

DANIEL G. SCHWARTZ

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Academic Degrees

B.A., Mathematics, Portland State University, Portland, Oregon, 1969

M.S., Mathematics, Thesis in Mathematical Logic, Simon Fraser University, Burnaby, British Columbia, Canada, 1974

Ph.D., Systems Science, Dissertation in Nonclassical Reasoning, Portland State University, Portland, Oregon, 1981

Current Areas of Interest

Artificial Intelligence (Formal Logics, Theory and Applications)

Digital Libraries (Content Management, Multimedia, Classification Taxonomies and Ontologies)

Software and Web Applications Development (including Databases, Web Site Construction, and Service Oriented Architectures)

Information Security and Network Intrusion Detection

Academic Positions

Associate Professor, Department of Computer Science, Florida State University, Tallahassee, Florida, Fall 1989 – present.

Visiting Scholar, Beckman Institute, University of Illinois at Urbana-Champaign, Urbana, Illinois, Fall 1994.

Visiting Scholar, Laboratory for International Fuzzy Engineering Research (LIFE), Yokohama, Japan, 1 month, Summer 1991.

Visiting Scholar, Department of Industrial Engineering, Kansai University, Osaka, Japan, 2 months, Summer 1991.

Assistant Professor, Department of Computer Science, Florida State University, Tallahassee, Florida, Fall 1984 – Summer 1989.

Assistant Professor of Systems Analysis, Elmira College, Elmira New York, Fall 1983 – Spring 1984.

Assistant Professor, Department of Systems Science, Binghamton University, Binghamton, New York, Fall 1981 – Spring 1983.

Instructor, Department of Mathematics and Computer Science, Florida International University, Miami, Florida, Fall 1980 – Spring 1981.

Various Teaching and Research Assistantships, Simon Fraser University and Portland State University, Fall 1969 – Spring 1980.

Professional Society Memberships

American Association for Artificial Intelligence
Association for Computing Machinery
IEEE Computer Society
North American Fuzzy Information Processing Society

Research and Creative Activity

Publications

A. Journal Articles (All Refereed)

1. Isomorphisms of G. Spencer-Brown's Laws of Form and F. Varela's Calculus for Self-Reference. *International Journal of General Systems*, 6 (1981) 239–255.
2. The case for an interval-based representation of linguistic truth. *Fuzzy Sets and Systems*, 17 (1985) 153–165.
3. Axioms for a theory of semantic equivalence. *Fuzzy Sets and Systems*, 21 (1987) 319–349.
4. A free-variable theory of primitive recursive arithmetic. *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, 33 (1987) 147–157.
5. On the equivalence between logic-free and logic-bearing systems of primitive recursive arithmetic. *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, 33 (1987) 245–253.
6. Semantic completeness of free-variable theories. *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, 33 (1987) 441–452.
7. Fuzzy inference in a formal theory of semantic equivalence. *Fuzzy Sets and Systems*, 31 (1989) 205–216.
8. A system for reasoning with imprecise linguistic information, *International Journal of Approximate Reasoning*, 5 (1991) 463–488.
9. Tamir, D.E., Schwartz, D.G., and Kandel, A., A pattern recognition interpretation of implications, *Information Sciences*, 57–58 (1991) 197–215.
10. Schwartz, D.G. and Klir, G.J., Fuzzy logic flowers in Japan, *IEEE Spectrum*, 29, 7 (1992) 32–35.
11. Schwartz, D.G. and Klir, G.J., Fuzzy logic flowers in Japan (in Japanese), *bit*, 25, 4 (April 1993) 4–13. [Japanese translation of A.10, by Yoshinori Ezawa, published in a popular Japanese technology magazine.]
12. Schwartz, D.G., Klir, G.J., Lewis, H., and Ezawa, Y., Applications of fuzzy sets and approximate reasoning, *Proceedings of the IEEE*, 82, 4 (1994) 482–498. (Invited paper)

13. Chung, H.-T. and Schwartz, D.G., A resolution-based system for symbolic approximate reasoning, *International Journal of Approximate Reasoning*, 13, 3 (1995) 201–246.
14. Dynamic reasoning with qualified syllogisms, *Artificial Intelligence*, 93, 1-2 (1997) 103–167.
15. Time, nonmonotonicity, qualified syllogisms, and the frame problem, *Journal of Intelligent Systems*, 8, 3-4 (1998) 315–355. (Invited)
16. Layman’s probability theory: a calculus for reasoning with linguistic likelihood, *Information Sciences*, 126, 1-4 (2000) 71–82.
17. Agent-oriented epistemic reasoning: subjective conditions of knowledge and belief, *Artificial Intelligence*, 148, 1-2 (2003) 177-195.
18. Long, J., Schwartz, D., and Stoecklin, S., Multi-sensor network intrusion detection: a case-based approach, *WSEAS Transactions on Computers*, 4, 12 (2005) 1768–1776.
19. Long, J. and Schwartz, D.G., Case-oriented alert correlation, *WSEAS Transactions on Computers*, 7, 3 (2008) 98–112.
20. Ustymenko, S. and Schwartz, D.G., Dynamic agent-oriented reasoning about belief and trust, *Multiagent and Grid Systems: An International Journal*, 4, 2 (2008) 335–346.
21. Ustymenko, S. and Schwartz, D.G., Adapting software engineering design patterns for ontology construction, *WSEAS Transactions on Information Science and Applications*, 5, 6 (2008) 9 pages.

B. Book Chapters

1. Fuzzy mathematical objects, in E. Ruspini, P. Bonissone, and W. Pedrycz, eds., *Handbook of Fuzzy Computation*, Oxford University Press and Institute of Physics Publishing, New York, 1998, pp. B2.7:1–12. (Invited)
2. M. Bassiouni, V.M. Bier, P. Carayon, J. Chandra, R.K. Guha, S.B. Kraemer, S.M. Robinson, D.G. Schwartz, and S. Stoecklin, Analysis, modeling, and simulation for networked systems. In: C. Wang, et al., eds., *Department of Defense Sponsored Information Security Research: New Methods for Protecting Against Cyber Threats*, Wiley, Indianapolis, IN, 2007, pp. 440-465.
3. S. Ustymenko and D.G. Schwartz, Architecture for belief revision in multi-agent intelligent systems, in K. Elleithy, ed., *Innovations and Advanced Techniques in Systems, Computing Sciences and Software Engineering, Springer, 2008, pp. 465-470*. (Same as A.21, selected for publication in a special volume.)

C. Conference Articles (All Refereed)

International Meetings

1. An axiomatic approach to fuzzy inference. *International Symposium on Fuzzy Systems and Knowledge Engineering*, Guangzhou-Guiyang, China, July 10–16, 1987, pp. 69–77.

2. A model of expert decision making with fuzzy criteria. *Second Congress of the International Fuzzy Systems Association, IFSA-87*, Tokyo, Japan, July 20–25, 1987, pp. 622–624.
3. An alternative semantics for linguistic variables. In *Uncertainty and Intelligent Systems*, Proceedings of the International Conference on Information Processing and Management of Uncertainty in Knowledge Based Systems, IPMU'88, Urbino, Italy, July 3–8, 1988, New York: Springer-Verlag, 1988, pp. 87–92.
4. Outline of a naive semantics for reasoning with qualitative linguistic information, *Proceedings of the Eleventh International Joint Conference on Artificial Intelligence, IJCAI'89*, Detroit, Michigan, August 20–25, 1989, pp. 1068–1073.
5. On the relation between fuzzy quantification, usuality, and linguistic likelihood. *Proceedings of the International Conference on Information Processing and Management of Uncertainty in Knowledge Based Systems, IPMU'90*, Paris, France, July 2–6, 1990, pp. 263–265. (Invited)
6. Two interpretations of fuzzy likelihood, *Proceedings of the Japan Society for Fuzzy Theory and Systems, SOFT'91*, Nagoya, Japan, June 12–14, 1991, pp. 221–224.
7. Qualitative representations of fuzzy likelihood, *Proceedings of the World Congress on Expert Systems*, Orlando, Florida, December 16–19, 1991, New York: Pergamon, pp. 124–131. (Invited)
8. A min-max semantics for fuzzy likelihood, *Proceedings of the IEEE International Conference on Fuzzy Systems, FUZZIEEE'92*, March 8–12, 1992, San Diego, California, pp. 1393–1398.
9. Japanese advances in fuzzy systems research, *Proceedings of the Society for Photo-Optical Instrumentation Engineers, SPIE'92, Science of Artificial Neural Networks, Vol. 1710*, Orlando, Florida, April 20–24, 1992, pp. 583–597. (Invited)
10. Representing fuzzy quantifiers as modal operators, *Proceedings of the International Conference on Information Processing and Management of Uncertainty in Knowledge Based Systems, IPMU'92*, Palma de Mallorca, Spain, July 6–10, 1992, pp. 663–668.
11. Toward a logic for fuzzy syllogisms. *Proceedings of the Second IEEE Conference on Fuzzy Systems, FUZZIEEE'93*, San Francisco, CA, March 31–April 4, 1993, pp. 71–75. (Invited)
12. Uh, G.R. and Schwartz, D.G., Predicting consumer expenditure behavior with neural nets, *Proceedings of the World Congress on Neural Networks*, Portland, Oregon, July 11–15, 1993, pp. I-412–I-415.
13. A framework for combining fuzzy modifiers, *Proceedings of the Third IEEE Conference on Fuzzy Sets and Systems, FUZZIEEE'94*, Orlando, FL, June 26–July 2, 1994, pp. 1126–1131.
14. On the semantics for qualified syllogisms. *Fifth IEEE International Conference on Fuzzy Systems, FUZZIEEE'96*, New Orleans, September 8–11, 1996, pp. 941–946.

15. A min-max logic for linguistic likelihood. *Seventh International Conference on Fuzzy Theory & Technology, FTT'2000*, held as part of *The Fifth Joint Conference on Information Sciences, JCIS'2000*, February 28–March 2, 2000, Atlantic City, NJ, pp. 37–40. (Invited)
16. Schwartz, D.G., Stoecklin, S., and Yilmaz, E., A case-based approach to network intrusion detection, *Fifth International Conference on Information Fusion, IF'02*, Annapolis, MD, July 7-11, 2002, pp. 1084–1089.
17. Guha, R., Kachirski, O., Schwartz, D.G., Stoecklin, S., and Yilmaz, E., Case-based agents for packet-level intrusion detection in ad hoc networks, *Seventeenth International Symposium on Computer and Information Sciences, ISCIS'02*, Orlando, FL, October 28-30, 2002, pp. 315–320.
18. Yilmaz, E., Stoecklin, S., and Schwartz, D.G., Toward a generic case-based reasoning framework using adaptive software architectures, *The 2003 International Conference on Information and Knowledge Engineering (IKE'03)*, Las Vegas, NV, June 23–26, 2003, Volume II, pp. 512-513. (poster presentation)
19. Stoecklin, S., Schwartz, D.G., Yilmaz, E., and Patel, M., A metadata architecture for case-based reasoning, *The 2004 International Conference on Artificial Intelligence (IC-AI'04)*, Las Vegas, NV, June 21–24, 2004, pp. 790–794.
20. Patel, M., Stoecklin, S., Schwartz, D.G., Graphical user interface using a reflective architecture and XML, *The 2004 International Conference on Software Engineering Research and Practice (SERP'04)*, Las Vegas, NV, June 21–24, 2004, pp. 648–651.
21. Long, J., Stoecklin, S., Schwartz, D.G., and Patel, M., Adaptive similarity measures in case-based reasoning, *The 6th IASTED International Conference on Intelligent Systems and Control (ISC'04)*, August 23-25, 2004, Honolulu, Hawaii, pp. 260–265.
22. Long, J., Schwartz, D.G., Stoecklin, S., and Patel, M., Application of loop reduction to learning program behaviors for anomaly detection, *International Conference on Information Technology: Coding and Computing (ITCC'05)*, Las Vegas, Nevada, April 11–13, 2005, pp. 691–696.
23. Long, J., Schwartz, D., and Stoecklin, S., An XML distance measure, *The 2005 International Conference on Data Mining (DMIN'05)*, Las Vegas, Nevada, June 20-23, 2005, pp. 119–125.
24. Long, J., Schwartz, D.G., and Stoecklin, S., Application of case-based reasoning to multi-sensor network intrusion detection, *WSEAS/IASME International Conference on Computational Intelligence, Man-Machine Systems, and Cybernetics (CIMMACS'05)*, Miami, Florida, USA, November 17–19, 2005, pp. 260-269.
25. Ustymenko, S. and Schwartz, D.G., Applying object-oriented metaphors and design patterns in defining semantic metadata schema, *First Online Conference on Metadata and Semantics Research (MTSR'05)*, November 21–30, 2005, pp. 691–696.

26. Long, J., Schwartz, D.G., and Stoecklin, S., Distinguishing false from true alerts in Snort by data mining patterns of alerts, *Data Mining, Intrusion Detection, Information Assurance, and Data Networks Conference, SPIE Defense and Security Symposium 2006*, Orlando (Kissimmee), Florida, April 17–21, 2006, pp. 62410B-1–62410B-10.
27. Ustymenko, S. and Schwartz, D.G., Online communities and online repositories: towards improving digital libraries by collaborative ontology-based filtering, *International e-Conference on Computer Science (IeCCS 2006)*, June 28 – July 8, 2006, pp. 255–258.
28. Ustymenko, S. and Schwartz, D.G., An agent-oriented logic for belief and trust, *International Workshop on Engineering Semantic Agent Systems (ESAS 2006)*, held in conjunction with *30th IEEE Annual International Computer Software and Applications Conference (COMPSAC 06)*, Chicago, September 17-21, 2006, pp. 321–326.
29. Ustymenko, S. and Schwartz, D.G., Architecture for belief revision in multi-agent intelligent systems, *Proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 07)*, which occurred as part of the *International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering, CISEE'07*, December 3-12, 2007, an on-line conference, paper number 167.
30. Ustymenko, S. and Schwartz D.G., Architecture for decision-making and task-oriented reasoning for the Web of Trust, *Proceedings of International Conference of Computational Methods in Sciences and Engineering 2008 (ICCMSE 2008), Special Session on Computer Science*, Crete, Greece, September 25-30.
31. Schwartz, D.G. and Long, J., Case-based multi-sensor intrusion detection, *Proceedings of International Conference of Computational Methods in Sciences and Engineering 2008 (ICCMSE 2008), Special Session on Computer Science*, Crete, Greece, September 25-30.
32. A logic for qualified syllogisms, *Proceedings of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE'08)*, December 5–13, 2008, an on-line conference.

National Meetings

1. Forecasting in a fuzzy environment. *General Systems Research and Design: Precursors and Futures, Proceedings of the Twenty-Fifth Annual Meeting of the Society for General Systems Research*, Toronto, Canada, January 6–9, 1981, pp. 20–26.
2. Remarks on the scientific use of nonclassical modes of reasoning. *The Relation between Major World Problems and Systems Learning, Proceedings of the Twenty-Sixth Annual Meeting of the Society for General Systems Research*, Detroit, Michigan, May 23-27, 1983, pp. 205–210.

3. One cornerstone in the mathematical foundations for a system of fuzzy-logic programming, *The Second Conference on Artificial Intelligence Applications: The Engineering of Knowledge-Based Systems*, IEEE Computer Society, Miami Beach, Florida, December 11–13, 1985, pp. 618–620.
4. A restriction of fuzzy logic to crisp intervals. *North American Fuzzy Information Processing Society Workshop on Fuzzy Expert Systems and Decision Support, NAFIPS'85*, Georgia State University, Atlanta, GA, October 24–25, 1985, one page abstract.
5. Concerning some axioms for a fragment of approximate reasoning. *Recent Developments in the Theory and Applications of Fuzzy Sets, Proceedings of the North American Fuzzy Information Processing Society, NAFIPS'86*, New Orleans, Louisiana, June 2–4, 1986, pp. 516–523.
6. Schneider, M., Schwartz, D., and Kandel, A., Fuzzy expert systems for pattern recognition. *Proceedings of the North American Fuzzy Information Processing Society, NAFIPS'88*, San Francisco, California, June 8–10, 1988, pp. 206–210.
7. A computationally simple interpretation of linguistic decision rules. *Proceedings of the North American Fuzzy Information Processing Society, NAFIPS'88*, San Francisco, California, June 8–10, 1988, pp. 216–220.
8. A prototype expert system shell for reasoning with imprecise information—a progress report. *Proceedings of the North American Fuzzy Information Processing Society, NAFIPS'90*, Toronto, Ontario, Canada, June 6–8, 1990, pp. 269–272.
9. A connection between fuzzy quantifiers and the classical modalities, *Proceedings of the International Joint Conference of The North American Fuzzy Information Processing Society Biannual Conference, The International Fuzzy Control and Intelligent Systems Conference, and The NASA Joint Technology Workshop on Neural Networks and Fuzzy Logic, NAFIPS/IFIS/NASA'94*, San Antonio, TX, December 18–21, 1994, pp. 310–314.
10. Default reasoning with qualified syllogisms, *Proceedings of the Third International Symposium on Uncertainty Modelling and Analysis and the Annual Conference of the North American Fuzzy Information Processing Society, ISUMA/NAFIPS'95*, College Park, MD, September 17–20, 1995, pp. 396–401.
11. Intelligent indexes with inheritable fuzzy relations, *Proceedings of the North American Fuzzy Information Processing Society, NAFIPS'99*, New York, NY, June 10–12, 1999, pp. 371–375.
12. Łukasiewicz inference in Layman's Probability Theory, *Proceedings of the North American Fuzzy Information Processing Society, NAFIPS'2000*, Atlanta, GA, July 13–15, 2000, pp. 420–423.

Regional Meetings

1. Lee, M.J. and Schwartz, D.G., A scheme for logical inference with linguistic attributes. *Proceedings of the Florida Artificial Intelligence Research Symposium, FLAIRS'88*, Orlando, Florida, May 4–6, 1988, pp. 208–212.

2. A new approach to representing imprecise linguistic inferences. *Proceedings of the Florida Artificial Intelligence Research Symposium, FLAIRS'89*, Orlando, Florida, April 3–7, 1989, pp. 238–240.
3. Tamir, D.E., Schwartz, D.G., and Kandel, A., An expert system for computer aided design utilizing a pattern recognition interpretation of implications. *Proceedings of the Florida Artificial Intelligence Research Symposium, FLAIRS'89*, Orlando, Florida, April 3–7, 1989, pp. 86–90.
4. Kirmse, A. and Schwartz, D.G., A first-order logic of chronological ignorance, *Proceedings of the Florida Artificial Intelligence Research Symposium, FLAIRS'89*, Orlando, Florida, April 3–7, 1989, pp. 128–132.
5. Lamm, J. and Schwartz, D.G., A strategy for representing subjective rules, *Proceedings of the Florida Artificial Intelligence Research Symposium, FLAIRS'89*, Orlando, Florida, April 3–7, 1989, p. 258.
6. Chung, H.T. and Schwartz, D.G., LR/1: a Prolog-like system for reasoning with imprecise linguistic information. *Proceedings of the Florida Artificial Intelligence Research Symposium, FLAIRS'90*, Cocoa Beach, Florida, April 3–6, 1990, pp. 145–148.
7. Chung, H.T. and Schwartz, D.G., Design of an inference engine for reasoning with imprecise information, *Proceedings of the Florida AI Research Symposium, FLAIRS'91*, Cocoa Beach, Florida, April 2–5, 1991, pp. 22–26.

D. Technical Reports (Not Refereed)

The following were written as part of my assignment by the Office of Naval Research (ONR) during the summer of 1991.

1. Kahaner, D.K. and Schwartz, D.G., Fuzzy helicopter flight control, *Scientific Information Bulletin*, Office of Naval Research Asian Office, NAVSO P-3580, Vol. 16, No. 4, October–December, 1991, pp. 13–15.
2. Japanese Advances in Fuzzy Systems and Case-Based Reasoning, *Scientific Information Bulletin*, Office of Naval Research Asian Office, NAVSO P-3580, Vol. 17, No. 1, January–March, 1992, pp. 65–79.

E. Book Reviews

1. A general system logical theory, by G. Resconi and M. Jessel, *International Journal of General Systems*, 12 (1986) 159–182. *Computing Reviews: Review Journal of the Association for Computing Machinery*, Entry 8802-0102, Vol. 29, No. 2, Feb. 1988, p. 110.
2. The alternative mathematical model of linguistic semantics and pragmatics, by Vilém Novák, IFSR International Series on Systems Science and Engineering, Vol. 8, Plenum Press, New York and London, 1992. XIII + 204 pages, reviewed for *International Journal of General Systems*, 25, 2 (1996) 174–176.

F. Abstracts

1. Abstracts of [A.1], [A.2], [A.5], and [A.6], *Zentralblatt für Mathematik und ihre Grenzgebiete, Mathematics Abstracts*, entries 464.93010, 595.03017, 618.03027, and 618.03028, respectively.
2. Abstracts of [A.4] and [A.5], *The Philosopher's Index*, 1987 Cumulative Edition, p. 565.

Speeches and Addresses

Conference Presentations

The abovementioned conference articles were presented by me, with the exception of [C(*International*).1], [C(*National*).6], and [C(*Regional*).3–7]. Of the latter, the first was not presented inasmuch as I was unable to attend the conference, and each of the others was presented by the leading co-author.

Workshops

1. Schwartz, D.G. and Stoecklin, S., Case-based reasoning for critical infrastructure protection, Integration Workshop for participants in ARO MURI project “Modeling and simulation environments for critical infrastructure protection,” University of Central Florida, Orlando, Florida, January 4-5, 2002.
2. Schwartz, D.G. and Stoecklin, S., Adaptive case-based reasoning architectures for critical infrastructure protection, ARO MURI review of project “Modeling and simulation environments for critical infrastructure protection,” George Washington University, Washington, DC, May 15, 2002.
3. Schwartz, D.G., Adaptive case-based reasoning architectures for network intrusion detection, Technology Exchange meeting with US Army Information Assurance group at Aberdeen Proving Ground, September 24, 2002.
4. Schwartz, D.G., Adaptive case-based reasoning, Technology Exchange meeting with members of the US Army Information Assurance group from Aberdeen Proving Ground and other members of the ARO MURI Project “Modeling and simulation environments for critical infrastructure protection,” at University of Wisconsin, Madison, September 24, 2002.
5. Schwartz, D.G., Overview of work by Stoecklin and Schwartz on the ARO MURI project for a meeting with representatives from the Florida Department of Law Enforcement regarding creation of new Cybersecurity Institute, Florida State University, Department of Computer Science, October 23, 2002.
6. Schwartz, D.G., Stoecklin, S., and Guha, R., Case-based agents for intrusion detection in ad hoc wireless networks, Integration Workshop for participants in ARO MURI project “Modeling and simulation environments for critical infrastructure protection,” University of Central Florida, Orlando, Florida, January 16-17, 2003.
7. Schwartz, D.G., Overview of work by Stoecklin and Schwartz on the ARO MURI project for a Workshop on Critical Infrastructure Protection hosted by the FSU Computer Science Department’s Security and Assurance in Information Technology Laboratory, February 12, 2003.

8. Schwartz, D.G. and Stoecklin, S., Adaptive Case-Based Security Framework for CIP, Annual Army Research Laboratory review of the MURI project, "Modeling and simulation environments for critical infrastructure protection," at University of Wisconsin, Madison, May 13, 2003.
9. Schwartz, D.G. and Stoecklin, S., A Case-Based Reasoning Framework Using Adaptive Software Architectures, technology transfer presentation at the Army Research Laboratory, Adelphi, MD, October 12, 2003.
10. Schwartz, D.G., Long, J., Patel, M., Case-Based Reasoning and Data Mining: Applications to Network Intrusion Detection, Annual Army Research Laboratory review of the MURI project, "Modeling and simulation environments for critical infrastructure protection," at University of Central Florida, May 20-21, 2004.
11. Schwartz, D.G., Stoecklin, S., and Long, J., Adaptive Architectures for Intrusion Detection, Annual Army Research Laboratory review of the MURI project, "Modeling and simulation environments for critical infrastructure protection," at University of Central Florida, June 1-2, 2005.

Colloquia

1. *Retranslatability and computational complexity in fuzzy-set representations of linguistic imprecision.* Florida State University Cognitive Science Institute, March 25, 1987.
2. *A symbolic approach to approximate reasoning.* Given at the following 7 places during Summer 1991: Kansai University, Department of Industrial Engineering, Osaka, May 30; Kyushu Institute of Technology, School of Computer Science and Systems Engineering and the Fuzzy Logic Systems Institute, Iizuka, June 6; Osaka Prefecture University, Department of Industrial Engineering, Osaka, June 18; Matsushita Electric Industries, Central Research Laboratory, Osaka, June 27; Osaka Institute of Technology, School of Industrial Engineering, Osaka, June 28; Intelligent Technology Incorporated, Tokyo, July 17; Meiji University, Faculty of Engineering, Tokyo, July 26.
3. *Dynamic reasoning with qualified syllogisms.* Given at the following 2 places during Fall 1994: Beckman Institute, University of Illinois at Urbana-Champaign, October 4 and Department of Mathematics, University of Illinois at Urbana-Champaign, November 29.
4. *An overview of Artificial Intelligence and its relation to Cognitive Science.* A guest lecture given for the FSU Psychology Department's first year graduate students in Cognitive and Behavioral Science, March 15, 1995.
5. *A logic of qualified syllogisms.* Department of Philosophy, Florida State University, April 14, 1995.
6. *Dynamic reasoning with qualified syllogisms.* Institute for Human and Machine Cognition, University of West Florida, May 9, 1996.
7. *Dynamic reasoning with qualified syllogisms.* Department of Computer Science, Florida State University, October 19, 1996.

Patents

An Adaptive Case-Based Reasoning Framework, Disclosure submitted to FSU Technology Transfer 2/2003.

Research Grants

1. State University of New York at Binghamton, Summer Research Grant, 6/82
2. State University of New York, UAP Summer Research Fellowship, 7–8/82
3. Florida State University, Council on Research and Creativity, First Year Assistant Professor Support Grant, 6–8/85, \$8,266.
4. Florida State University, Council on Research and Creativity, COFRS Summer Support Grant, 1987, \$3,470. Award declined after receiving ONR grant.
5. Office of Naval Research, *Automated Theorem Proving in the Theory of Approximate Reasoning, with Applications to Logic Programming and Expert Systems*, N00014-87-J-1219, 5/1/87–4/30/91, \$210,000.
6. Office of Naval Research, *Japan Fact-Finding Trip*, N00014-91-J-1922, 5/1/91–8/31/91, \$20,000.
7. Office of Naval Research, *A New Formulation of Fuzzy Quantification*, N00014-92-J-1749, 5/1/92–9/30/92, \$33,218.
8. Florida State University, Council on Research and Creativity, Summer Support Grant, 6–8/95, \$8,000.
9. Army Research Office, The case-based reasoning component of a large, 4-university, 11-investigator DoD MURI project entitled *Modeling and Simulation Environment for Critical Infrastructure Protection*, based at the University of Wisconsin, Madison, 5/1/01–4/30/06, shared with Sara Stoecklin, \$396,163.
10. Army Research Office, DURIP proposal, *Grid Computing for Collaborative Large Scale Computing*, Equipment request in collaboration with Sara Stoecklin at FSU, Jagdish Chandra at George Washington University, and Ratan Guha at University of Central Florida, to support/enhance our part of the DoD MURI effort cited above. FSU's share is \$48,106 and includes a 16-node Sun Microsystems cluster computer. Submitted Fall 2003; a revision of a proposal submitted in Fall 2002. This award is shared with Sara Stoecklin.

Grant Proposals Pending

1. National Science Foundation, *Dynamic Reasoning Systems: A General Framework for Belief Revision*, 3 years, \$272,090, submitted 12/08.

Grant Proposals in Progress

1. National Science Foundation, and probably also ARO, ONR, and AFOSR, a new version of *Computational Agents: Assault on Complexity Using Self-Replicating Automata*, originally submitted June 2007.

2. Have been working with Ray Bye in the Office of Research, together with members of CAPS (Center for Advanced Power Systems), LSI (Learning Systems Institute), and people in Industrial Engineering, as part of a multi-university effort to obtain funding from the DHS (Department of Homeland Security): working title *Survivable, Resilient, and Rapidly Recoverable Critical Infrastructures: A Florida System-wide Proposal for the Dept. of Homeland Security*. So far there have been several meetings, several white paper versions, and a preliminary budget.

Grant Proposals Submitted (since 1992) but Not Funded

1. National Science Foundation, Office of Naval Research, Air Force Office of Scientific Research, *A Symbolic Approach to Approximate Reasoning*, 2 years, submitted 1/92.
2. National Science Foundation, Office of Naval Research, Air Force Office of Scientific Research, *Investigations in Fuzzy Quantification, Usuality, and Likelihood*, 3 years, submitted 11/92
3. National Science Foundation, Office of Naval Research, Air Force Office of Scientific Research, *Dynamic Reasoning with Qualified Syllogisms*, 3 years, submitted 1/94.
4. National Science Foundation, *Formulation and Analysis of Dynamic Reasoning Systems*, 3 years, submitted 8/94.
5. National Science Foundation, *Dynamic Reasoning Systems*, 3 years, submitted 10/95.
6. Defense Advanced Research Projects Agency, *Ko-Op/Meta-Net: A Knowledge-Sharing Cooperative for Indexing Large Digital Collections*, 3 years. A collaborative effort with Myke Gluck, School of Information Studies, and Saul Youssef, SCRI. Proposal abstract submitted 11/96. Final proposal submitted 2/97.
7. National Science Foundation, Small Business Innovation Research, Phase I, *Ko-Op/Meta-Net: A New Methodology for Indexing Large Digital Collections*, submitted 6/97.
8. National Science Foundation, *Theory and Application of Dynamic Reasoning Systems: Intelligent Indexes for Digital Libraries*, 3 years, \$379,000, submitted 1/98, then withdrawn 7/98 and replaced with the following.
9. National Science Foundation, Defense Advanced Research Projects Agency, et al., *Community-Created Intelligent Ontologies for Indexing Distributed Multimedia Collections*, 3 years, \$491,000, submitted 7/98.
10. National Science Foundation, *Community-Created Ontologies for Indexing Distributed Digital Collections*, 3 years, \$453,042, submitted 9/99
11. National Science Foundation, *GNOSYS: A Prototype Next-Generation Knowledge Management System*, 3 years, \$536,110, submitted 8/00
12. Advanced Research and Development Activity (DoD), *Community-Driven Knowledge-Based Question Answering Systems*, 2 yrs, \$260,853, May 2001

13. National Science Foundation, Visualization of Semantic Information, submitted February 2002, 3 years, \$228,536.
14. Defense Advanced Research Projects Agency (DARPA), Visualization of Semantic Information, Submitted September 2002, 3 years \$236,913.
15. National Science Foundation, *Visualization of Semantic Information*, submitted February 2003, 3 years, \$232,703.
16. National Science Foundation, *Human and Organizational Factors of Cybersecurity*, in collaboration with Sara Stoecklin at FSU and cdPascale Carayon at University of Wisconsin, Madison. For 5 years, FSU's share is \$676,079. Submitted February 2003.
17. National Science Foundation, *Visualization of Semantic Information*, submitted January 2004, revision of proposal submitted February 2003, 3 years, \$232,719.
18. National Science Foundation, *Human and Organizational Factors of Cybersecurity*, in collaboration with Sara Stoecklin at FSU and Pascale Carayon and others at University of Wisconsin, Madison, 5 years, FSU's share is \$715,946. Submitted February 2004.
19. National Science Foundation, *Red Teaming for Cybersecurity*, in collaboration with Sara Stoecklin at FSU and Pascale Carayon and others at University of Wisconsin, Madison, 5 years, FSU's share is \$715,946. Submitted March 2004.
20. National Science Foundation, Community-Based Ontology Management: Collaborative Indexing for Large Digital Archives, 3 years, \$235,496, submitted April 2005.
21. National Science Foundation, in collaboration with Glen Doran and Rachel Wentz, FSU Anthropology Department, Human Osteological Database, 3 years starting 6/1/06, total requested is \$768,966, Computer Science Department share is approx. 30% = \$230,690, submitted December 2005.
22. Technical Support Working Group, *SCADA Cyber Attack alert Tool – "SCADA True Alert"*, in collaboration with Rick Meeker, FSU Center for Advanced Power Systems. Quad chart submitted May 2006; accepted June 2006. White paper submitted July 2006. \$255,00 for 2 years.
23. National Science Foundation and Army Research Office, *Computational Agents: Assault on Complexity Using Self-Replicating Automata*, 3 years, submitted June 2007.
24. National Science Foundation, *Dynamic Reasoning Systems: A General Framework for Belief Revision*, 3 years, \$272,090, submitted 10/07.
25. Department of Defense - Cooperative Threat Reduction Program, *Case-Based Software Project Cost Estimation Support*, 1 year, \$96,630, submitted 1/08.

Teaching and Training

Courses Taught

Fall 1984

COP 3120, Cobol Programming
COP 4502, Theory of Programming Languages

Spring 1985

COP 3120, Cobol Programming
COP 4502, Theory of Programming Languages

Fall 1985

COP 4502, Theory of Programming Languages (two sections)

Spring 1986

COP 3120, Cobol Programming
COP 4502, Theory of Programming Languages

Summer 1986

COP 4531, Data Structures

Fall 1986

COP 4531, Data Structures
COP 5555, Foundations of Programming Languages

Spring 1987

COP 4531, Data Structures

Fall 1987

COP 5555, Foundations of Programming Languages

Spring 1988

COP 4502, Theory of Programming Languages

Fall 1988

COP 5020, Foundations of Programming Languages

Fall 1989

CDA 4101, Computer Organization
COP 5020, Foundations of Programming Languages

Fall 1990

CDA 4101, Computer Organization
COP 5020, Foundations of Programming Languages

Spring 1991

CDA 4101, Computer Organization

Fall 1991

COP 5020, Foundations of Programming Languages

Spring 1992

CDA 4101, Computer Organization

Spring 1993

COT 4210, Foundations of Computer Science

Summer 1993

CIS 4930/5930-a, Designing Expert Systems

Fall 1993
CEN 4681, Expert Systems
CIS 5930-b, Expert Systems

Spring 1994
COT 4210, Foundations of Computer Science
CIS 5930-c, Foundations of Artificial Intelligence

Summer 1994
CIS 4930/5930-a, Designing Expert Systems

Spring 1995
CAP 5600, Artificial Intelligence
CIS 4930-3/5930-1, Foundations of Artificial Intelligence

Fall 1995
COT 5540, Logic for Computer Science

Spring 1996
CAP 5600, Artificial Intelligence
COP 5025, Foundations of Programming Languages

Fall 1996
CIS 4930, Logic for Computer Science
CIS 5935, Introduction to Research

Spring 1997
COP 5025, Foundations of Programming Languages

Fall 1997
CIS 5930, AI and the Internet

Spring 1998
COP 5025, Foundations of Programming Languages

Fall 1998
COP 2000, Introduction to Computer Science

Spring 1999
COP 2000, Introduction to Computer Science
CAP 5600, Artificial Intelligence

Fall 1999
COP 2000, Introduction to Computer Science

Spring 2000
COT 4210, Computer Theory

Fall 2000
CIS 3931, Internet Applications with Java

Spring 2001
CIS 3931, Internet Applications with Java

Summer 2001
COT 5540, Logic for Computer Science

Fall 2001
CIS 3931, Internet Applications with Java

Spring 2002
CIS 3931, Internet Applications with Java

Fall 2002
COP 4710, Database Systems

Spring 2003
COP 3252, Internet Applications with Java
COT 5540, Logic for Computer Science

Fall 2003
CGS 5822 (co-listed as CIS 4930), Enterprise Systems Programming
COT 5540, Logic for Computer Science

Spring 2004
CAP 5605, Artificial Intelligence

Fall 2004
COP 4710, Database Systems
COT 5540, Logic for Computer Science

Spring 2005
CAP 5605, Artificial Intelligence

Fall 2005
COP 4710, Database Systems
COP 5818, Distributed Applications Development, co-listed with COP 4813, Web Applications Programming

Spring 2006
CAP 5605, Artificial Intelligence

Summer 2006
COT 5540, Logic for Computer Science

Fall 2006
On sabbatical

Spring 2007
On sabbatical

Summer 2007
CAP 5605, Artificial Intelligence

Fall 2007
CAP 5605, Artificial Intelligence

Spring 2008
COT 5310, Theory of Automata and Formal Languages

COP 5818, Distributed Applications Development, co-listed with COP 4813, Web Applications Programming

Fall 2008

CAP 5605, Artificial Intelligence

Courses Supervised

Spring 1992

CGS 2060, Computer Literacy

Fall 1992

CGS 3462, Pascal for Nonspecialists

Fall 1996

CGS 3462, Pascal for Nonspecialists

Spring 1997

CIS 3066, Navigating the Internet

Undergraduate Honor's Theses

Donald J. Scott (Fall 2003), Dynamic Probabalistic Retransmission in Ad Hoc Networks (advisor: A. Yasinsac)

Masters Committee Memberships

1. John Glasgow (Fall 1984)
2. Kung-Wha Oh (Fall 1985)
3. Zofia Roberts (Summer 1986)
4. Saud Muthmi (Fall 1986)
5. Vasudev Murthy (Spring 1987)
6. Sanjay Sharma (Summer 1988)
7. Ravindra Prasad Raavi (Fall 1988)
8. Cheng-Cheng Chang (Fall 1988)
9. Ming-Hui Ko (Fall 1988)
10. Kuo-Gee Hsieh (Fall 1988)
11. Yi Chun Wu (Fall 1988)
12. Bai-Heng Henry Wang (Spring 1989)
13. Dawn J. Holmes (Fall 1989)
14. Richard Hopkins (Spring 1990)
15. Daryl Plummer (Fall 1990)
16. Jai-Hwa Sun (Spring 1991)
17. Shu-Jan Chen (Summer 1992)

18. John R. Surdu (Spring 1995)
19. Mehmet Burak Imir (Spring 1996)
20. Durga Pillalamarri (Summer 1996)
21. David Seebran (Summer 1996)
22. Larry Weinstein (Spring 1997)
23. Lin Mei (Spring 1998)
24. Brock Stitts (Fall 1998)
25. Mike Ranney (Fall 2000)
26. Karen Willow Shanti (Spring 2001)
27. Ashley Board (Spring 2001)
28. Wei Zheng (Summer 2001), A Comparative Study of Quality of Service Routing Schemes That Tolerate Imprecise States of Information (advisor Xin Yuan)
29. Yilei (Maggie) Wang (Fall 2001), The Online Real-Time Classroom: A Java Enterprise Application (advisor Robert van Engelen)
30. Anatoly Resnik (Spring 2002), An Evaluation of Web Application Server Technology, programming project (advisor Gregory Riccardi)
31. Shayne Steele (Fall 2002), Java On-Line Tutorial Tools, programming project (advisor Lois Hawkes)
32. Tysen Leckie (Fall 2002), Anomaly-Based Security Protocol Attack Detection, masters thesis (advisor Alec Yasinsac)
33. Darui Xu (Fall 2002), A Java Implementation of the Simple Object Access Protocol, programming project (advisor Robert van Engelen)
34. Yi Huang (Fall 2002), SSL and SSL Proxt Support for SOAP/XML Web Services, programming project (advisor Robert van Engelen)
35. Haitao Wu (Fall 2002), A GUI Implementation of Face Image Recognition Using Spectral Histogram, programming project (advisor Xiuwen Liu)
36. Alain Coutu (Spring 2003), Automated Refactoring Tool, programming project (advisor Sara Stoecklin)
37. Changyun Wang (Spring 2003), Bayesian Belief Networks, programming project (advisor Robert van Engelen)
38. April Williford (Summer 2003), Webpoint-Java: An Enterprise GIS Spatial Data Editing Tool, programming project (advisor Xiuwen Liu)
39. Josh Hone (Summer 2003), Grid Computing for Physics Environments, (advisor Larry Dennis, Physics)
40. Rohith Gowda (Fall 2003), A Telecom billing Application, programming project (advisor Robert van Engelen)

41. Sergio Souza (Fall 2003), Experimenting with Technologies for Development and Integration of Distributed Systems, programming project (advisor Greg Riccardi)
42. Donghu Sun (Spring 2004), A Study of Image Representations for Content-Based Image Retrieval, thesis (advisor Xiuwen Liu)
43. Svitlana Mazurkova (Summer 2004), Prospects and Realities for the Grid, programming project (advisor Greg Riccardi)
44. Srikanth Bolisetty (Fall 2004), A Fault Tolerant Error Detection and Verification Approach, programming project (advisor Lois Hawkes)
45. Vikram Thakur (Summer 2005), WinPatch—Patch Analyzer and Applier, programming project (advisor Lois Hawkes)
46. George Gilman (Fall 2005), A Reflection Based Framework for Automation of Parameter Variations in Simulation, thesis (advisor Chris Lacher)
47. Adam Chapman (Spring 2006), A Dynamic Perimeter Based, Community-Centric Access Control System, thesis (advisor Mike Burmester)
47. Kenneth Ayers (Fall 2008), Expert System Ruleset Portability using the Language Abstraction for Rule-Based Knowledge-Systems (LARK) Engine, thesis (advisor Chris Lacher)

Masters Directorships

1. Jeff Shaunessey (Spring 1986), programming project
2. Arnold Cho (Fall 1986), programming project
3. Ming-Jou Lee (Spring 1988), programming project
4. Chung-Hwa Johnny Lin (Summer 1988), programming project
5. Yith-Jun Liang (Spring 1989), programming project
6. Alexander Kirmse (Summer 1989), thesis, Reasoning about plan execution using temporal logic
7. Chi-Hau Lee (Fall 1989), programming project, A Linguistic Variable Data Base for a Fuzzy Expert System Shell
8. Chi-Lung Lee (Fall 1989), programming project, An Inference Rule Data Base for a Fuzzy Expert System Shell
9. Pei-Chuan Hsu (Spring 1990), programming project, An Inference Engine for a Fuzzy Expert System Shell
10. Neil Kipp (Spring 1990), programming project, A Document Formatter for the Standard Music Description Language
11. Yip-Ping Tony Yang (Spring 1990), programming project, DB2TEX: A DBASE IV to TEX Bibliographic Reference Formatter
12. Yun-Lin Yeh (Spring 1991), programming project, LVfms: A Linguistic Variable File Management System for a Fuzzy Expert System Shell

13. Ching-Huang David Tsai (Spring 1991), programming project, IRfms: An Inference Rule File Management System for a Fuzzy Expert System Shell
14. Meng-Hsien Ko (Spring 1991), programming project, IFfms: An Individual Fact File Management System for a Fuzzy Expert System Shell
15. Wen-Wei Wayne Liu (Spring 1991), programming project, BIMS: A Bibliographic Information File Management System
16. Tzung-Yow Hwu (Summer 1992), programming project, ESfms: An Expert System File Management System for a Fuzzy Expert System Shell
17. I-Jen Lin (Summer 1992), programming project, KTree: A Knowledge Tree Constructor for A Fuzzy Expert System Shell
18. Gang-Ryung Uh (Fall 1992), thesis, Consumer Demand Expert System (CODES)
19. Yuanzhen Yao (Fall 1993), programming project, BIMS: A Bibliographic Information File Management System, Version 2
20. Richard Todd Spurlin (Spring 1994), thesis, An Expert System for Military Administrative Management
21. Ning Zhang (Fall 1996), programming project, A Graphical User Interface for BIMS
22. Xiang Liang Xia (Fall 1996), programming project, File Maintenance User Interface for BIMS
23. Min Zheng (Summer 1997), programming project, An Internet Accessible BIMS System
24. Debra Urquhart (Fall 1997), thesis, The Psychological Diagnostic Assistant: The Development of an Expert System
25. Biansheng Sun (Fall 1997), programming project, A Graphical Display of Concept Taxonomies Using a Java Applet
26. John Ryan (Spring 1998), programming project, An Implementation of A Concept Taxonomy, With a Java Client and a C++ Server
27. Yiqing He (Summer 1998), programming project, URL Organizer: A Windows Java GUI Application for Managing a Personal Digital Library
28. Yun Wu (Fall 1998), programming project, A Java Client-Server Implementation of a Concept Taxonomy Using an Oracle Database
29. Ying Song (Spring 1999), programming project, A Java Client-Server Implementation of a Catalog for Scholarly Literature
30. Haiying Chen (Summer 1999), programming project, An Implementation of a Concept Taxonomy Using Java Client-Server and MySQL Database
31. Mohammed Al-Zomai (Summer 1999), programming project, A Java Client-Server Implementation Of A Concept Taxonomy
32. Chengbin Yang (Spring 2000), programming project, An Application of J2EE: Y&Y On-Line Bookstore

33. Lingyan Zhu (Spring 2000), programming project, Concept Taxonomy Interface: A Java GUI Application For Managing a Personal Digital Library
34. Hui-Ling Chang (Spring 2000), programming project, A Java Graphical user Interface for a Bibliographic Cataloging System
35. Chao Yu (Spring 2000), programming project, On-Line Document Catalog and Retrieval System: A Java Web-based Database Application for Scholarly Literature
36. Haitao Xu (Spring 2000), programming project, A Multithreaded Java Implementation For a Digital Library Database System
37. Hong Qi Jia (Summer 2000), programming project, Concept Taxonomy Interface: A Java 3D Display of an Indexing System for Digital Libraries
38. Jianguo (John) Wang (Summer 2000), URL Organizer: A Windows Java GUI Application for Managing a Bookmark Database, programming project
39. Jiankui (Jack) Yu (Fall 2000), Online Database Development and Management System, programming project
40. Mingxia Ren (Fall 2000), An Application of Java Servlets—An Online Library, programming project
41. Rachenewan Devanas (Fall 2000), World Holidays Projection System, programming project
42. Manxing Huang (Fall 2000), Concept Taxonomy Interface and Database Management System for On-Line Library, programming project
43. Guang Fu (Fall 2000), A Java Client-Server Implementation of a Dynamic Reasoning System, programming project
44. Jin Shang (Spring 2001), An Application of JavaScript, Java Servlets, and Java Server Pages with Cookies: An On-Line Document Record System, programming project
45. Madhavi Kotturu (Spring 2001), An Online Catalog of Scholarly Literature, programming project
46. Sathish Mohan (Summer 2001), Concept Taxonomy Interface: A 3D Display of an Indexing System for Digital Libraries), programming project
47. Haiyan Lin (Summer 2001), URL Organizer: A Java Client/Server Application for Managing a Bookmark Database, programming project
48. Tao Ma (Fall 2001), An On-Line Database Management System Using Java Server Pages and Java Beans, programming project
49. Vivek Sarada (Fall 2001), An On-Line Concept Taxonomy Management System Using Java Server Pages and Oracle, programming project
50. Aditi Madane (Fall 2001), On-Line Database Management System—Java Applet GUI Query Module, programming project
51. Zhen Tao (Spring 2002), Concept Taxonomy Interface: A Java Web-Based Database Application, programming project

52. Wenjin Zhang (Spring 2002), Bookmark Manager: A Java Application for Managing Bookmarks, programming project
53. Tamana Kazi (Spring 2002), Online Database Management System: A Web-Based Application, programming project
54. Dongsheng Li (Spring 2002), Pole Figure Viewer: An Application of Scientific Visualization in Crystal Orientation Study, programming project
55. Liangying Zhang (Spring 2002), An Online Questionnaire: A Java Enterprise Application, programming project
56. Saeed Tarokh (Summer 2002), An Algorithm for Knowledge Representation using Layered Directed Acyclic Graphs, programming project
57. Jiuhui Wang (Summer 2002), Room View: A Simple Interactive Java 3D Display, programming project
58. Bharath Allam (Summer 2002), The Bibliographic Information Management System (BIMS), programming project
59. Xi Rao (Summer 2002), Yahoo Database Project: Super Search Application, programming project
60. Yanling Li (Fall 2002), Concept Taxonomy Interface: A Client-Server Database Application Using Java Servlets and XML, programming project
61. Erbil Yilmaz (Fall 2002), An Adaptive Case-Based Reasoning Framework for Critical Infrastructure Protection, thesis
62. Ming Li (Fall 2002), Online Database Management System: Queries and Forms Modules, programming project
63. Wei Li (Fall 2002), Apache SOAP Implementation for a Microsoft Access Simulation, programming project
64. Liang Tong (Spring 2003), Pole Figure Viewer Development: An Application of Scientific Visualization for Crystal Orientation Study, programming project
65. Subhasis Das (Spring 2003), Web-Based Database Management System, programming project
66. Yan Mao (Summer 2003), Online Database Management System: Queries and Reports Modules, programming project
67. Paresh Jadhav (Fall 2003), The BOOKMARK Manager Web Service: A SOAP-based Application for Managing Bookmarks, programming project
68. Neeraja Reddy (Fall 2003), An Algorithm for Knowledge Representation Using Layered Directed Acyclic Graphs, programming project
69. Pitch Patarasuk (Summer 2004), Crossing Reduction for Layered Hierarchical Graph Drawing, thesis
70. Haifeng “Jim” Zhao (Summer 2004), Bookmark Organizer: A Java Application for Managing Bookmarks, programming project

71. Ferrell Aultman (Summer 2004), Speed Limit Detector Using the Global Positioning System, programming project
72. Miaomiao “Mimi” Xu (Summer 2004), Real Estate Listing Service Using Java Servlets and Java Server Pages, programming project
73. Susmitha Athota (Fall 2004), A Real Estate Listing Web Service using IBM Websphere, programming project
74. Zhenghai Yang (Spring 2005), Development of Soil Laboratory Assistant, programming project
75. Hang Wu (Spring 2005), Real Estate Listing Web Application Using Microsoft .NET Framework SDK1.1 and SQL2000, programming project
76. Qun Zhao (Spring 2005), Digital Library Document Catalog Retrieval System, programming project
77. Guohui Wang (Summer 2005), Publishing Geographic Data on the Web Using ArcIMS, programming project
78. Akhilesh Pillai (Fall 2005), Real Estate Listing Web Application Using Java Technology and Oracle 10g, programming project
79. Antony Pathrose (Fall 2005), Web Content Retrieval and Posting Application—An HTTP JAVA Client System, programming project
80. Fangyu Lin (Spring 2006), Online Bookstore Web Application Using Microsoft .NET and SQL2000, programming project
81. Mayurika Saha (Spring 2006), Online Holiday Management Systems, programming project
82. Parixit Parekh (Spring 2006), Java Applet Based Database Management Interface, programming project
83. Michael Smith (Spring 2006), The Game Plan Generator: A .NET Application for the FSU Football Team, programming project
84. Preetha Annamalai (Summer 2006), Medical Emergency Data Information Center (M.E.D.I.C), programming project
85. Chinmay Gandhi (Summer 2007), Online Holiday Management System, programming project
86. Prakash Mohan (Fall 2007), JExplorer, programming project
87. Ajay Boindala (Fall 2008), A Web-Based Holiday Data Management System, programming project

Doctoral Committee Memberships

1. John Glasgow (Fall 1989)
2. Edward W. Giering III (Spring 1991)
3. Sujatha Nagarajan (Summer 1992)

4. Wenzhen Fang (Spring 1993)
5. Young Do Joo (Spring 1995)
6. Li Li Yuan (Spring 1997)
7. Chan-Sook Noe (Summer 1997)
8. Bobby Granville (Spring 1998)
9. Larry Weinstein (Fall 1999)
10. Courtney Smith (prospectus, Spring 2001; dissertation Fall 2001; advisor Hawkes).
11. Sang Boem Lim (survey paper, Fall 2001; prospectus, Spring 2002; dissertation, Summer 2003; advisor Erlebacher/Fox), Platforms for HPJava: Runtime Support for Scalable Programming in Java
12. Han-Ku Lee (survey paper, Fall 2001; prospectus, Spring 2002; dissertation, Summer 2003; advisor Erlebacher/Fox), Towards Efficient Compilation of the HPJava Language for High Performance Computing
13. Sangmi Lee (survey paper, Fall 2001; prospectus, Spring 2002; advisor Erlebacher/Fox)
14. Jason Black (prospectus, Fall 2002; revised prospectus, Summer 2003; dissertation, Fall 2004; advisor Hawkes)
16. Ozgur Balsoy (survey paper, Summer 2002; prospectus, Fall 2003; advisor Erlebacher/Fox)
17. Jiangyi Hu (area exam, Spring 2004; prospectus, Fall 2004; advisor Burmester)
18. Huey Ling Toh (in progress; propsectus, Spring 2007; advisor Hawkes)
19. Subhajit Datta (in progress: area exam, Fall 2006; prospectus, Summer 2007; advisor, vanEngelen).
20. Wayne Liu (in progress: prospectus, Fall 2007; advisor, Aggarwal)

Doctoral Directorships

Completed

1. James E. Lamm (Spring 1993), Modified Election Methodology: A Methodology for Describing Human Beliefs
2. Hsing-Tai Chung (Summer 1994), An Automated System for Symbolic Approximate Reasoning
3. Jidong Long (started Summer 2003; finished Summer 2006), A Case-Based Framework for Meta Intrusion Detection
4. Stanislav Ustymenko (started Summer 2004; area exam, Spring 2005; prospectus, summer 2007; dissertation, first try, Fall 2007; finished Spring 2008), Multiagent Dynamic Reasoning about Belief and Trust

Left Without Finishing

1. Mahesh Patel (started Fall 2002; prelims area exam, Fall 2003; left for industry job, Summer 2004; dropped out of doctoral program)
2. Wayne Liu (started Fall 2004; prelims area exam, Spring 2006; prospectus, Fall 2007; changed to Sudhir Aggarwal, Fall 2006)
3. Erbil Yilmaz (started Summer 2001; left for industry job, Spring 2003; completed prelims area exam, Summer 2003; still enrolled as of Spring 2008)

In Progress

1. Yue Qui (started Fall 2007; taking courses)

Service

Departmental Committees

Advisory Committee on Selection of Chair: Fall 1993

Cognitive Science Institute Representative: Summer 2004 - Summer 2006, Fall 2007 - present

Colloquium Series Chair: Fall 2002 - Summer 2006, Fall 2007 - present

Curriculum Committee: Fall 1987 – Summer 1988, Fall 1993 – Spring 1996

Doctoral Preliminary Examination Committee: Chair, Spring 1985 – Summer 1987; Member, Fall 1988 – Summer 1989; Chair, Fall 1989 – Fall 1991; Member, Spring 1992 – Spring 1993; Chair, Spring 1997 – Summer 1998

Equipment Committee: Spring 1985 – Summer 1987, Spring 1988 – Spring 1990, Spring 2000 – Summer 2001; Chair, Fall 2001

Examiner for Doctoral Prelims: Programming Languages: 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1996. Formal Languages and Automata Theory: 1995, 1996 (we no longer give written prelims)

Executive Committee: Fall 1993 – Summer 1994

Faculty Evaluation Committee: Spring 1992 – Fall 1992, Spring 1994 – Fall 1994, Spring 1999 – Fall 1999

Graduate Admissions Committee: Fall 1991 – Summer 1998

Graduate Admissions and Financial Aid Committee: Fall 2002 - Summer 2003, Fall 2007 - present

Graduate Curriculum Committee: Fall 2003 - Summer 2004, Fall 2005 - Summer 2006, Fall 2007 - present

Graduate Financial Aids Committee: Fall 1991 – Spring 1993, Spring 1995 – Spring 2001

Honors Program Laison: Fall 2007 - present

Library Laison: Chair, Fall 1987 – Summer 1989, Fall 2005 - Summer 2006, Fall 2007 - present

PhD Portfolio Evaluation Committee: Chair, Fall 1998 – Summer 2002; Member, Fall 2003 - Summer 2005; Member, Fall 2008

SACS Committee: Fall 1992

Undergraduate Curriculum Committee: Fall 2002 - Summer 2003, Summer 2004 - Summer 2006, Fall 2007 - present

University Committees

Science Center Planning Committee: Spring 1992

Digital Libraries Committee: Fall 1993 – Spring 1994

Other Service to Department and University

Departmental representative to discussions concerning a proposed Florida Cooperative AI Research Center, Fall 1987 – Summer 1992

FSU representative at the SURAnet/Solinet Monticello Electronic Library meeting, July 29-30, 1993

Faculty Senate, Fall 1995 – Spring 1997

Discussions regarding a possible Joint Program in Mathematics and Computer Science, 1995–1996

Outside Representative on Doctoral Committees

1. Barry Bitters, FSU Geography (prospectus, Spring 2005; dissertation Spring 2005)
2. Jonathan Caro (Philosophy; prospectus, Fall 2004)
3. Wenlong Gao (Information Studies; prospectus, Fall 2007).

Service to Profession

Reviewer for the following:

Journals:

Artificial Intelligence (1/2005)

Computers and Chemistry (1989)

Fuzzy Sets and Systems (11/1990, 1/1992, 12/1992, 8/1993, 10/1993, 9/1994, 5/1995, 2/1996, 9/1997, 4/1998)

IEEE Spectrum (1992/a, 1992/b)

IEEE Transactions on Fuzzy Systems (7/1997)

IEEE Transactions on Knowledge and Data Engineering (2/1990)

IEEE Transactions on Neural Nets (10/1991)

IEEE Transactions on Systems, Man and Cybernetics (5/1992/a, 5/1992/b, 3/1998, 11/1998, 2/2000)

Information Sciences (1987, 3/1998, 4/2003, 7/2003)

Intelligent Systems in Accounting, Finance, and Management (9/1994)

International Journal of Approximate Reasoning (1/1990/a, 1/1990/b, 12/1993, 5/1995)

International Journal of General Systems (8/1993, 1996, 10/2002)

International Journal of Information Security (5/2008)
International Journal of Intelligent Systems (1987, 5/1995)
International Journal of Pattern Recognition and Artificial Intelligence (3/1998)
International Journal of Uncertainty, Fuzziness, and Knowledge-Based Systems
(5/1994, 9/1997, 8/2002)
Journal of Intelligent Information Systems (9/2002)
Journal of Intelligent Systems (5/1996, 2/1998, 2/1999/a, 2/1999/b)
Mathematics and Computer Modelling (8/2005)
Proceedings of the IEEE (3/2007)

Edited collections:

Article “Smart Card Security” for *The Handbook of Information Security*, Hossein Bidgoli (Ed.), John Wiley & Sons 7/2004.

Conferences:

International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE 08, 5 papers)
Florida Artificial Intelligence Research Symposium (FLAIRS’91, FLAIRS’92)
IEEE Conference on Fuzzy Sets and Systems (FUZZIEEE’94)
IEEE International Conference on Fuzzy Systems (FUZZIEEE’96)
International Conference on Intelligent Technologies, Bangkok, Thailand (InTech’00, 2 papers)
International Joint Conference on Artificial Intelligence (IJCAI’99, 3 papers); IJCAI’01, 1 paper)
Hawaii International Conference on System Sciences (HICSS-21 1987)
Joint Conference on Information Sciences, subconference on Fuzzy Theory and Technology (JCIS/FTT’00, 50 papers)
North American Fuzzy Information Processing Society (NAFIPS’86, NAFIPS’90, NAFIPS’91, NAFIPS’94)
Uncertainty in Artificial Intelligence (UAI’91)

Organizations:

National Science Foundation: proposal reviews (1990, 11/1998)
National Science Foundation: Served on review panel for the Knowledge Models and Cognitive Systems Program of the CISE Directorate, Washington, DC, (11/1997)
National Science Foundation: Served on review panel for the IIS ITR small proposals program (3/2003)
Natural Sciences and Engineering Research Council of Canada, proposal review (1990)
US Civilian Research & Development Foundation, Cooperative Grants Program, proposal review (2001)

Book Reviews

The book reviews cited in the foregoing publications list.

Reviews for Prentice Hall: User-Centered Web Site Design (McCracken and Wolfe) 5/2002; Java How to Program, 4th edition, CDROM (Deitel and Deitel) 6/2002; Putting Usability First (Jim Carter) 12/2002

Reviews for McGraw-Hill: Chapter 2 of Artificial Intelligence (Deepak) 8/2008.

Conference Management

Speaker Chair: Florida AI Research Symposium, FLAIRS'91

Session Chair: World Congress on Computational Intelligence, Third IEEE Conference on Fuzzy Sets and Systems, FUZZIEEE'94, Orlando, Florida, June 1994

Program co-chair and principal reviewer, 7th International Conference on Fuzzy Theory & Technology (FT&T 2000), held as part of the Fifth Joint Conference on Information Sciences (JCIS 2000), Atlantic City, NJ, Feb-Mar 2000

Other Activities

North Florida representative to the Florida Artificial Intelligence Research Society, Fall 1987 – Spring 1991; member of FLAIRS Board of Directors, Spring 1991 – Summer 1992