

Roy P. Pargas

Curriculum Vitae

PROFESSIONAL EXPERIENCE

Clemson University

1987- , Associate Professor of Computer Science

1982-1987, Assistant Professor of Computer Science

University of North Carolina at Chapel Hill

1980-1982, Research Assistant

1975-1980, Teaching Assistant

Paper Industries Corporation of the Philippines, Bislig, Surigao del Sur, Philippines

1974-1975, Operations Research Analyst

De La Salle University, Manila, Philippines

1972-1974, Instructor of Mathematics

EDUCATION

Ph.D., Computer Science, The University of North Carolina at Chapel Hill, 1982

M.S., Computer Science, The University of North Carolina at Chapel Hill, 1981

B.S., Mathematics, Ateneo de Manila University, Quezon City, Philippines, 1971

CONSULTING EXPERIENCE

1. World Health Organization (WHO), Human Resources for Health, (HRH) Geneva, Switzerland, (2006-2008), with James Witte, Ph.D. Sociology, George Mason, developed SoftPoDD 2006, online survey system that helps member countries diagnose their HRH needs and dialogue with HRH communities about solutions
2. Electro-Biology, Inc., Marlow, OK, (1998-2001), developed company's computerized Balanced Inventory Flow Replenishment System
3. TAL, Ltd., Hong Kong, (1994), studied apparel plant of TAL, Ltd. and developed plan for installation of apparel manufacturing simulation software for company
4. Food Chemical News, Inc. (now subsidiary of CRC Press), Washington, D.C., (1983-1992), developed initial computerized subscription and desktop publishing system
5. Great Smoky Mountains National Park, Gatlinburg, TN, (1985-1987), developed Park's first computerized backcountry reservation system

AWARDS

1. 2004 Clemson University Board of Trustees Award for Faculty Excellence
2. 2003 Center for the Advancement of Teaching and Learning Award for Innovative Excellence in Teaching, Learning and Technology

CONTACT INFORMATION

School of Computing, 204 McAdams Hall, Clemson University, Clemson, SC 29634-0974
864.656.5855 (work); 864.650.4771 (cell); pargas@clemson.edu

PERSONAL

Married, US Citizen

SPONSORED RESEARCH (Current)

1. "Professional Development for Algebra Progress Monitoring", (co-PIs Anne Foegen, Pamela Stecker, James Witte, and Roy Pargas), Department of Education Institute of Education Sciences' (IES) Special Education Research Grant, \$940,793, August 1, 2009 – July 31, 2012.
2. "CU Thinking", (co-PIs Lisa C. Benson, David Bowman, Michelle P. Cook, and Roy P. Pargas), National Science Foundation Innovations in Engineering Education Curriculum, and Infrastructure (IEECI), \$400,000, August 1, 2009 – July 31, 2012.
3. "Transitioning through Technology: Using Digital Learning Environments in Calculus as a Collaborative Model to Advance STEM Students through Four-year Institutions", (co-PIs Marilyn Reba, Calvin Williams, and Roy Pargas), 2009 Hewlett-Packard Innovations in Education Grant, \$260,000, August 1, 2009 – July 31, 2011.
4. "Mathematics Partnering with Computer Science to Improve Calculus Instruction and Learning", (co-PIs Calvin L. Williams, Marilyn Reba, and Roy Pargas), National Science Foundation CCLI Type 2, \$415,203, August 1, 2008 – July 31, 2011.
5. "OrganicPad: A Tablet PC-Based Interactivity Tool for Organic Chemistry", (with Melanie M. Cooper and Calvin L. Williams), National Science Foundation ALT, \$311,740, January 1, 2008 – December 31, 2010.
6. "Organic Pad: A Tablet PC-Based Interactivity Tool for Teaching Chemistry", Camille and Henry Dreyfus Foundation 2009 Special Grant Program in the Chemical Science, (co-PIs Melanie M. Cooper and Roy P. Pargas), \$25,000, May 1, 2009 - December 31, 2010

SPONSORED RESEARCH (Completed)

7. "Mobile Instructional Technology for Integrating Classroom and Laboratory Activities for STEM Students (MITICLASS)", (with Marilyn Reba, Calvin Williams, and Lisa Benson), 2007 Hewlett-Packard Technology for Teaching Leadership Grant, \$120,000, August 1, 2007 – July 31, 2009.
8. "Development of a Targeted Tablet PC Software Development Course", 2004 Microsoft Research Tablet PC and Computing Curriculum Grant, \$48545, January 2005 – June 2006, <http://www.cs.clemson.edu/~pargas/tabletpc>
9. "Development of a Network Applications Course Using Microsoft .NET, SQL Server, and IIS", 2003 Microsoft Curriculum and Content Development Grant, \$29520, January 2004 – June 2005, <http://www.cs.clemson.edu/~pargas/messagegrid>

10. "Soldier Fullbody Scanning and Analysis", U.S. Army TACOM, Co-Principal Investigator (with B. Malloy, D. Stevenson, D. Jacobs, J. McGregor, R. Geist, G. Fadel), \$463, 136 (\$75,000) (1996-1999)
11. "Automating Information Extraction from 3D Scan Data", Defense Logistics Agency, Principal Investigator, \$142,000 (1996-1997)
12. "Enhancing Computer Science Faculty Member's Knowledge of the Lab Approach to Teaching Computer Science," National Science Foundation, Co-Principal Investigator (with J. McGregor), \$71,013 (1994)
13. "Enhancing Computer Science Faculty Member's Knowledge of the Lab Approach to Teaching Computer Science," National Science Foundation, \$59,386 (served as consultant; J. McGregor, PI) (1993)
14. "Look-Ahead Simulation of Production Scheduling," Defense Logistic Agency, Co-Principal Investigator (with J. Peck) \$34,128 (1992-1993)
15. "Automated Size Prediction for Try-On of U.S. Army Men's Initial Issue Dress Uniform," Defense Logistics Agency, Co-Principal Investigator (with N. Staples and S. Davis) \$151,388 (1993-1994)
16. "Look Ahead Simulation of Shop Floor Operations," Defense Logistics Agency, Co-Principal Investigator, \$483,023 (with J.C. Peck) (1988-1989)
17. "Towards the Development of a Parallel Computation Research Laboratory," Intel Corporation Equipment Grant, Co-Principal Investigator (with A. J. Turner) \$130,000 (1989)
18. "Investigations into Multiprocessor System Design Issues," NCR Corporation, Co-Principal Investigator (with A. W. Madison and J. M. Westall, Jr.) \$159,820 (1988)
19. "Mapping and Partitioning Large Problems onto a Hypercube," Clemson University Research Initiative Program in Discrete Mathematics and Computational Analysis, Principal Investigator, \$5,331 (1987)
20. "SAGE/FPST - A Hypercube Algorithm Design Tool," Floating Point Systems, Inc., Beaverton, OR, Co-Principal Investigator (with K. R. Allen) \$20,000 (1985)
21. "SAGE: A Systolic Array Generating Engine", Lockheed Electronics Company, Inc. Plainfield, NJ, Co-Principal Investigator (with K. R. Allen) \$10,000, (1986)
22. "Development of a Computerized Backcountry Reservation System", National Parks Service, Gatlinburg, TN, Principal Investigator, \$4,985 (1985)

23. "Computer-Aided Speech Education", Clemson University Office of University Research, Principal Investigator, \$2,000 (1984)

OTHER SPONSORED ACTIVITY

24. "3DM: A Tool for Automated Clothing Design", Tom and Linda Platt, Inc., Principal Investigator, \$13,000 (1999-2000)
25. "Balanced Inventory Flow Replenishment System (BIFRS)", Software Designer and Implementer, Defense Logistics Agency, (1996-2000).

PUBLICATIONS

Book Chapters

- C.J. Fleckenstein, H. Gill, D. Hemmendinger, C. McCreary, J.D. McGregor, R. P. Pargas, A. M. Riehl, V. Wallentine, "Multiprocessing," *Advances in Computers: 35*, pp. 255-324, Academic Press (1992).
- G. A. Mago, R. P. Pargas, "Solving Partial Differential Equations on a Cellular Tree Machine", *Parallel and Large Scale Computers: Performance, Architecture, Applications*, M. Ruschitzka et al. (eds.), IMACS/North-Holland Publishing Company, 1983.

Refereed Journal Publications

- Melanie M. Cooper, Nathaniel P. Grove, Roy Pargas, Sam P. Bryfczynski and Todd Gatlin, "*OrganicPad: an interactive freehand drawing application for drawing Lewis structures and the development of skills in organic chemistry*", *Chem. Educ. Res. Pract.*, 2009, **10**, 296, DOI: 10.1039/b920835f
- Jack Peck, Chris Jarvis, Bill Kernodle, Steve Davis, and Roy Pargas, "Decision Support for Balanced Inventory Flow Replenishment System at Retail Sites", *International Journal of Clothing Science and Technology*, vol. 12, no. 6, 95-96 (2000).
- Chris Jarvis, Jack Peck, Bill Kernodle, Steve Davis, and Roy Pargas, "Decision Support for Balanced Inventory Flow Replenishment System for Wholesale Sites", *International Journal of Clothing Science and Technology*, vol. 12, no. 6, 96-97 (2000).
- R. P. Pargas, M. J. Harrold, R. Peck, "Test Data Generation Using Genetic Algorithms," *Journal of Software Testing, Verification and Reliability*, vol. 9, no. 4, pp. 263-282 (December 1999).

- J. Peck, B. Kernodle, S. Davis, R. Pargas, "Decision Support for a Balanced Inventory Flow Replenishment System," *International Journal of Clothing Science and Technology*, vol. 10, no. 6, pp. 77-80 (1988).
- J. S. Davis, N. Staples, R. Pargas, "Design of a System to Predict Garment Sizes." *The New Review of Applied Expert Systems*, vol. 4, pp. 17-31 (1998).
- R. P. Pargas, N. J. Staples, J. S. Davis, "Automatic Measurement Extraction for Apparel from a Three-dimensional Body Scan," *Journal of Optics and Lasers in Engineering*, vol. 28, no. 2, pp. 157-172 (1997).
- R. Pargas, A. Jackson, "Solutions to the $N \times N$ Knights Cover Problem," *Journal of Recreational Mathematics*, vol. 24, no. 1, pp. 255-267 (January 1992).
- J. C. Peck, R. P. Pargas, P. K. Khambekar, S. K. Dharmaraj, "Shop-Floor Performance Metrics for the Apparel Industry," *International Journal of Clothing Science and Technology*, vol. 23, no. 1, pp. 35-48.
- R. P. Pargas, "Parallel Solution of Recurrence Expressions on a Tree Machine," *International Journal of Computer and Information Sciences* vol. 13, no. 4, pp. 251-277 (August 1984).

Conference Proceedings (Peer-Reviewed)

- Pargas, R.P., Eric Anderson, and David Bowman, "MessageGrid ReplayInk: Pinpointing Student Misconceptions", WIPTE 2009, Virginia Tech, Blacksburg, VA, October 12-13 2009.
- Bryfczynski, S.P., Roy P. Pargas, Melanie M. Cooper, Nathaniel P. Grove and Sonia M. Underwood, How Do Students Solve Chemistry Problems, WIPTE 2009, Virginia Tech, Blacksburg, VA, October 12-13 2009.
- Pargas, R.P. and Bryfczynski, S., "What Were They Thinking?", *Proceedings of the 14th Annual Conference of Innovation and Technology in Computer Science Education (ITiCSE 2009)*, Paris France, July 3-9, 2009, <http://iticse09.lrde.org/>
- Pargas, R.P. and Bryfczynski, S., "Using *Ink* to Expose Students' Thought Processes in CS2/CS7", *Proceedings of ACM 40th SIGCSE Technical Symposium on Computer Science Education (SIGCSE 2009)*, Chattanooga, TN, March 4-7, 2009, pp. 168-172, <http://www.cs.arizona.edu/groups/sigcse09/>.
- Benson, L.C and Pargas, R.P., "WIP – Tablet PCs as Interactive Web-Based Instruction Tools in a First Year Engineering Course", *Proceedings of the 2008 ASEE/IEEE Frontiers in Education Conference (FIE 2008)*, Sarasota Springs, NY, October 22-25, 2008, pp. T4A 15-16, <http://fie-conference.org/fie2008/>.

- Reba, M. and Pargas, R.P., "Using Tablet PCs as Interactive Web-Based Instruction Tools in Freshman Calculus", *Proceedings of the 3rd Workshop on the Impact of Pen-Based Technology on Education (WIPTE) 2008*, Purdue University, West Lafayette, IN, October 15-16, 2008.
- Pargas, R.P., "Effective Student Ink Submissions in Computer Science Courses", *IEEE Frontiers in Education (FIE) 2007*, Milwaukee WI, October 10-13, 2007. <http://fie-conference.org/fie2007/>.
- Pargas, R.P., "Seeing Clearly Through Ink in Computer Science Courses", 1st International Workshop on Pen-Based Learning Technologies (PLT 2007), Catania, Italy, May 24-25, 2007. <http://plt2007.ing.unict.it/>
- Pargas, R.P., Melanie Cooper, Calvin Williams, Samuel Bryfczynski, "OrganicPad: A Tablet PC Based Interactivity Tool for Organic Chemistry", 1st International Workshop on Pen-Based Learning Technologies (PLT 2007), Catania, Italy, May 24-25, 2007. <http://plt2007.ing.unict.it/>
- Pargas, R.P., "Engaging Every Student in Large Laptop Classes", *Proceedings of the Sixth International Conference on Web-Based Education (WBE 2007)*, Chamonix, France, March 14-16, 2007. <http://www.iasted.org/conferences/home-557.html>
- Pargas, R.P., "Reducing Lecture and Increasing Student Activity in Large Computer Science Courses", *Proceedings of the 11th Annual Conference of Innovation and Technology in Computer Science Education (ITicSE 2006)*, Bologna, Italy, June 26-28, 2006, <http://www.iticse06.cs.unibo.it/>
- Pargas, R.P. and Shah, D., "Things are Clicking in Computer Science Courses", *Proceedings of ACM 37th SIGCSE Technical Symposium on Computer Science Education (SIGCSE 2006)*, Houston, TX, March 1-4, 2006, pp. 474-478, <http://www.cs.rit.edu/~sigcse06/>.
- Pargas, R.P., "Facilitating a Course in Tablet PC Software Development", *Proceedings of the 1st Workshop on the Impact of Pen-technology on Education (WIPTE 2006)*, Purdue University, April 4-6, 2006, <http://www.itap.purdue.edu/tlt/conference/wipte/>.
- Pargas, R.P., "Using MessageGrid to Promote Student Collaboration", *Proceedings of IADIS Cognition and Exploratory Learning in a Digital Age 2005 (CELDA 2005)*, Porto, Portugal, December 14-16, 2005, pp.359-362, <http://www.iadis.org/celda2005/>
- Pargas, R.P., Levin, A.R. and Austin, J., "Work-In-Progress: Providing Interactivity in a Technology-Rich Classroom", *Proceedings of the 2005 ASEE/IEEE Frontiers in Education Conference (FIE 2005)*, Indianapolis, IN, October 19-22, 2005, pp. F3D 13-14, <http://fie.engrng.pitt.edu/fie2005/>
- J. Witte and R.P. Pargas, "The OnQ Survey Database System: Architecture and Implementation", *Proceedings of the Fourth International Conference on Survey and*

Statistical Computing, The University of Warwick, England, UK, September 17-19, 2003.

- R.P. Pargas, Y. Yang, H. Jiang, "Remote Submission and Parallel Computation of Fluorescence Image Reconstruction of Breast Cancer," *To appear in SPIE Smart Medical and Biomedical Sensor Technology Conference*, Providence, RI, November 2003.
- R.P. Pargas, J. Witte, L. Brand, C. Hochrine, M. Staton, "OnQ: An Authoring Tool for Dynamic Online Surveys," *Proceedings of ITCC 2003*, Las Vegas, Nevada, April 27-30, 2003, pp. 717-723.
- R.P. Pargas, J. Witte, K. Jaganathan, J.S. Davis, "Database Design for Dynamic Online Surveys," *Proceedings of ITCC 2003*, Las Vegas, Nevada, April 27-30, 2003, pp. 665-671.
- A.B. Campbell and R.P. Pargas, "Laptops in the Classroom," *Proceedings of the ACM 34th SIGCSE Technical Symposium on Computer Science Education*, Reno, Nevada, February 19-22, 2003, pp. 98-102.
- R. P. Pargas, P. Deshmukh, D. Mulfinger, M. Chhatriwala, S. Vadiyar, "Generating Animated Sequences from 3D Wholebody Scans," *Proceedings of the 11th Annual Symposium on Electronic Imaging: Science and Technology, Three Dimensional Image Capture and Applications*, San Jose, California, January 1999, pp. 88-96.
- R. P. Pargas, N. J. Staples, B. F. Malloy, K. Cantrell, M. Chhatriwala, "Tilted Planes in 3D Image Analysis," *Proceedings of the 10th Annual Symposium on Electronic Imaging: Science and Technology, Three Dimensional Image Capture and Applications*, vol. 3313, San Jose, California, January 1998, pp. 74-81.
- R. P. Pargas, J. Underwood, J. Lundy, "Tournament Play in CS1," *Proceedings of the ACM 28th SIGCSE Technical Symposium on Computer Science Education (SIGCSE 1997)*, San Jose, California, (February 1997).
- R. P. Pargas, J. Ludwick, S. Spoon, "Hybrid Search Algorithms," *Proceedings of the 12th Annual ACM Symposium on Applied Computing (SAC 1997)*, San Jose, California (March 1997).
- R. Pargas, R. Jain, "A Parallel Stochastic Optimization Algorithm for Solving 2D Bin Packing Problems," *Proceedings of the Ninth IEEE Conference on Artificial Intelligence for Applications*, Orlando, FL, pp. 18-25. (March 1993).
- A. J. Offutt, R. P. Pargas, S.V. Fichter, P.K. Khambekar, "Mutation Testing of Software Using a Parallel Computer," *Proceedings of the 1992 International Conference on Parallel Processing*, St. Charles, IL, (August 1992).

- R. P. Pargas, P. K. Khambekar, "Guidelines for Dynamic Load Balancing in Conservative Distributed Simulations," *Proceedings of the 1992 Summer Computer Simulation Conference*, Reno, Nevada, pp. 47-52, (July 1992).
- J. C. Peck, R. P. Pargas, P.K. Khambekar, S.K. Dharmaraj, "Solving Synchronization Problems in Rapid Simulation of a Manufacturing Shop-Floor," *Proceedings of the Simulation Multiconference on Artificial Intelligence and Simulation*, New Orleans, Louisiana, pp. 3-8, (April 1991).
- J. C. Peck, R. P. Pargas, S. K. Dharmaraj, "Analysis of Distributed Join Algorithms," *Proceedings of the Fifth Distributed Memory Computing Conference*, Charleston, South Carolina, pp. 1411-1419, (April 1990).
- R. P. Pargas, R. M. Geist, P. K. Khambekar, "Digital Halftoning by Parallel Simulation of Neural Networks," *Proceedings of the Fifth Distributed Memory Computing Conference*, Charleston, South Carolina, pp. 165-175, (April 1990).
- J. C. Peck, R. P. Pargas, P.K. Khambekar, S. K. Dharmaraj, "Near-Term Distributed Simulation of Apparel Manufacturing," *Proceedings of the 1990 Winter Simulation Conference*, New Orleans, Louisiana, pp. 614-618, (December 1990).
- R. P. Pargas, T. J. Murray, "A Parallel/Vector Implementation of the Thomas Algorithm," *Proceedings of the Fourth Conference on Hypercube Concurrent Computers and Applications*, Monterey, CA, pp. 686-688 (March 6-8, 1989).
- R. P. Pargas, J. C. Peck, A. L. Pugh, "Use of a SemiJoin Program for Join Queries on a Hypercube," *Proceedings of the Fourth Conference on Hypercube Concurrent Computers and Applications*, Monterey, CA, pp. 457-461 (March 1989).
- K. R. Allen, R. P. Pargas, J. L. Hightower, "On the Equivalence of Two Methods for Generating Systolic Arrays," *Proceedings of the 26th Annual Conference of the ACM, Southeast Region*, Mobile, AL (April 1988).
- R. P. Pargas, K. R. Allen, A. A. McRae, "Comparison of Several Techniques for Generating Systolic Arrays," *Proceedings of the 16th Annual Computer Science Conference*, Atlanta, GA, pp. 345-349 (February 1988).
- K. R. Allen, R. P. Pargas, A. B. Sharma, "Some New Systolic Designs for Two-Dimensional Convolution," *Proceedings of the 16th Annual Computer Science Conference*, pp. 350-356, (February 1988).
- R. P. Pargas, K. R. Allen "Translating Systolic Arrays to Instruction Systolic Arrays, " *Proceedings of the 16th Annual Computer Science Conference*, Atlanta, GA, pp. 357-365 (February 1988).

- R. P. Pargas, E. D. Wooster, "Branch-and-Bound Algorithms on a Hypercube, *Proceedings of the Third Conference on Hypercube Concurrent Computers and Applications*, Pasadena, California, pp. 1514-1519 (January 1988).
- R. P. Pargas, K. R. Allen, "On the Automatic Development of Systolic Arrays," *Proceedings of the Second International Conference on Supercomputing*, Santa Clara, California, pp. 209-217 (May 1987).
- K. R. Allen, R. P. Pargas, "Automatic Generation of Systolic Designs for Two-dimensional Convolution," *Proceedings of the 25th Annual Conference of the ACM, Southeast Region*, Birmingham, Alabama, pp. 458-464 (April 1987).
- R. P. Pargas, H. Singh, "A Parallel Algorithm for the Domination Number of a Grid Graph," *Proceedings of the Eighteenth Southeastern International Conference on Combinatorics, Graph Theory, and Computing*, Boca Raton, Florida, pp. 297-311 (February 1987).
- G. A. Mago, R. P. Pargas, "Solving Partial Differential Equations on a Cellular Tree Machine", *Proceedings of the 10th IMACS Conference on Systems Simulation and Scientific Computation*, Montreal, Canada, vol. 1, pp. 368-375 (August, 1982)
- R. P. Pargas, H. A. Presnell, "Communication Along Shortest Paths of a Tree Machine", *Proceedings of the Conference on Functional Programming Languages and Computer Architecture*, Portsmouth, Maine, pp. 107-114 (October 1981).

Conference Presentations (Unreviewed)

- J. C. Peck, R. P. Pargas, "Production Scheduling through Distributed Simulation," *Proceedings of the Fourth International Conference on Expert Systems in Production and Operations Management*, Hilton Head, South Carolina, pp. 90-94 (May 1990).
- J. C. Peck, R. P. Pargas, "Near-Term Simulation with Parallel Processing Computer Technologies," *Proceedings of the AAMA 1988 International Apparel Research Conference*, Atlanta, GA (October 1988).
- R. P. Pargas, K. R. Allen, "SAGE: The Clemson University Systolic Array Generating Engine", *Proceedings of the Army Research Office Workshop on the Future Directions in Computer Architecture and Software*, Seabrook Island, South Carolina, pp. 301-303 (May 1986).

Research (Technical) Reports

"On Compiling Loop Algorithms onto Systolic Arrays," Presented at the Second SIAM Conference on Parallel Processing for Scientific Computing, (November 18-

21, 1985), Norfolk, Virginia. Report \#85-11-18, Department of Computer Science, Clemson University, Clemson, South Carolina 29634, 1985. (with K.R. Allen)

"SAGE: Clemson University Systolic Array Generating Engine," User Guide, Version 2.1., Report \#86-10-17, Department of Computer Science, Clemson University, Clemson, South Carolina 29634, 1986. (with K.R. Allen)

Dissertation

“Parallel Solution of Elliptic Partial Differential Equations on a Tree Machine.”
Design and analysis of parallel algorithms to solve tridiagonal and block-tridiagonal linear systems on a binary tree-structured network of processors. Department of Computer Science, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina 27514 (1982).

WORKSHOPS

CDC CYBER 205 Supercomputer Summer Institute, August 1986, The University of Georgia, Athens, Georgia. Sponsored by the National Science Foundation. The two-week workshop was designed to introduce scientists to supercomputing.

Clemson University Workshop on Parallel Computing, Clemson University, November 18-19, 1987. Sponsored by the Office of Naval Research through the Clemson University Research Initiative Program.

PRESENTATIONS

Pargas, R.P., "A Targeted Tablet PC Software Development Course", (Poster Presentation) *Proceedings of the 11th Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE 2006)*, Bologna, Italy, June 26-28, 2006, <http://www.iticse06.cs.unibo.it/>

R. Pargas, M. Chhatriwala, D. Mulfinger, P. Deshmukh, S. Vadiyar, “Generating animated sequences from 3D whole-body scans”, *Three Dimensional Image Capture and Applications II, Proceedings of SPIE - International Society for Optical Engineering*, San Jose, California (January 2000)

K. R. Allen, R. P. Pargas, "Obtaining Nonuniform Systolic Designs Using Modified Mapping Techniques," poster presentation at the Third SIAM Conference on Parallel Processing for Scientific Computing, Los Angeles, CA (December 1987).

R. P. Pargas, K. R. Allen, "On Compiling Loop Algorithms onto Systolic Arrays," presented at the Second SIAM Conference on Parallel Processing for Scientific

Computing, Norfolk, VA, November 18- 21, 1985. Clemson University Department of Computer Science Technical Report \#85-11-18.

R. P. Pargas, "3DM: Software for Measurement Extraction from 3D Human Fullbody Scans," University of Minnesota, Minneapolis (December 2-4, 1996)

R. P. Pargas, "EC94: Electronic Catalog for the Textile and Apparel Industry," Exporters' Textile Advisory Committee, Washington, DC (November 1994)

R. P. Pargas, "3D Non-Contact Measurement Software," Champion, Inc., Alexander City, AL (April 19-20, 1994)

MEMBERSHIPS Member, Association for Computing Machinery (ACM)
 Member, Institute of Electrical and Electronics Engineers (IEEE)

PROFESSIONAL ACTIVITIES

Technical Conference or Professional Meeting Activities

ACM Southeast Regional Conference (ACM SE Regional 2009)

Registration Chair, Member of program committee

Member of review committee, Conference session chair

International Conference on Parallel Processing (ICPP)

Member of review committee: 1987, 1988, 1992

IEEE Computer Special Issue on Systolic Arrays (Spring 1987)

Member of review committee: 1987

IEEE Fifth Distributed Memory Computing Conference (DMCC 1990)

Member of review committee, Conference session chair

ACM Southeast Regional Conference (ACM SE Regional 1990)

Special Sessions chair, Member of program committee

Member of review committee, Conference session chair

Intel Supercomputer Users Group (ISUG 1991)

Conference program chair, Member of review committee,

User's Group Vice-President, 1990-1991

1992 ACM Symposium on Applied Computing (SAC 1992)

Member of review committee

SPIE Annual Symposium on Electronic Imaging: 3D Imaging and Capture

Program Committee (1998, 1999, 2000), Conference Co-Chair (2001,

2002, 2004)