 2000. *Pacific Rim International Conference on Artificial Intelligence*, Melbourne, Australia.
- [33] Detecting, Expressing, and Harmonizing Autonomy in Communication Between Social Agents, for H. Hexmoor, H. Holmback and L. Duncan. March 27, 2001. *AAAI Spring Symposium on Autonomy, Delegation and Control*, Stanford University, California.
- [34] Enabling Adjustable Autonomy of Autonomous Agents. July 12, 2001, *Invited seminar*, Department of Electrical Engineering, University of Hawai'i at Manoa.
- [35] Intelligent Agents in Interactive Simulation Environments. August 30, 2001. *Center for Industrial Information Technology (CENIIT)*, Linköping, Sweden.
- [36] Enabling Adjustable Autonomy of Autonomous Agents. September 3, 2001. *Invited seminar*, IRST Research Center, Trento, Italy.
- [37] Intelligent Systems Research, May 2, 2002. *Invited seminar*, Trex/UH Meeting, Honolulu, Hawaii.

- [38] Introduction to Autonomous Agents, October 8, 2002. *Invited seminar*, Cyberpizza Hawaii, Honolulu, Hawaii.
- [39] Tutorial on Autonomous Agent Systems. October 27, 2002. *Invited tutorial*, International Lisp Conference, San Francisco.
- [40] Intelligent Software Agents - Research and Applications. January 16, 2003. *Docent lecture*, Department of Computer and Information Science, Linköping University, Sweden.
- [41] Is There an Autonomous Agent in Your Future? June 25, 2003. *Shunzo Sakamaki Extraordinary Lecture Series*, University of Hawaii, Manoa.
- [42] Online User Direction Using Goal Modification. July 14, 2003. *Workshop on Humans and Multi-Agent Systems* at the Second International Conference on Agents and Multi-Agent Systems (AAMAS03), Melbourne, Australia.

## Professional Affiliations

<b>AAAI</b>	American Association for Artificial Intelligence, member.
<b>ARTES</b>	The Network for Real-Time Education and Research in Sweden, member.
<b>AAUP</b>	American Association of University Professors, member.
<b>ACM</b>	Association for Computing Machinery, member. Interim Secretary/Treasurer of the Honolulu ACM chapter (2003-present).
<b>AHA</b>	American Heart Association, member.
<b>AMIA</b>	American Medical Informatics Association, member.
<b>IEEE</b>	Institute of Electrical and Electronics Engineers, member, IEEE Computer Society, member.

## Professional Activities

Reviewer for *IEEE Intelligent Systems*, *Artificial Intelligence in Medicine*, *International Journal of Man-Machine Studies*, *Integrated Computer-Aided Engineering*, *Autonomous Agents 2000*, *Journal of Systems Architecture*, and *IEEE Transactions on Systems, Man and Cybernetics*.

Session chair for the AAAI Spring Symposium on Detecting and Resolving Errors in Manufacturing Systems, Stanford University, March 22, 1994.

Committee member on the creation of a Medical Informatics program and curriculum design/development for the program at UC Davis, 1996-present.

Invited speaker for a panel on the “Methodological Issues in Computer and Information Science Research”, Department of Computer and Information Science, Linköping University, December 7, 1998.

Acting Director, Real-Time Systems Laboratory, Linköping University, April 1999 - Feb 2000.

Masters thesis reviewer for Linköping University, Computer and Information Science Department, 1999-.

Ph.D. thesis reviewer for the University of Melbourne, Department of Computer Science and Software Engineering, Australia, 1999.

Chair of the Workshop on Teams with Adjustable Autonomy at the Sixth Pacific Rim International Conference on Artificial Intelligence (PRICAI 2000), Melbourne Australia, Aug. 28, 2000.

Program committee member and session chair for the 7th IDA Ph.D. Conference, Linköping University, Oct 19-20, 2000.

Program committee member, Workshop on Autonomy, Delegation, and Control: Interacting with Autonomous Agents, at the Seventeenth International Joint Conference on Artificial Intelligence, Aug 6, 2001.

Co-editor, *Advances in Artificial Intelligence: PRICAI 2000 Workshop Reader, Lecture Notes in Artificial Intelligence*, Volume 2112, Springer Verlag, Berlin, with R. Kowalczyk, S. W. Loke and G. Williams, Sept, 2001.

Program committee member, Workshop on Autonomy, Delegation, and Control: From Inter-Agent to Groups, at the Eighteenth National Conference on Artificial Intelligence, Aug 28, 2002.

Program committee, International Lisp Conference, October, 2002. Program committee, reviewer, International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS03), July 14-18, 2003.

Interim Secretary/Treasurer of the Honolulu ACM chapter (2003-present).

## Funding

PI: Nancy E. Reed, *Real-Time Response and Control of Autonomous Agents*, The Network for Real-Time Education and Research in Sweden (ARTES) , SEK 1,200,000 (approx. \$115,000), Sept 2000 - Aug 2002.

PI: Nancy E. Reed, *Interactive Simulation Environments Research Group*, Center for Industrial Information Technology (CENIIT) Grant# 99.7, SEK 1,150,000 (approx. \$110,000), Jan 1999 - Dec 2002.

PI: Nancy E. Reed, *Specification of Agent Behavior in Complex, Interactive, Simulation Environments*, Swedish National Board for Industrial and Technical Development (NUTEK) Grant#s 1K1P-98-06280 and IK1P-99-6166, SEK 850,000 (approx. \$105,000) Jan 1999 - Aug 2000. Matching support is provided by Saab AB, Operational Analysis Division.

PIs: Anders Törne and Nancy E. Reed, *Specification of Agent Behavior in Complex, Interactive, Simulation Environments*, Swedish National Board for Industrial and Technical Development (NUTEK) Grant# 1K1P-97-09677, SEK 425,000 (approx. \$55,000), Apr 1998 - Mar 1999. Matching support is provided by Saab AB, Operational Analysis Division.

PI: Nancy E. Reed, *Diagnosing Interacting Defects Using Cue Combination Types*, NSF Grant# 9870454, \$75,000, Sept 1998 - Feb 2001.

PIs: Richard F. Walters and Nancy E. Reed, *Laboratory manual and on-line resources development to aid student learning in ECS15, Introduction to Computers*, UCD Undergraduate Instructional Improvement Program, \$500, Sept. 1997 - Dec. 1997.

## Honors and Awards

- 84-85**      Microelectronic and Information Sciences Fellowship, \$10,000.
- 85-89**      American Electronics Association Fellowship, \$10,000/year,  
Faculty development program for prospective teachers.
- 1992**      American Association for Artificial Intelligence Scholarship, Travel, National  
Conference on A.I., July 1992, \$100 + conference registration.
- 1993**      Publication award, Computer Science Department, University of  
Minnesota, Spring 1993, \$100.
- 1994**      American Association for Artificial Intelligence Scholarship, Travel, National  
Conference on A.I., July-August 1994, \$140 + conference registration.
- 1996**      Dictionary of International Biography, 24th edition, p. 280.
- 96-97**      Marquis Who's Who in the West 1996-1997, 25th edition, p. 701.
- 1997**      Marquis Who's Who in the World 1997, 14th edition, p. 1202.
- 1997**      Usenix scholarship to attend the 1997 Grace Hopper Conference, \$630.
- 97-98**      Marquis Who's Who of American Women 1997-1998, 20th edition, p. 888.
- 1998**      Dictionary of International Biography, 27th edition.
- 1999**      Marquis Who's Who in America 1999, 53rd edition.
- 1999**      International Who's Who of Professional and Business Women, 6th edition.
- 1999**      Marquis Who's Who of American Women 1999, 21st edition.
- 1999**      Marquis Who's Who in the World 1999, 16th edition.
- 2000**      Marquis Who's Who in Science and Engineering, 2000-2001, 5th edition.
- 2000**      Marquis Who's Who in the West, 2000-2001, 27th edition.
- 2000**      Marquis Who's Who in the World 2000, 17th edition.
- 2000**      Dictionary of International Biography, 28th edition.
- 2000**      Marquis Who's Who in America 2000, 54th edition.
- 2002**      Marquis Who's Who of American Women, 2002-2003, 23rd edition.
- 2003**      Marquis Who's Who in Science and Engineering, 2003-2004, 7th edition.
- 2003**      Marquis Who's Who in America 2003, 57th edition.
- 2004**      Marquis Who's Who in the World 2004, 21st edition.
- 2004**      Marquis Who's Who of American Women, 2004-2005, 24th edition.
- 2004**      Marquis Who's Who in American Education 2004-2005, 6th edition.
- 2004**      Marquis Who's Who in America 2004, 58th edition.

## Theses/Degrees/Projects Supervised

### Graduate

- Christopher Longhurst, Diagnosing Interacting Defects Using Cue Combination Types, funded by NSF, 1999-2001. Master of Science in Medical Informatics, University of California, Davis, June, 2000.
- Paul Scerri, Autonomous Agents in Interactive Simulation Environments, 1998-2001, funded by NUTEK, Saab Aerospace, CENIIT and ARTES. Doctor of Philosophy, Designing Agents for Systems with Adjustable Autonomy, Computer and Information Science Department, Institute of Technology, Linköping University, Dissertation No. 724, ISBN-91-7373-207-9, December 14, 2001.
- Shu Liang, Decision Support for Cardiovascular Disease Detection and Management, funded by the Electrical Engineering Dept., Degree objective M.S., 2002-present, Electrical Engineering Dept., University of Hawaii at Manoa.
- Yunfei Alan Ge, Decision Support for Cardiovascular Disease Detection and Management, Degree objective Ph.D., 2002-present, Electrical Engineering Dept., University of Hawaii at Manoa.
- Taufiqul Kazi, Autonomous Agents for Disaster Management, Degree objective M.S., 2002-present, Electrical Engineering Dept., University of Hawaii at Manoa.
- Vengfai (Raymond) U, Evaluating Civilian Rescue Skills in RoboCup Rescue, Degree objective M.S., 2002-present, Electrical Engineering Dept., University of Hawaii at Manoa.
- Bin Wei, Autonomous Agents for Disaster Management, Degree objective M.S., 2003-present, Electrical Engineering Dept., University of Hawaii at Manoa.

### Undergraduate Projects/Degrees

- Tabitha Wong, Diagnosing Interacting Defects Using Cue Combination Types, Funded by NSF, Department of Computer Science, University of California, Davis, 1999-2001. B.S. in Computer Science, 2001.
- Jason Akagi, A Computer Vision System for Autonomous Robots, Capstone Design Project, Department of Electrical Engineering, University of Hawaii at Manoa. 2002-2003. B.S. in Electrical Engineering, Summer 2003.
- MinSok Chung, Autonomous Robotics Object Recognition, Capstone Design Project, 2003-present, Electrical Engineering Dept., University of Hawaii at Manoa.
- Ryan Karamatsu, Agents for RoboCup, Capstone Design Project, 2003-present, Electrical Engineering Dept., University of Hawaii at Manoa.
- Carolyn Jenkins, Agents for RoboCup, Capstone Design Project, 2003-present, Electrical Engineering Dept., University of Hawaii at Manoa.

## Theses/Degrees/Projects Supervised

### European Masters Degrees

- Fatma El-Fahid, **A Prolog Interpreter in Common Lisp**, Masters thesis (diplome), Swiss Federal Institute of Technology (EPFL) 1990.
- Djamila Haroud, **Qualitative simulation of the heart** (in French), Masters thesis (diplome), Swiss Federal Institute of Technology (EPFL) 1990.
- Cinzia Foglietta, **Assured Selection – A Relaxed Concurrency Control Mechanism**, Masters thesis, Dept. of Computer and Information Science, Linköping University, LiTH-IDA-EX-99-100, December 13, 1999.
- Eric Jönsson and Jens Nordberg, **Intelligent Agents in an Electronic Auction Context**, Masters thesis, Dept. of Computer and Information Science, Linköping University, LiTH-IDA-EX-00-37, April 14, 2000.
- Andreas Johansson, **Data Collection in Distributed Command and Control Systems with Mobile Agents**, Masters thesis, Dept. of Computer and Information Science, Linköping University, LiTH-IDA-EX-00-65, June 6, 2000.
- Mattias Lindblad, **A Web Server in the Data Transfer Unit of the JAS 39 Gripen**, Masters thesis, Dept. of Computer and Information Science, Linköping University, LiTH-IDA-EX-01-58, June 7, 2001.
- Ola Lundell, **A Wireless, Handheld Supervision System for Mailrooms** Masters thesis, Dept. of Computer and Information Science, Linköping University, LiTH-IDA-EX-02-40, March 22, 2002.
- Patrik Svensson, **Distributed Simulation with HLA**, Masters thesis, Dept. of Computer and Information Science, Linköping University, LiTH-IDA-EX-02-47, April 19, 2002.
- Knut Nordin, **Rule System with Adaptive Trigger Conditions**, Masters thesis, Dept. of Computer and Information Science, Linköping University, LiTH-IDA-EX-02-54, April 24, 2002.
- Per-Magnus Olsson, **Intelligent Agents for Aircraft Handling**, Masters thesis, Dept. of Computer and Information Science, Linköping University, LiTH-IDA-EX-02-114, December 12, 2002.