

## CURRICULUM VITAE

January 13, 2010

**RALPH A. MORELLI**  
Professor  
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### Education

- B.A., Mathematics, University of Connecticut, 1969
- M.A., Philosophy, University of Hawaii, 1975
- Ph.D., Philosophy, University of Hawaii, 1979.(Adviser: Irving M. Copi)  
Dissertation: *An Examination of Recent Proposals in the Theory of Reference*
- M.S., Computer Science, University of Hawaii, 1984

### Academic Appointments

1975-1982 Lecturer, Philosophy and Logic, University of Hawaii, Honolulu, Hawaii  
1983-1985 Assistant Professor & Coordinator, Computer Science, Hawaii Loa College, Hawaii  
1985-1991 Assistant Professor, Department of Engineering & Computer Science, Trinity College  
1991-1996 Associate Professor, Department of Engineering & Computer Science, Trinity College  
1992 Visiting Scientist, Carnegie Mellon University (Sponsor: Allen Newell)  
1996-2004 Associate Professor, Department of Computer Science, Trinity College  
1991-1996 Director, Computer Science Program, Trinity College  
1999-2002 Chair, Computer Science Department, Trinity College  
2004- Professor, Computer Science Department, Trinity College  
2006 Spring Acting Chair, Computer Science Department, Trinity College

### Courses Taught at Trinity

- CPSC 105 Computers and Modern Society
- CPSC 110-03 Computational Intelligence and Modern Society
- CPSC 110-06 Open Source Software for Humanity
- CPSC 205 History of Computing: A Technological Perspective
- CPSC 225 Topics in Application Programming: Humanitarian Free and Open Source Software
- CPSC 114 Introduction to Internet Computing
- CPSC 115L Introduction to Computing
- CPSC 215L Data Structures and Languages
- CPSC 230 Computer Organization and Assembly Language
- CPSC 306 Issues in Computing
- CPSC 315 System Software
- CPSC 316 Principles of Programming Languages
- CPSC 352 Artificial Intelligence
- CPSC 415 Special Topic in Computing: Unix Operating System
- CPSC 415 Special Topic in Computing: Computer Networking
- CPSC 426, 403-4 Computer Science Senior Seminar
- FYSM-122 First Year Seminar on Encryption
- FYSM-213 First Year Seminar on Computerization and Personal Privacy
- FYSM-183 Freedom and Openness Everywhere

## Grants & Awards

- (1989) Co-Principal Investigator (with B. Woolf, University of Massachusetts), “A Teachers’ Institute for Studying and Building Intelligent Tutoring Systems”, National Science Foundation Research Opportunity Award, June 1, 1988 - May 30, 1989.
- (1990) Co-PI (with A. Sapega & R. Walde, Trinity College), “An Undergraduate Computer Graphics Laboratory”, National Science Foundation Instrumentation and Laboratory Improvement Grant, July 1, 1988 - December 31, 1990.
- (1991) Co-PI (with R. Walde and M. Friedman, Trinity College), “Development of formal laboratory resources for introductory computer science courses,” New England Consortium for Undergraduate Science Education (NECUSE) Curriculum Development Grant, May - Sept., 1991.
- (1993-94) Co-PI (with R. Walde, Trinity College), “An electronic clearinghouse for introductory computer science resources,” Curriculum Development Grant from New England Consortium for Undergraduate Science Education, Jan. 1, 1993 - May 30, 1994. \$37,500
- (1993-94) Co-PI (with J. Larkin, Carnegie Mellon University), “Soar/ITS: A perception driven intelligent tutoring system architecture”, National Science Foundation Research Opportunity Award, June 1, 1993 - Nov. 30, 1994, \$32,265
- (1996) NEH Workshop on Ethics in Computer Science Education, Rensselaer Polytechnic Institute, Troy, NY. Summer 1996.
- (1996) Faculty Research Leave, “Soar/ITS: An Intelligent Tutoring System that Incorporates Machine Learning,” Trinity Faculty Research Committee, Fall 1996.
- (1999) NASA Space Grant Consortium Fellowship, “Development of Intelligent Agent Technology for Web Site Management”, Fall 1998 - Spring 1999.
- (2001) TCCTR Fellowship: “Netting Us Together: Technology, Culture and Society”, Trinity College Center for Collaborative Teaching and Research, Center Fellows Program, Spring 2001.
- (2005) Faculty Research Leave, “Cryptanalysis of a Three Rotor Machine Using a Genetic Algorithm, Trinity Faculty Research Committee, Spring 2005.
- (2006) Trinity College Howard Hughes Medical Institute travel expense grant, "Machine Learning and Bioinformatics," May 2006-May 2007, \$3500.
- (2007) Director, Aidmatrix Foundation grant to support summer 2007 undergraduate institute in Humanitarian-FOSS (Free and Open Source Software) development. May 2007, \$17,500.
- (2007) PI, "Can Humanitarian Open-Source Software Development Help Revitalize Undergraduate Computing Education?", National Science Foundation, CPATH:CB: Collaborative (With Wesleyan University and Connecticut College), Award #0722137, Sept. 2007-Aug. 2009, \$355,183.
- (2008) Co-PI (with PI Heidi. Ellis) "SOFTHUM: Student Participation in the Community of Open Source Software for Humanity," National Science Foundation, DUE-CCLI, Award #0736874, April 2008-March 2010, \$149,681.
- (2009) PI, Collaborative: Can Humanitarian Open-Source Software Development Help Revitalize Undergraduate Computing Education? National Science Foundation, Award # NSF-CCF-0934418 CPATH CB (Supplemental): Trinity College, Awarded 06/01/2009, \$10,334.
- (2009) PI, Collaborative: Can Humanitarian Open-Source Software Development Help Revitalize Undergraduate Computing Education? NSF-CCF-0934417 (Supplemental), Trinity College Awarded 05/15/2009, \$12,812.
- (2009) PI, Collaborative Research: Building a Community to Incorporate Humanitarian Free and Open Source Software into Undergraduate Computing Education , NSF-CCF-0939034, Trinity College, Awarded 09/08/2009, \$467,636.
- (2010) 2010 Faculty Fellow: Evolution in Nature and Society. Institute for the Study of Secularism in Society and Culture, Trinity College.

## Books and Monographs

- Bronzino, J.D. and Morelli, R.A. (1989). *Expert Systems: Basic Concepts*. Monograph Series of New Liberal Arts Program. Stony Brook, NY: Research Foundation of State University of New York.
- Morelli, R.A., Anselmi, D., Brown, M., Haberlandt, K. and Lloyd, D. (Eds.) (1992). *Minds, Brains and Computers: Perspectives in Cognitive Science and Artificial Intelligence*. New York: Ablex Publishing.
- Morelli, R.A. (2000, 2003, 2006 ) *Java, Java, Java: Object Oriented Problem Solving*, Prentice-Hall, 960 pages, ISBNs: 0-13-011332-8, 0-13-033370-0, 0-13-147434-0 (with Ralph Walde)
- *Instructor's Manual for Java, Java, Java :Object Oriented Problem Solving* Prentice-Hall, co-authored with Jamie Mazur (Trinity 2000) and Meisha Morelli (Amherst 2002), 520 pages. Available through the publisher.
- Online study guide for *Java, Java, Java : Object Oriented Problem Solving*. <http://www.prenhall.com/morelli>.
- Chinese Translation of 2<sup>nd</sup> Edition (2004), ISBN 7-5053-9920-9, 726 pages. Prentice-Hall and Pearson Education Asia Limited.
- Chinese Translation of 3<sup>rd</sup> Edition (2007), ISBN 978-7-302-16639-9, 743 pages. Pearson Education Asia Limited and Tsinghua University Press.

## Articles in Refereed Journals

- Morelli, R.A., Bronzino, J.D. and Goethe, J.W. (1987), Expert systems in psychiatry: A review. *Journal of Medical Systems*, Vol 11, No. 2/3, pp. 157-168, July 1987.
- Bronzino, J.D., Morelli, R.A. and Goethe, J.W. (1989). OVERSEER: A prototype expert system for monitoring drug treatment in the psychiatric clinic. *IEEE Transactions on Biomedical Engineering*, Vol 36, No. 5, pp. 533-540, May 1989.
- Walde, R.E. and Morelli, R.A. (1989). Chaos and Fractals on Your Personal Computer. *Journal of Computing in Higher Education*, Vol 1, No. 1, pp. 65-81, Spring 1989.
- Morelli, R.A. (1990). Using Knowledge Engineering to Teach Science. *IEEE Expert* 5(4), 74-78, August 1990.
- Morelli, R.A. (1990). The student as knowledge engineer: A constructivist model for science education. *Journal of Computing in Higher Education* 2(1), 78-102.
- Morelli, R.A., Walde, R.E., Akstin, E. and Schneider, C.W. (1991). L-system representation of speciation in the red algal genus *Dipterosiphonia* (Ceramiales, Rhodomelaceae). *Journal of Theoretical Biology* Vol. 149, pp. 453-465.
- Morelli, R.A., Bronzino, J.D. and Goethe, J.W. (1993). Conversations for Action: A Speech Act Model of Human-Computer Communication in a Psychiatric Hospital. *Journal of Intelligent Systems*, Vol. 3, No. 2-4, pp. 87-118.
- C. W. Schneider, R.E. Walde & R.A. Morelli. (1994). L-systems computer models generating distichous from spiral organization in the Dasyaceae (Ceramiales, Rhodophyta). *European Journal of Phycology*, Vol. 29: 165 - 170.
- Morelli, R.A., Walde, R.E. and Servos, W. (2004) A study of heuristic approaches for breaking short cryptograms. *International Journal on Artificial Intelligence Tools*, 13(1), pp. 45-64.
- Morelli, R.A., Tucker, A., Danner, N., de Lanerolle, T., Ellis, H.J.C., Izmirli, O., Krizanc, D., and Parker, G. Revitalizing Computing Education by Building Free and Open Source Software for Humanity. *CACM* 52(8), 67-75. August 2009.
- Morelli, R.A. The Babington Plot and the English College at Rome. *The Venerabile: Journal of the English College of Rome*. October 2009
- Morelli, R.A. Free and Open Source Software (FOSS) for Humanitarian Applications. *Bulletin des Seances*. Royal Academy of Overseas Sciences, Brussels, Belgium. Forthcoming 2010.

## Chapters in Books

- Morelli, R.A. and Brown, W.M. (1992). Computational Models of Cognition. In R. Morelli et al. (Eds) *Minds, Brains and Computers: Perspectives in Cognitive Science and Artificial Intelligence, Chapter 1*. New York: Ablex Publishing.
- Morelli, R.A. (1999) The World Wide Web and the Liberal Arts: Threat or Opportunity? In McLaughlin, M.W., Hyland, D.A., and Spencer, J.R., *Teaching Matters: Essays on Liberal Education at the Millenium*. (Hartford, CT: Trinity College Publication).

## Articles and Abstracts in Refereed Conference Proceedings (Presenter in bold)

- **Morelli, R.A.**, Bronzino, J.D. and Goethe, J.W. (1987). Expert systems in psychiatry: A Review. In R.R. Grams and R.H. Sprague (Eds.) *Proceedings of the Twentieth Hawaii International Conference on Systems Science*, Vol 3, pp. 84-93, January 1987.
- **Morelli, R.A.** and Bronzino, J.D. (1987). An expert system for vigilance state scoring in the rat. *Procs of the Thirteenth Northeast Bioengineering Conference*, Vol 1, pp. 249-251, March 1987.
- **Morelli, R.A.** (1988). Statement on computing resources in small colleges. *SIGCSE Bulletin*, Vol. 20, No. 1, p. 182, Feb. 1988.
- Bronzino, J.D., **Morelli, R.A.** and Goethe, J.W. (1988) OVERSEER: An Expert System Monitor for the Psychiatric Hospital. *Proceedings of the Twelfth Annual Symposium on Computer Applications in Medical Care*, pp. 8-12, Nov. 1988.
- **Morelli, R.A.** (1989). Artificial intelligence in psychiatry: Issues and questions. *Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, Vol 11, pp. 1812-1813, Nov. 1989.
- **Morelli, R.A.**, Bronzino, J.D., Goethe, J.W. and Hartmann-Voss, K. (1989). Incorporating a language/action design perspective into a computer-based psychiatric alerting system. *Proceedings of the Thirteenth Annual Symposium on Computer Applications in Medical Care*, pp. 129-133, Nov. 1989.
- **Morelli, R.A.** (1990). A language/action model of human-computer communication in a psychiatric hospital. *Proceedings of the Fourteenth Annual Symposium on Computer Applications in Medical Care*, pp. 574-578.
- **Higginbotham, C.** and **Morelli, R.** (1991). A system for teaching concurrent programming. *Proceedings of the 22<sup>nd</sup> SIGCSE Symposium, SIGCSE Bulletin 23*, pp. 309-316.
- **Morelli, R.A.**, Bronzino, J.D. and Goethe, J.W. (1991). A computational speech-act model of human-computer conversations. *Proceedings of the 1991 IEEE Seventeenth Annual Northeast Bioengineering Conference*, pp. 263-264.
- **Schneider, C.W.**, Walde, R.E., & Morelli, R.A. (1991) "L-system computer simulations of branching divergence in some dorsiventral Polysiphoniae (Rhodophyta, Ceramiales, Rhodomelaceae)," 4<sup>th</sup> International Phycological Congress, Durham, North Carolina J. Phycol. 27(S): 65. **(Abstract)**
- **Morelli, R.A.** (1993) "A cognitively based intelligent tutoring system architecture," *Proceedings of AI-ED 93: World Conference on Artificial Intelligence in Education*, Edinburgh, Scotland, p. 573. **(Poster Abstract)**
- **Morelli, R.A.** (1993) "Soar/ITS: A perception driven ITS architecture." *Proceedings of the Sixth Florida AI Research Symposium*, pp. 315-319.
- **Morelli, R.A.**, **Dinkins B.**, and Pelton, G. (1995) "Soar/ITS: A Tutoring Architecture that Learns," *Proceedings of AI-ED 95: World Conference on Artificial Intelligence in Education*, Washington, DC, p. 586. **(Poster Abstract)**
- **Morelli, R.A. and Walde, R.E.** (1996) "Cryptography and Cryptanalysis in Computer Science Courses," *The Journal of Computing in Small Colleges*, Vol. 11, No. 4, 58-67.
- **Kaplan, B.** and Morelli, R.A. (1996) "Involving Students in Evaluating the Acceptability of Computer Information Systems," *The Journal of Computing in Small Colleges*, Vol. 11, No. 4, 38-46.

## Articles and Abstracts in Refereed Conference Proceedings-Continued (Presenter in bold)

- **Kaplan, B.** and Morelli, R.A. (1996) "Preliminary Results from a Social Interactionist Evaluation of a Medical Expert System," *Proceedings: Seventeenth International Conference on Information Systems*, Cleveland, OH, December 1996, p. 479. **(Abstract)**
- **Kaplan, B.**, Morelli, R.A., and Goethe, J. (1997) "Preliminary Findings From an Evaluation of the Acceptability of an Expert System," *Extended Proceedings (CD-ROM) 1997 AMIA Annual Symposium (Formerly SCAMC: Twenty-First Annual Symposium on Computer Applications in Medical Care)*. Ed. D.R.Masys, Bethesda, Md: American Medical Informatics Association.
- **Morelli, R.A.** (1997) "Using Machine Learning to Acquire Domain Knowledge in an Intelligent Tutoring System", *Proceedings of the Tenth International Florida Artificial Intelligence Research Symposium*, Ed. D. Dankel, Daytona Beach, FL: Florida AI Research Society, 26-30.
- **Morelli, R.A.** (1997) "A WWW Client/Server framework for educational software," *Proceedings Educational Multimedia/Hypermedia and Telecommunications, 1997, Volume II*. Ed. T. Muldner, and T.C. Reeves. Charlottesville, VA: Association for the Advancement of Computing in Education, pp. 1324-1325. **(Extended Abstract)**
- **Morelli, R.A.** (1997) "Teaching the tutor: Acquiring domain knowledge through interactive instruction," *Proceedings Educational Multimedia/Hypermedia and Telecommunications, 1997, Volume II*. Ed. T. Muldner, and T.C. Reeves. Charlottesville, VA: Association for the Advancement of Computing in Education, pp. 1326-1327. **(Extended Abstract)**
- **Morelli, R.A.**, Walde, R.E., and Marcuccio, G. (2001). A Java API for Historical Ciphers: An Object Oriented Design Project, *Proceedings of the 2001 Conference of the Special Interest Group on Computer Science Education (SIGCSE)*, Charlotte, NC: pp. 307-311.
- **Morelli, R.A.** and Walde, R.E. (2003). "A word-based genetic algorithm for cryptanalysis of short cryptograms," *Proceedings of the 2003 Florida Artificial Intelligence Research Symposium*, Florida AI Research Society, pp. 229-233.
- Armen, C. and **Morelli, R.A.** (2005) "E-voting and computer science: Teaching about the risks of electronic voting technology." *Proceedings of the 10<sup>th</sup> Annual SIGCSE Conference on Innovation and Technology in Computer Science Education*. 227-231.
- **Morelli, R.A.** and Walde, R.E. (2006) Evolving keys for periodic polyalphabetic ciphers. *Proceedings of the 19<sup>th</sup> International Florida Artificial Intelligence Research Society Conference*, 445-450.
- **Ellis, H.J.C.**, Morelli, R.A., de Lanerolle, T.R., Damon, J., and Raye, J. "Can Humanitarian Open-Source Software Development Draw New Students to CS? *SIGCSE 2007 Technical Symposium on Computer Science Education*, Covington, KY, Mar. 2007, pp. 551-555.
- **Morelli, R.**, Ellis, H., de Lanerolle, T., Damon, J., and Walti, C. "Can student-written software help sustain humanitarian FOSS?" In *Proceedings of the 4<sup>th</sup> International ISCRAM Conference (B. Van de Walle, P. Burghardt, C. Niewenhuis, eds.)*, Delft, the Netherlands, May 2007, pp. 41-44.
- **Ellis, H.J.C.**, Morelli, R., de Lanerolle, T., and Hislop, G. "Holistic software engineering education based on an open source humanitarian project. In *Proceedings 20<sup>th</sup> Conference on Software Engineering Education and Training (CSEET)*, July 2007, pp. 327-335.
- **Morelli, R., de Lanerolle, T., Ellis, H., Danner, N. and Iyengar, J.** Workshop on Teaching and building humanitarian open source software. *Proceedings of the 39<sup>th</sup> Technical Symposium on Computer Science Education (SIGCSE 2008)*. Portland, OR, March 2008, DVD ISBN 978-1-59593-947-0.
- **Morelli, R., de Lanerolle, T., and Iyengar, J.** Workshop on Teaching and building humanitarian open source software. *Journal of computing sciences in small colleges*, 23 (5), Wagner College, NYC, May 2008, 5-6.
- **de Lanerolle T., Morelli R., Danner N., Krizanc D., Parker G., and Izmirlı O.**, Creating an academic community to build humanitarian FOSS: A progress report, in *Proceedings 5<sup>th</sup> International ISCRAM Conference (F. Fiedrich and B. Van de Walle, eds.)*, Washington, DC, USA, May 2008, 337-341.

- **Morelli, R. and de Lanerolle, T.** FOSS 101: Engaging Introductory Students in the Open Source Movement, In S. Fitzgerald, M. Guzdial, G. Lewandowski, S. Wolfman, & T.J. Cortina, *Eds. Proceedings of the 40<sup>th</sup> Technical Symposium on Computer Science Education (SIGCSE 2009)*, Association of Computing Machinery, 311-315, March 2009
- Hislop, G.W., **Ellis, H.J.C.**, and Morelli, R.A. Evaluating student experiences in developing software for humanity. ITiCSE09: Proceedings of the 14th annual ACM ITiCSE conference on Innovation and technology in computer science education, 263-267. July 2009.

#### **Other Presentations at Meetings and Workshops (Presenter in bold)**

- **Morelli, R.A.** "Curriculum Issues in Computer Science," NERCOMP Symposium on Computer Science and Information Systems: Curricula and Resources, Worcester Polytechnic Institute, Worcester, MA., May 1989.
- **Morelli, R.A.** "Intelligent Tutoring in Soar," Tenth Soar Workshop, University of Michigan, March, 1992.
- **Morelli, R.A.** "Soar/ITS: A perception driven ITS architecture." Eleventh Soar Workshop, Carnegie Mellon University, October 23-25, 1992.
- **Morelli, R.A.** "Laboratories for Introductory CS Courses", New England Consortium on Undergraduate Science Education (NECUSE) Workshop on The Introductory Computer Science Curriculum, Harvard University, Jan 24, 1993
- **Schneider, C.**, Walde, R. & Morelli, R (1993) "An L-system computer model generating distichous from spiral organization in the Dasyaceae (Ceramiales, Rhodophyta), Poster Presentation, 32<sup>nd</sup> Northeast Algal Symposium, Woodshole, MA, April 24-25, 1993.
- **Morelli, R.A.** "A WWW Resource for CS1," New England Consortium on Undergraduate Science Education NECUSE Computer Science Workshop, Harvard University, Jan 1995.
- **Morelli, R.A.** and **Walde, R.E.** "Cryptography and Cryptanalysis in Computer Science Courses," *First Annual Conference of the Small College Computing Conference, Northeast*, April 1996.
- **Morelli, R.A.**, **Prigodich, R.**, **Schneider, C.** and **Walde, R.** "Computer modelling in Botany and Chemistry: Case studies using L-systems," presented at the 6<sup>th</sup> National Conference, Council for Undergraduate Research, North Carolina Central Univ., Durham, North Carolina, June 1996.
- **Morelli, R.A.** "Issues for Recruiting and Retaining Women in Computer Science," Panel Presentation. Conference of the Special Interest Group in Computer Science Education (SIGCSE), Palo Alto, CA, February 1997.
- **Morelli, R. A.** "Java: Where Does it Fit in the CS Curriculum?," Panel Chair and Presentation. The Second Annual Northeastern Conference of the Consortium for Computing in Small Colleges, Northeastern University, Boston, MA, April 1997.
- **Morelli, R.A.** "Teaching Java in CS1: An Objects-First Approach," Panel Presentation, The Third Northeastern Conference of the Consortium of Computing in Small Colleges, Sacred Heart University, April 1998.
- **Morelli, R.A.** "Intelligent Agent Technology for Web Site Management," CT Space Grant Consortium 1998 Conference, Hartford, CT, October 1998.
- **Morelli, R.A.** "Teaching Java in CS1," Workshop at the North Carolina Conference for Community Colleges, Charlotte, N.C., March 2000.
- **Morelli, R.A.** "An Object-Oriented Design Project", Panel presentation at the Sixth Annual Northeastern Conference of the Consortium for Computing in Small Colleges, Middlebury College, April 2001.
- **Morelli, R.A.** and Aryal, S. "Analyzing Microarrays with Support Vector Machines: An Overview," Practicum on Bioinformatics in the Undergraduate Curriculum, Bates College, Lewiston, ME, July 2007.
- **DeLanerolle, T.**, Morelli, R., Russell, I., Thayer, S., Foecking, R., Garvey, M. Engaging students in the free and open source movement through civic engagement. Panel session, Grace Hopper Celebration of Women in Computing Conference. Keystone, CO, October 2008.

## Lectures and Talks (Invited talks are noted with §)

- § Artificial Intelligence and Epistemology, talk presented to the Epistemology Course at William Hall High School, April 22, 1986.
- Artificial Intelligence: Promise and Limits (with K. Haberlandt), Faculty Research Lecture Series, Trinity College, April 15, 1987.
- § What is Artificial Intelligence?, Connecticut Pre-Engineering Program, Trinity College, July 28, 1987.
- § Is Artificial Intelligence Possible?, Trinity Parent Trustees Association, April 23, 1988.
- § Computer Technology and Artificial Intelligence, Understanding Technology Day, Trinity College, December 7, 1988.
- Computer Models of Plant Evolution, with Professors Walde and Schneider, Faculty Lecture Series, January 23, 1991.
- § The Student as Knowledge Engineer, Computer Science Seminar, Westfield State College, February 27, 1991.
- Intelligent Tutoring in Soar, Cognitive Science Group, Trinity College, October 28, 1993.
- Surfing the Internet, Alumni Weekend, Trinity College, June 1995.
- Using the Internet in High School Science Courses, Classical Magnet Program, Hartford Public High School, October 1995.
- Surfing the Internet, Alumni Weekend, Trinity College, June 1996.
- Teaching a Computer to Tutor, Faculty Research Lecture, Trinity College, November 1997.
- Higher Education and the World Wide Web, Alumni Weekend, Trinity College, June 1998
- Globalization and Artificial Intelligence, High School Colloquium Series, Trinity College, February, 2001.
- § Privacy and the Internet, Connecticut Chapter of the American Society of Public Administration, Hartford, CT, May 2001.
- § Artificial Intelligence and Exponential Growth, Farmington Public Schools District Leadership Conference, Trinity College, January 2002.
- Computerization and Personal Privacy. Fellows Lecture, Trinity Center for Collaborative Teaching and Research, Trinity College, March 2002.
- § Artificial Intelligence and Exponential Growth, Connecticut Principals Center and the Connecticut Association of Public School Superintendents, Southbury CT, July 2002.
- § Computing Power and Scientific Discovery, High School Colloquium Series, Trinity College, November 2006.
- § Building Open Source Software to Help our Neighbors and Revitalize Computing Education. Bowdoin College Computer Science Lecture, Bowdoin College, Brunswick, ME, Jan 25, 2008 (with T. deLanerolle)
- § Building free software for society, A-V Davis Summer Program, Trinity, June 10, 2008.
- § Why students should learn how to build FOSS. University of Hartford---IEEE Chapter, Hartford, CT, April 16, 2009.
- § Free and open source software (FOSS) for humanitarian applications. The Royal Academy for Overseas Sciences, Brussels, Belgium, April 30, 2009.
- § Engaging students in the free and open source software (FOSS) movement. Real-time Systems Laboratory, Linköping University, Linköping, Sweden, May 7, 2009.
- § Engaging Student in Real World HFOSS Projects, NSF-Workshop Keynote, Middle Tennessee State University, June 25, 2009.
- § Free and Open Mobile Technologies for Crisis Response, Workshop, *ISCRAM PhD Summer School*, Tilbury University, The Netherlands, August 24-26, 2010.
- § Ciphers: Making and Breaking, Smithsonian Institute, Washington DC, October 30, 2009.
- § Incorporating HFOSS into Computer Science Courses, Middlesex Community College, N.J, November 20, 2009.

- § Using Evolutionary Algorithms to Solve Hard Problems, Institute for the Study of Secularism in Society & Culture, Trinity College, December 17, 2009.

## Selected Web Sites and Free and Open Source Software

- Home page, <http://turing.cs.trincoll.edu/~ram/>.
- Humanitarian FOSS Project, <http://www.hfoss.org>.
- Morelli, R. A. and Walde, R. E. Historical Cryptography, <http://starbase.trincoll.edu/~crypto/> ([www.cs.trincoll.edu/~crypto](http://www.cs.trincoll.edu/~crypto))
- HcryptoJ: An application programming interface for historical cryptography, <http://starbase.cs.trincoll.edu/~crypto/hcryptoj/> (Free and open source code on <http://sourceforge.net/projects/hcryptoj/>), 1995-2010.
- Morelli, R. A. *et al.*, VMOSS: Volunteer Management Open Source Software, <http://sourceforge.net/projects/vmoss/>.
- Morelli, R. A. HcryptoJ: Historical Cryptography in Java, <http://sourceforge.net/projects/hcryptoj/>.
- Morelli, R. A. *et al.* POSIT: Portable Open Search and Identification Tool, <http://posit.hfoss.org>.

## Professional Memberships

- Consortium for Computing in Small Colleges—Northeast Region, Board Member 1996-2004
- Association for Computing Machinery
- Institute of Electronic and Electrical Engineers, Computer Society
- Computer Professionals for Social Responsibility

## Trinity Service

- Computer Science Advisory Committee, 1985-1989, **Chair 1988-89.**
- Academic Computing Advisory Committee, 1986-87
- Academic Computing Review Board, 1987-1989, **Chair 1988-89.**
- Committee on Committees, 1987-90.
- Connecticut Science Fair, 1988-89, **Trinity Host and Liaison**
- The Friday Committee (ad-hoc curriculum advisory committee for Dean Jan Cohn), 1990-1992.
- Directory, Computer Science Department, 1991-1996
- Ad-hoc Science Chairs Committee, 1991-95, **Convener 1994-95**
- Mathematics Center Advisory Committee, 1991-94
- Educational Policy Committee: Member 1992-93, 2001-04, **Chair 2002-03**
- Curriculum Committee, 1992-1995
- Presidential Search Committee (Dobelle), 1994-95
- Trinity Re-accreditation Self-Study Steering Committee, 1994-95
- Trinity Representative, New England Conference on Recruitment and Retention of Minorities in Science, Smith College, Jan 1995
- Ad-hoc Faculty Advisory Group for Trinity Internship Program, 1994-5
- Individualized Degree Program, Council Member, 1995-96
- Connecticut Science Fair, Quinnipiac College, Spring 1998 (Trinity judge)
- Trinity First-Year Pre-Orientation Camping/Hiking Trip, Sharon, CT. August 1997
- Search Committee for the Director of the Hartford Science Math Magnet School, 1998-99.
- Information Technology Committee (ITEC), 1998-2000
- Chair, Computer Science Department, 1999-2002
- Science Center Advisory Committee, 1999-2002
- Science Center Director Search Committee, Spring 2002
- Trinity Registrar Search Committee, 2002.
- Academic Support Advisory Committee, Spring 2003.

- Presidential Search Committee (Jones), 2004.
- Financial Affairs Committee, 2005-2006.
- Appointments and Promotions Committee, 2006-2008

#### **Professional Service**

- Reviewer, World Conference on Artificial Intelligence in Education, Summer 1993, 1995
- Organizer, Artificial Intelligence Lecture Series (Trinity College), 1988-94
- Panelist, NSF Instrument and Laboratory Improvement Program, Jan 1994
- Board Member, Consortium for Computing in Small Colleges, 1996-
  - Speaker's Chair, Annual Conference, 1996
  - Papers Co-Chair, Annual Conference, 1997-98
  - Membership Chair, 1999-2002
  - Workshops/Tutorials Co-Chair, 2010
- Reviewer, Journal of Computing in Higher Education, 1997-9
- Reviewer, Florida Artificial Intelligence Research Symposium, 1999-
- Reviewer, Northeast Small College Computing Conference, 1999-
- Reviewer, Annual Conference for Computer Science Education (SIGCSE), 2000-
- Session Co-Chair, Reviewer, 5<sup>th</sup> International ISCRAM Conference, 2008.