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Vitae of Dr. Christopher P. Paolini, Ph.D.

Education

- (2007) Ph.D. degree in Computational Science and Engineering, San Diego State University
  Dissertation title: *A Service-Oriented Architecture for Thermochemical Computation*
- (1998) M.S. degree in Computer Science from San Diego State University
  Thesis title: *Integration of Heterogeneous Robotic Apparatus using CORBA*
- (1991) B.S. degree in Computer Science from San Diego State University
  Magna Cum Laude, Graduation with Distinction

Honors and Awards

- ARCS Foundation Scholar, 2002-2005
- Unisys Corporation Scholarship for Academic Merit, 1990

Experience

- **Instructor**, Department of Computer Science, San Diego State University, Spring 2006 - present.
- **Operating System Analyst, *Expert Classification***, College of Engineering, San Diego State University, 1996 - present.
- **Lead Staff Software Specialist**, Telecommunications and Network Services, San Diego State University, 1994-1996.
- **Associate Software Engineer**, IC CAD Layout Division, Unisys Corporation, 1990-1994.
- **Computer Laboratory Assistant**, Department of Mathematical Sciences, San Diego State University, 1989-1990.

M.S. Thesis Supervision

- *Preliminary Implementation of Thermochemical Data Web Services*, Devalia Brijesh Vijaukumar, Fall 2006.
- *Java Application for Finding the Optimum Solution for Thermodynamic Equilibrium*, Prashant Surana, Spring 2007.
- *Web Service Enabled Unit Converter - A Framework for Distributed Community Computing*, Brahmaji Kalyan Sri Rama Bobba, Summer 2007.
- *Grid Computing for Flame3D*, Sirisha Gummadi, (under preparation).

Vitae of Dr. Christopher P. Paolini, Ph.D. (continued)

Courses Taught

- CS 576 *Introduction to Networks and Distributed Systems*, Graduate and upper-division undergraduate level
- CS 696 *Advanced Networks and Distributed Systems*, Graduate level
- ENGR 120 *Engineering Problem Analysis*, Lower-division undergraduate level
- *Introduction to the Unix Operating System*, San Diego State University Defense Conversion Program
- *Introduction to Internet Information Systems*, San Diego State University Defense Conversion Program

Workshops Given

- Introduction to Accelrys' Insight II Molecular Modeling Software, 2006.

Articles in Refereed Journals

- Subrata Bhattacharjee, Matthew D. King, and Christopher Paolini. *Structure of downward spreading flames: a comparison of numerical simulation, experimental results and a simplified parabolic theory*, **Combustion Theory and Modeling**, 8:2339, March 2004.

Articles in Refereed Proceedings

- Paolini, C., Bobba, K., Surana, P., and Bhattacharjee, S., *A Java Based Web Application for Performing Chemical Equilibrium Analysis in Thermodynamics Courses*, **36th ASEE/IEEE Frontiers in Education Conference**, October 28 31, 2006, San Diego, CA.
- S. Bhattacharjee, C. Paolini, C. Phi, K. Wakai, and S. Takahashi. *Opposed-flow flame spread over thin films of PMMA in a microgravity environment - a comparison of computational, theoretical, and experimental results*, **Proceedings of the International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics**, Cairo, Egypt, September 2005.
- C. Paolini, A. Udgaonkar, S. Bhattacharjee, S. Takahashi, and K. Wakai. *A numerical investigation of flame geometry in opposed flow flame spread over thin fuels*, **Proceedings of 5th Asia-Pacific Conference on Combustion**, The University of Adelaide, Adelaide, Australia, July 2005.
- S. Bhattacharjee, C. Paolini, K. Wakai, and S. Takahashi. *Flammability map for microgravity flame spread*, **Strategic Research to Enable NASAs Exploration Missions Conference**, NASA/TM-2004-213114, June 2004.
- Christopher Paolini, Kyoung H. Yeo, and Subrata Bhattacharjee. *An object oriented formulation for unsteady 3d heat transfer*, **Proceedings of CHT-04 ICHMT International Symposium on Advances in Computational Heat Transfer**, April 2004.

Vitae of Dr. Christopher P. Paolini, Ph.D. (continued)

- Christopher Paolini, Kyoung H. Yeo, and Subrata Bhattacharjee. *An object oriented formulation for the finite volume simpler algorithm*, **Proceedings of the Western States Section/The Combustion Institute**, October 2003.

- Subrata Bhattacharjee, Christopher Paolini, K. Wakai, and S. Takahashi. *Extinction criteria for opposed-flow flame spread in a microgravity environment*, **Proceedings of the Seventh International Microgravity Combustion Workshop**, NASA, May 2003.

- Christopher Paolini and Marko Vuskovic. *Integration of a robotics laboratory using CORBA*, **1997 International Conference on Systems, Man, and Cybernetics**, Orlando, FL, October 1997.

Service

- CSUEU Communications Committee: 2006 - present.

- Recruitment Committee Member: Dean, College of Engineering, 2001.

- Recruitment Committee Member: PC Administrator, 2000.

References

- Dr. Subrata (Sooby) Bhattacharjee, Professor (Ph.D. Advisor), Department of Mechanical Engineering, San Diego State University, San Diego, CA 92182, Tel: (619) 594-6080 (Office), Email: subrata@thermo.sdsu.edu, Homepage: http://sb.sdsu.edu/

- Dr. Jose Castillo, Professor and Director of the Computational Science Research Center, Department of Mathematical Sciences, San Diego State University, San Diego, CA 92182, Tel: (619) 594-3430, Email: castillo@myth.sdsu.edu, Homepage: http://www.csrc.sdsu.edu/csrc/index.php

- Dr. Marko Vuskovic, Professor (M.S. Thesis Advisor), Department of Computer Science, San Diego State University, San Diego, CA 92182, Tel: (619) 594-4302 (Office), Email: marko@cs.sdsu.edu, Homepage: http://medusa.sdsu.edu/Robotics/index.htm

- Dr. Pieter A. Frick, Professor and Dean, School of Engineering and Computer Science, Oakland University, Rochester, MI 48309, Tel: (248) 370-2217, Email: frick@oakland.edu, Homepage: http://www2.oakland.edu/secs/dispfac.asp