SAMUEL E. SAMBASIVAM, Ph.D.

Computer Science Department
Azusa Pacific University
901 East Alosta Ave, Azusa, CA 91702
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Citizenship: U.S.

EDUCATION

Doctor of Philosophy, Mathematics/Computer Science, Moscow State University, Russia

Master of Science in Computer Science, Western Michigan University, USA

Pre-PhD in Mathematics/Computer Science, Indian Institute of Technology, Delhi, India

Master of Science in Mathematics, University of Mysore, NCERT, India

Bachelor of Science, Mathematics, Physics, and Chemistry, University of Madras, India

PROFESSIONAL EXPERIENCE

Chair Emeritus and Professor of Computer Science, 2014-Present
Director of Computer Science Programs
Engineering & Computer Science Department, Azusa Pacific University, Azusa, CA

Chair and Professor of Computer Science, 1997-2014
Computer Science Department, Azusa Pacific University, Azusa, CA

Distinguished Visiting Professor of Computer Science, 2008-09
United States Air Force Academy, Colorado Springs, CO 80840

Interim Associate Dean, 2004-2005
College of Liberal Arts & Sciences, Azusa Pacific University, Azusa, CA

Associate Professor of Computer Science, 1995-1996
Computer Science Department, Azusa Pacific University, Azusa, CA

Assistant / Associate Professor of Computer Science, 1990-95
Computer Science & Mathematics, Missouri Western State College, Saint Joseph, MO

Graduate Assistant of Computer Science, 1988-90
Computer Science Department, Western Michigan University, Kalamazoo, MI

Instructor of Mathematics, 1987-88
Mathematics & Statistics Department, Western Michigan University, Kalamazoo, MI

Research Scholar of Mathematics, 1983-86
Mathematics Department, Moscow State University, Russia

Head of the Department of Mathematics, 1981-82
Kendriya Vidyalaya Sangathan, Indian Institute of Technology, Bombay, India

Graduate Assistant of Mathematics, 1979-81
Mathematics Department, Indian Institute of Technology, Delhi, India

HONORS & AWARDS

- Named in **WHO'S WHO in America, American Education, Among America's Teachers, the World, Men of Achievement in the World, the Midwest, Finance & Industry,** 1994-Present
- Promoted to Full Professor of Computer Science, Azusa Pacific University, 1998
- Appointed Chair of Computer Science Department, Azusa Pacific University, 1997
- Granted **Tenure** at Missouri Western State College, 1995
- Chairperson's Council Award for Outstanding Service, Missouri Western State College, 1992
- Graduated with **HONORS in M.S.** Computer Science, 1990
- Graduate Research and Creative Scholar Award, CS Dept., Western Michigan University, 1989
- Placed First in Russian Language Training Program, Moscow, USSR, 1983-86
- Overseas Postgraduate Research Fellowship, Government of India, 1982-86
- Research Fellowship, Indian Institute of Technology, Delhi, India, 1978-81
- Merit Scholarship, National Council of Educational Research and Training, Delhi, India, 1976-78

COMPETENCIES
Administrative

Experience & Training

- Interim Associate Dean of the College of Liberal Arts & Sciences(CLAS), Azusa Pacific University, Azusa, CA. Responsibilities include Adjunct faculty interviews, University Assessment supervision for 5 CLAS departments, Technology representation in UIMC, supervision of publication of CLAS notes, Center for Research In Science(CRIS) advisory council, Science Building Task Force, supervision of petitions, independent study forms, grade change forms for graduate programs, supervision of office staff.
- Chairman of the Computer Science Department, Azusa Pacific University, Azusa, CA. Responsibilities include budget preparation and control, supervision of faculty & office staff, student advising coordination, marketing, program/curriculum development, scheduling of classes, and operation of the department events.
- Co-Chair and Coordinator of Computer Science Department, Azusa Pacific University, Azusa, CA. Responsibilities include budget preparation and control, oversight of office staff, student advising coordination, and coordination of leadership team.
- Coordinator of the Computer Science Discipline in the Department of Computer Science, Mathematics and Physics, Missouri Western State College, Saint Joseph, Missouri, USA. Responsibilities include budget preparation, scheduling of classes, hiring of part-time faculty, and supervision of computer science discipline in the department.
- Site Coordinator of the ACM Regional Scholastic Programming Contest for six years at Missouri Western State College, Saint Joseph, MO. Responsibilities include preparation of teams, organizing the contest, preparation of the budget and registration process, and judging.
- Head of the Department of Mathematics at the Indian Institute of Technology, Bombay, India. Responsibilities included supervision of faculty, budget, scheduling, and lab.

Skills & Competencies

- Ability to plan and set priorities.
- Ability to budget and maintain costs relative to that budget.
- Ability to work with individuals in a supervisory capacity where they are both valued and empowered to advance the goals of the organization.

- Ability to set priorities and meet deadlines.
- Ability to deal with personnel issues in a manner which resolves conflict.
- Ability to focus a team of individuals on a vision and elicit their assistance in reaching for those goals.
- Ability and commitment to operate in an administrative capacity with honesty and integrity.

Marketing / Recruitment

Experience & Training
- Formal education in marketing analysis and strategies both in the areas of business and curriculum.
- Experience in evaluating educational programs and market analysis to determine the mixture of services that would attract students and prepare them for employment including meetings with organizations which offer internship and employment opportunities that would enhance the viability of the curricular programs designed.

Skills & Competencies
- Ability to analyze and synthesize market trends in the field of education for the purpose of maintaining a viable program.
- Ability to communicate with professionals interested in the opportunities offered by an educational institution for further training and development of their personnel.
- Ability to map realistic goals and set agendas which can be expected to achieve those desires.

Program / Curricular Development

Experience & Training
- Experience in the redesign of a computer science program to meet the needs of students and the expectations of accrediting organizations as well as to conform to the published expectations of professional organizations in the field. Review of the program design yielded high commendations from accrediting associations in a significant increase in enrollment.
- Experience in both micro and macro views of educational design including the tasks of faculty evaluation, course evaluation, program design and educational philosophy.
- Formal education in instructional and curricular design with emphasis on teaching, analysis and evaluation of outcomes. (B. Ed degree from NCERT)
- Experience in the redesign of a computer science program at Missouri western State College.
- Experience in developing several new courses to incorporate ACM guidelines at Missouri Western State College and at Azusa Pacific University.

Skills & Competencies
- Ability to evaluate and coordinate a team of professionals to design and implement educational programs which are both academically credible and marketable.
- Ability to work with individuals at the course and program level to help them achieve maximum effectiveness in the delivery and development of instruction.
- Ability to recognize the needs of the student in the educational process, balancing this with industry expectations and academic integrity.
- Ability to understand the future impact of distance education and non-traditional delivery models which will characterize the university of the 21st century.

Teaching

Experience & Training
- Extensive educational preparation in computer science and mathematics resulting in a terminal degree, two masters degree, one bachelor degree from three different countries. (USA, USSR, India)
- Twenty five years of experience in the field of higher education. These years have been marked with

commendable student, peer and supervisor evaluations regarding the effectiveness of instructional delivery and student interaction.

Skills & Competencies

- Ability to effectively communicate concepts and ideas to other individuals.
- Ability to consistently produce results in the classroom in many varied situations.
- Ability to envision what education can be in the next century through the full utilization of technology and experienced professionals.

Courses Taught

<u>Online:</u>   Teaching online over 13 years both Undergraduate and graduate courses.

<u>Graduate:</u>

Database Management Systems Design
C++ Programming
JAVA Programming
Client/Server Applications Development
Advanced Database Applications
Data Structures and Algorithms Analysis
Artificial Intelligence
Linear Algebra
Operations Research
Functional Analysis

<u>Undergraduate:</u>

CS 1 and 2
Data Structures
Database Management Systems
Numerical Analysis
Artificial Intelligence
Advanced Database Applications
College Algebra
Calculus I, II
Differential Equations
Linear Algebra
Discrete Mathematics

RESEARCH & PROFESSIONAL ACTIVITIES

- Associate Editor – Information Systems Education Journal (ISEDJ), 2013-Present
- Reviewer- for C. Coronel, S. Morris, & P. Rob, *Database systems: Design, implementation, and management* (10th Ed.). Boston: Course Technology, Cenage Learning.
- Reviewer – Database Systems: Design, Implementation, and management, 9th Edition, ISBN: 13:978-0-538-46806-0
- Editorial Board Member – Information Systems Education Journal (ISEDJ), 2007-Present
- Referee for the CCSC South Western Conference on Computer Science Education, 2008-Present
- Referee for the national ACM SIGCSE Technical Symposium on CS Education, 1999-Present
- Referee for the IEEE Journal of computer transactions, 2001–Present
- Referee for the Innovation and Technology in CS Education – ITiCSE Conference, 2002-Present
- Referee for the Informing Science + IT Education Conference - InSITE, 2003-Present
- Referee for the Information Systems Conference - ISECON, 2003-Present
- Member of the Advisory Board for the Center for IT in Education, eCollege,1999-Present
- Founding Member, Informing Science Institute, Santa Rosa, CA
- Program Committee Member for IS + IT Education, Joint Conference, Pori, Finland, June 2003
- Member of PC Magazine Advisory Panel, Monthly Journal for Personal Computers, 2003-Present

Refereed Published Works

"Health Journal Web Service using Cloud Computing", Proceedings of the 2014 World Congress in Computer Science, Computer Engineering, and Applied Computing, July 21-24, Los Vegas, Nevada, USA.

"The generalized requirement approach for requirement validation with automatically generated program code", *Interdisciplinary Journal of Information, Knowledge, and Management, 9*, 59-88, 2014. Retrieved from http://www.ijikm.org/Volume9/IJIKMv9p059-088Bulajic0500.pdf

"Teaching Programming Style with Ugly Code", 2013 Proceedings of the Information Systems Educators Conference ISSN: 2167-1435 San Antonio Texas, USA v30 n2537. http://proc.isecon.org/2013/pdf/2537.pdf

"Gap between service requestor and service builder", the Proceedings of the International Conference on Applied Internet and Information Technologies. Zrenjanin, Serbia. http://www.tfzr.uns.ac.rs/aiit/

*"*An Effective Development Environment Setup for System and Application Software"*, Issues in Informing Science and Information Technology, Volume 10, http://iisit.org/Vol10/IISITv10p037-066Bulajic0086.pdf, 2013.*

"Relational Algebra and SQL: Better together", Information Systems Education Journal, 11 (1) ISSN: 1545-679X. http://isedj.org/2013-11/N1/ISEDJv11n1p4.html, 2013.

"*An Object-Oriented Relational Algebra Query Language*", The Proceedings of the Informing Science + Information Technology Education, Joint Conference, 2013, Porto, Portugal, June 30-July 6, 2013.

"*An Effective Development Environment Setup for System and Application Software*", The Proceedings of the Informing Science + Information Technology Education, Joint Conference, 2013, Porto, Portugal, June 30-July 6, 2013,

"Relational Algebra and SQL: Better Together", 2012 Proceedings of the Information Systems Educators Conference ISSN: 2167-1435 New Orleans Louisiana, USA v29 n1906. http://proc.isecon.org/2012/pdf/1906.pdf

"Software Engineering Frameworks: Life Cycle Changes", 2012 Proceedings of the Information Systems Educators Conference ISSN: 2167-1435 New Orleans Louisiana, USA v29 n1936. http://proc.isecon.org/2012/pdf/1936.pdf

"Software Engineering Frameworks: Perceptions of Second-Semester Students", Issues in Informing Science and Information Technology Journal, Volume 9, 2012, pages 317-329. http://iisit.org/Vol9/IISITv9p317-329McMaster022.pdf

"Overview of the Test Driven Development Research Projects and Experiments", The Proceedings of the Informing Science + Information Technology Education, Joint Conference, 2012, Montreal, Canada, June 22-27, 2012, http://proceedings.informingscience.org/InSITE2012/InSITE12p165-187Bulajic0052.pdf

"Software Engineering Frameworks: Textbooks vs. Student Perceptions", Information Systems Education Journal, 10(5) pp 4-14. http://isedj.org/2012-10/ ISSN: 1545-679X, http://isedj.org/2012-10/N5/ISEDJv10n5p4.html

"Problem Solving Frameworks for Mathematics and Software Development", Information Systems Education Journal, 10(5) pp 49-60. http://isedj.org/2012-10/ ISSN: 1545-679X, http://isedj.org/2012-10/N5/ISEDJv10n5p49.html

"Problem Solving Frameworks for Mathematics and Software Development", the proceedings of the Information Systems Educators Conference 2011 ISECON Proceedings, Wilmington North Carolina, USA v28 n1653. http://proc.isecon.org/2011/index.html

"Software Engineering Frameworks: Textbooks vs. Student Perceptions", the proceedings of the Information Systems Educators Conference 2011 ISECON Proceedings, Wilmington North Carolina, USA v28 n1603, http://proc.isecon.org/2011/index.html

"Practical Digital Playback of Gramophone Records Using Flat-Bed Scanner Images", the proceedings of 131st Audio Engineering Conference, October 20-23, 2011, New York, NY.
Link: http://www.aes.org/events/131/papers/?displayall

"A Relational Algebra Query Language for Programming Relational Databases", Information Systems Education Journal, 2011, Volume 9, Number 5, http://isedj.org/2011-9/N5/ISEDJv9n5p18.pdf/, ISSN: 1545-679X.

"Relational Algebra Programming with Microsoft Access Databases', Interdisciplinary Journal of Information, Knowledge, and Management, Volume 6, 2011, pages 73-83.

 "A relational algebra query language for programming relational databases", The Proceedings of Information Systems Education Conference 2010 (ISECON 2010), 27(1352).

"NATIS: Novel architecture framework for algorithmic trading information systems – automated stock trading via electronic communication networks", The Proceedings of CONISAR 2010, (CONISAR 2010), 3(1520).

"A Comparative Study of Students' Conceptual Database Frameworks across Universities", the Proceedings of the 40th ASEE/IEEE Frontiers in Education Conference, October 27 - 30, 2010, Washington D.C.

"A Novel Visual Cryptography Coding System for Jam Resistant Communication", The Journal of Issues in Informing Science and Information Technology, 2010, Vol. 7, pp. 495-507.

"A Case Study of Belady's Anomaly and the Binomial Distribution", The Proceedings of the Informing Science & IT Education Conference (InSITE) 2010, Cassino, Italy, June 21-24, 2010.

"Visual Concurrent Codes", The Proceedings of the Informing Science & IT Education Conference (InSITE) 2010, Cassino, Italy, June 21-24, 2010.

 "A Novel Visual Cryptography Coding System for Jam Resistant Communication", A chapter in the book "Information in Motion", ISBN: 9781932886283.

"A Probability Model for Belady's Anomaly", Information Systems Education Journal, 2010, Volume 8, Number 43, http://isedj.org/8/43/, ISSN: 1545-679X.

"PADT: SSAD-Streamlined and Component-Based Development -- Perspective, Activity, and Documentation Transitioning Approach", The Proceedings of International Conference on Engineering and Meta-Engineering, April 6th – 9th, 2010, Orlando, Florida, USA, pp184-189.

"Automatic prototype generating restated with re-ADA Perspective-bridged Architecture for document-driven systems transitioning", 2009, The Proceedings of Association of Computing Machinery (Florida): ACM 978-1-60558-475-1/09/11, pp. 45-59.

"A probability model for Belady's Anomaly", The Proceedings of the Information Systems Education Conference, 2009, v 26 (Washington DC): §3522. ISSN: 1542-7382.

"How anomalous is Belady's Anomaly?", The Journal of Issues in Informing Science and Information Technology, 2009, Vol. 6, pp. 825-836

"Formal Information Security Standards in German Medium Enterprises", The Proceedings of CONISAR 2008, v 1 (Phoenix): §1533. ISSN: 1542-7382.

"Web Based Data Capture for Clinical Research", The Proceedings of the Informing Science & IT Education Conference (InSITE) 2008, Varna, Bulgaria, June 22-25, 2008

"How Database and XML Can Be Used to Master UML Models, An Investigation", The proceedings of CCSC, April 2008

"A RAD Framework for Cross-platform GUI Development of MVDBMS Client-server Applications", The Proceedings of ISECON [Information Systems Education Conference] 2007, v 24 (Pittsburgh): §3325. ISSN: 1542-7382

"Online Content Editing - An Evaluation and Comparative Study", The Proceedings of Information Systems Education Conference 2006 (ISECON 2006), v 23 (Dallas): §5112. ISSN: 1542-7382

"Summary and Review of the Suitability of Microsoft Access 2003 as a Software Prototyping Tool for a Small IT Department", The Proceedings of Information Systems Education Conference 2006 (ISECON 2006), v 23 (Dallas): §5113. ISSN: 1542-7382

"The Application of Semantic Enablers in the Context of Content Management Systems", The Journal of Issues in Informing Science and Information Technology, Volume 3, 2006, Pages 551-562

"Entropy: Form follows function", The Journal of Issues in Informing Science and Information Technology, Volume 3, 2006, Pages 581-600

"Advanced Data Clustering Methods Of Mining Web Documents", The Journal of Issues in Informing Science and Information Technology, Volume 3, 2006, Pages 563-580

"Automatically Generating Questions in Multiple Variables for Intelligent Tutoring", The Journal of Issues in Informing Science and Information Technology, Volume 2, 2005, Pages 471-480

"Design, Development and Deployment Considerations when Applying Native XML Database Technology to the Programme Management Function of an SME", The Journal of Issues in Informing Science and Information Technology, Volume 2, 2005, Pages 523-541

"Redesign of Stand-Alone Applications into Thin-Client/Server Architecture", The Journal of Issues in Informing Science and Information Technology, Volume 2, 2005, Pages 723-742

"SMARTVIEW - An Intelligent EXPERT SYSTEM Tool using JAVA and JESS Framework", The Information Systems Education Journal, Volume 3, 2005, Issue Number 31

"Reconciling Principle and Practice in a LAN Course: A Simulation and Lab Mixed Approach", The Information Systems Education Journal, Volume 3, 2005, Issue Number 27

"A Client-Server Remote Program Interface Tool for Multi-Platform Database Access using XML WEB Services", Proceedings of The 8th World Multi-Conference on SYSTEMICS, CYBERNETICS AND INFORMATICS - SCI 2004, Orlando, Florida, July 18-21, 2004

"Universal Help Desk Database Access Tool Using C# and WEB Services on the .NET Platform", Proceedings of the 2004 Informing Science and IT Education Joint Conference, Rockhampton, QLD Australia, June 25-28, 2004

"On-line Learning and Ontological Engineering", Journal of Issues in Informing Science and Information Technology, Volume 1, 2004, pages 157-170

"Teaching Computer Architecture: A quantitative Approach, A Practical Approach to Intelligent Tutoring", Proceedings of the International Conference on Computers in Education, Hong Kong, Dec 2-5, 2003, pages 1127-1136

 "Question Difficulty Assessment in Intelligent Tutor System for Computer Architecture", Information Systems Education Journal, Volume 1, Number 51, 2003, ISSN 1545-679X, http://isedj.org/1/51

"Assessment Strategies for Measuring Student Success in On-Line Masters of Information Technology", World Conference on E-Learning in Corp., Govt., Health. & Higher Ed. 2003(1), 645-648

"Voice over Internet Protocol - A Revolutionary Change", Proceedings of the Syllabus 2002 conference, Santa Clara Convention Center, Santa Clara, California, July 27-31, 2002

"Database Selection Considerations For Client/Server Environment", Proceedings of the Syllabus 2002 conference, Santa Clara Convention Center, Santa Clara, California, July 27-31, 2002

"Using Online Courses in Computer Science: Pros and Cons", Proceedings of the 32nd ACM SIGCSE Technical Symposium on Computer Science Education Charlotte, NC, USA, February 21-25, 2001

"JAVA-Based Virtual Network Platform for Development of Intelligent Routing Algorithms for Wireless Network Topologies", Proceedings of the 35th SIGCSE Technical Symposium on Computer Science Education, Austin, Texas, March 8-12, 2000

"Building a Next-Generation Infrastructure for Software Education Support", Proceedings of the Real-Time Computing in Software Engineering Education, Austin, Texas, March 6-8, 2000

"Developing Online Courses: Issues and Solutions", Proceedings of the 1999 Syllabus Conference, Santa Clara, CA, July 25-30, 1999

"A Novel Genetic Algorithm for Finding Faults Early and Reliably in Software Modules", Proceedings of 1999 International Joint Conference on Neural Networks, Washington, DC, July 10-16, 1999

"Developing Client-server Applications Using Power Builder 6.0 and Sybase", Lab Manual for CS 519 Database Systems Graduate Course, July 1999

"Countdown to the Millennium Bug, APU life", God First 1989-1999, Spring, 1999

"Supporting Classroom Instruction with Web-based Technologies", Proceedings of the ACM Thirtieth SIGCSE Technical Symposium on Computer Science Education, New Orleans, LA, March 24-28, 1999

"ORACLE 8.0 on NT server 4.0", Manuscript and Tutorial, Graduate Course CS 560 Advanced Database Applications, 1998

"An Application of Genetic Programming to the Problem of Early Prediction of Fault-Prone Modules", Proceedings of the Fifth Pacific Northwest Software Quality Conference, 1997

"Client/Server Application Development Using ORACLE FORMS 4.5", Manuscript and a Tutorial for Advanced Database Applications, 1996

"Knowledge Representation for Fuzzy Logic Using Lisp", The Journal of Computing in Small Colleges, Volume 10, Number 5, May 1995, pages 52-59

"The Fuzzy Paradigm and its Applications", Proceedings of the Twenty- Eighth Annual Small College Computing Symposium, Augustana College, Sioux Falls, SD, April 21-22, 1995, pages 219-218

"Using DERIVE in Linear Algebra", Proceedings of the Seventh Annual International Conference on Technology in Collegiate Mathematics, Orlando, FL, November 17-20, 1994

"Graphs as a Language to Describe Learning System Concepts", Proceedings of The Eighth SIGAPP Symposium on Applied Computing, Indianapolis, Indiana, USA, February 14-16, 1993, pages 469-475

"A Generalized Implicit Function Theorem and Its Applications to Optimal Control", Proceedings of the International Conference on Mathematical Modeling in Science and Technology, Indian Institute of Technology, Madras, India, August 11-14, 1988, pages 213-220

"The Lagrange Principle for Smooth Convex Problems and Its Applications", "Vesnik", Moscow State University, February 1987

"The Lagrange Principle for Regular Smooth Approximately Convex Problems with Mixed Constraints", "Deponiravania", Moscow, USSR, 1986

"Lagrange Principle for Smooth Approximately Convex Problems and Its Applications", Dissertation, 1986

Refereed Conference / Workshop Presentations

"Teaching Programming Style With Ugly Code", 2013 Information Systems Educators Conference, San Antonio Texas, USA, November 7-10, 2013.

"Relational Algebra and SQL: Better Together", 2012 Information Systems Educators Conference, New Orleans Louisiana, USA.

"Software Engineering Frameworks: Life Cycle Changes", 2012 Information Systems Educators Conference, New Orleans Louisiana, USA.

"Software Engineering Frameworks: Perceptions of Second-Semester Students", Informing Science + Information Technology Education, Joint Conference, InSITE 2012, Montreal, Canada, June 22-27, 2012

"Overview of the Test Driven Development Research Projects and Experiments", Informing Science + Information Technology Education, Joint Conference, 2012, Montreal, Canada, June 22-27, 2012

"Problem Solving Frameworks for Mathematics and Software Development", Paper presented at the 2011 Information Systems Educators Conference, Wilmington, North Carolina, USA.

"Software Engineering Frameworks: Textbooks vs. Student Perceptions", Paper presented at the 2011 Information Systems Educators Conference, Wilmington, North Carolina, USA.

"A probability model for Belady's Anomaly", The Information Systems Education Conference, ISECON 2009, Washington D.C., November 4-8, 2009.

"Formal Information Security Standards in German Medium Enterprises", The Information Systems Education Conference/ Conference on Information Systems Applied Research, ISECON/CONISAR *2008*, Phoenix, AZ, November 6-9, 2008

"Web Based Data Capture for Clinical Research", Informing Science + Information Technology Education, Joint Conference, InSITE 2008, Varna, Bulgaria, June 22-25, 2008

"How Database and XML Can Be Used to Master UML Models, An Investigation", First Annual Consortium for Computing Sciences in Colleges Southwestern Regional Conference, California State University, Northridge, CA, April 18 & 19, 2008

"A RAD Framework for Cross-platform GUI Development of MVDBMS Client-server Applications", The Information Systems Education Conference, ISECON *2007*, Pittsburgh, PA, November 1-14, 2007

"The Application of Semantic Enablers in the Context of Content Management Systems", and "Advanced Data Clustering Methods Of Mining Web Documents", Informing Science + Information Technology Education, Joint Conference, InSITE 2006, Manchester, UK, June 25-28, 2006

"Design, Development and Deployment Considerations when Applying Native XML Database Technology to the Programme Management Function of an SME", Informing Science + Information Technology Education, Joint Conference, InSITE 2005, Flagstaff, AZ, June 16-19, 2005

"SMARTVIEW - An Intelligent EXPERT SYSTEM Tool using JAVA and JESS Framework", The Information Systems Education Conference, Newport, RI, November 4-7, 2004

"Reconciling Principle and Practice in a LAN Course: A Simulation and Lab Mixed Approach", The Information Systems Education Conference, Newport, RI, November 4-7, 2004

"A Client-Server Remote Program Interface Tool for Multi-Platform Database Access using XML WEB Services", The 8th World Multi-Conference on SYSTEMICS, CYBERNETICS AND INFORMATICS - SCI 2004, Orlando, FL, July 18-21, 2004

"Question Difficulty Assessment in Intelligent Tutor System for Computer Architecture", The Information Systems Education Conference, San Diego, CA, November 6-9, 2003

"Voice over Internet Protocol - A Revolutionary Change", The Syllabus 2002 conference, Santa Clara Convention Center, Santa Clara, CA, July 27-31, 2002

"Database Selection Considerations For Client/Server Environment", The Syllabus 2002 conference, Santa Clara Convention Center, Santa Clara, CA, July 27-31, 2002

"Using Online Courses in Computer Science: Pros and Cons", ACM SIGCSE - The 32nd Technical Symposium on Computer Science Education Charlotte, NC, February 21-25, 2001

"JAVA-Based Virtual Network Platform for Development of Intelligent Routing Algorithms for Wireless Network Topologies", The Conference Proceedings of the Thirty-five SIGCSE Technical Symposium on Computer Science Education, Austin, TX, March 8-12, 2000

"Building a Next-Generation Infrastructure for Software Education Support", The Conference of the Real-Time Computing in Software Engineering Education, Austin, TX, March 2000

"Developing Online Courses: Issues and Solutions", The 1999 Syllabus Conference, Santa Clara, CA, July 25-30, 1999

"A Novel Genetic Algorithm for Finding Faults Early and Reliably in Software Modules", The 1999 International Joint Conference on Neural Networks, Washington, DC, July 10-16, 1999

"Supporting Classroom Instruction with Web-based Technologies", The ACM Thirtieth SIGCSE Technical Symposium on Computer Science Education, New Orleans, LA, March 24-28, 1999

"An Application of Genetic Programming to the Problem of Early Prediction of Fault-Prone Modules", The 5th Pacific Northwest Software Quality Conference, 1997

"Knowledge Representation for Fuzzy Logic Using Lisp", The First Central Plains Small College Computing Conference, Bolivar, MO, March 31 - April 1,1995

"The Fuzzy Paradigm and its Applications", The Twenty-Eighth Annual Small College Computing Symposium, Augustana College, Sioux Falls, SD, April 21-22, 1995

"Using DERIVE in Linear Algebra", the Seventh Annual International Conference on Technology in Collegiate Mathematics, Orlando, FL, November 17-20, 1994

"On Canonical Coloring for Permutation Graphs", invited presentation at the spring meeting of the Missouri Section of the MAA, Missouri Southern State College, Joplin, MO, April 9-10, 1994

"Are Your Relations Transitive?" invited presentation at the spring meeting of the Missouri Section of the MAA, Westminster College, Fulton, MO, April 2-3, 1993

"The Ten Commandments in Mathematics", invited presentation at the spring meeting of the Missouri Section of the MAA, Northwest Missouri State University, Maryville, MO, April 10-11, 1992

"An Expert System for Faculty Productivity-Intelligent Advising Systems", The Twentieth Annual Computer Science Conference, Kansas City, MO, March 3-5, 1992

"Graphs as a Language to Describe Learning Systems Concepts", the Twentieth Annual Computer Science Conference, Kansas City, MO, March 3-5, 1992

"The Lagrange Smooth Approximation and Its Application to Optimal Control", invited presentation at the spring meeting of the Missouri Section of the MAA, University of Missouri- Rolla, April 5-6, 1991

Refereed Conference / Workshop Attendance

- The Information Systems Education Conference, ISECON/CONISAR, San Antonio, Texas, USA November 7-10, *2013*
- The Information Systems Education Conference, ISECON/CONISAR, New Orleans Louisiana, USA November 1-4, *2012*
- Conference on Online Education (IT, CS), University of Liverpool, UK, July 6-9, 2009
- The Information Systems Education Conference, ISECON/CONISAR, Phoenix, AZ, November 6-9, *2008*
- The Information Systems Education Conference, Pittsburgh, PA, November 1-4, 2007

- Informing Science + Information Technology Education, InSITE, Manchester, UK, June 25-28, 2006
- Informing Science + Information Technology Education, InSITE, Flagstaff, AZ, June 16-19, 2005
- The Information Systems Education Conference, Newport, RI, November 4-7, 2004
- The 8th World Multi-Conference on SCI, Orlando, FL, July 18-21, 2004
- The Information Systems Education Conference, San Diego, CA, November 6-9, 2003
- .NET and C# Mini Conference, Costa Mesa, CA, November 7th, 2002
- ACM the 33rd Technical Symposium on CS Education, Charlotte, NC, February 27-March 3, 2002
- On-line Conference on Information Technology, Spring 2001
- Microsoft .NET Developers workshop, Irvine, CA, September 10 -11, 2001
- Americas Conference on Information Systems, Boston, MA, August 2-6, 2001
- MSDN Quarterly Briefing: Nothing but .NET, March 20, 2001
- Microsoft TechNet Conference, March 6, 2001
- ACM the 32nd Technical Symposium on Computer Science Education, Charlotte, NC, Feb.21-25, 2001
- Advanced Systematic Inventive Thinking, on-line conference, October 12, 2000
- ACM Thirty-first SIGCSE Technical Symposium on Computer Science Education, March 8-12, 2000
- Real-Time Computing in Software Engineering Education, March 2000
- Online Training seminar, Convene CLIP, April 2000
- Online Instructor Development Training, UCLA/Onlinelearning.net
- Special Training on Sexual harassment, Azusa Pacific University, May 16, 2000
- APU Leadership Planning, Envisioning, and Assessment Conference, Carlsbad, CA
- The International Joint Conference on Neural Networks, Washington, DC, July 10-16, 1999
- National Syllabus Conference, Santa Clara, CA, July 25-30, 1999
- The "Basic Supervision" - Workshop, American Management Association, Ontario, CA, 1999
- ACM 30th SIGCSE Technical Symposium on CS Education, New Orleans, LA, March 24-28, 1999
- Troubleshooting, Support and Networking Windows 95/98, by CompuMaster
- Independent California College & University Faculty Association (ICCUFA) conference, March 27, 1998
- The Azusa Pacific University Leadership Planning, Envisioning, and Assessment conference, UCLA, 1998
- Database Summit Conference, San Diego, CA, December 3-6, 1997
- Fifth Pacific Northwest Software Quality Conference, Portland, OR, 1997
- Mastering DataWindow Technology, NextGen SI, Irvine, CA, 1997
- Introduction to ORACLE: SQL, SQL*PLUS, PL/SQL using Procedure Builder by Oracle, 1996
- Developer / 2000 Foundation by Oracle Corporation, 1996
- Oracle Forms I version 4.5 by Oracle Corporation, 1996
- Fast Track to PowerBuilder by PowerSoft Corporation, 1996
- The NSF workshop on "Parallel Processing for Undergraduate Educators", the University of
- Northern Iowa, IA, July 17-21, 1995
- The ACM Twenty-First Annual Computer Science Conference, Indianapolis, IN, February 14-16, 1993
- The National convention of Kappa Mu Epsilon, Niagara University, April 22-25, 1993
- The 1992 ACM Twentieth Annual Computer Science Conference", Kansas City, MO, March 3-5, 1992
- The Workshop on Parallel Computing Of Discrete Optimization Problems, University of Minnesota,
- Minneapolis, MN, May 22-24, 1991
- The ACM Nineteenth Annual Computer Science Conference, San Antonio, TX, March 5-7, 1991
- The ACM Eighteenth Annual Computer Science Conference, Washington D.C, February 22-23, 1990
- The ACM Seventeenth Annual Computer Science Conference, Louisville, KY, February 1989

Committee Involvement
- Member, University On-line Learning Task Force Council, Azusa Pacific University, 2004-Present
- Member, University Assessment Council (UAC), Azusa Pacific University, 2004-Present
- Chair, Center for Research in Science Advisory Council, Azusa Pacific University, 2004-Present
- Member, Science Building Task Force, Azusa Pacific University, 2004-Present

- Advisor, APU Silas Project, Technology committee, Azusa Pacific University, 2002-2003
- Member, APU Wireless Task Force, Azusa Pacific University, 2001-2002
- Member, University Information Management Committee (UIMC), 2001-Present
- Member, APU CIO Search Committee, Azusa Pacific University, 2001
- Member, CLAS Associate Dean Search Committee, 2001
- Member, APU Presidential Search Committee, Azusa Pacific University, 2000
- Member of the APU Presidential Search Committee, Azusa Pacific University, 2000
- Member of the APU Chief Information Officer Search Committee, Azusa Pacific University, 2000
- Member, OI Advisory Board and Reference Council, Azusa Pacific University, 2000
- Member, CiTE Advisory Board for eCollege.com, Denver, Colorado, 1999-Present
- Chair, Graduate Studies Council, Azusa Pacific University, 1998-2001
- Chair, Computer Science Department Faculty Search Committee, 1997-2007
- Organized the Tech Expo, LA Convention Center for Computer Science programs, 1997-Present
- Member of the APU Technology Advisory Committee, Azusa Pacific University, 1996-Present
- Budget preparation and control, Computer Science Department, Azusa Pacific University, 1996-Present
- Member, Technology Learning Teaching Round Table Committee, Azusa Pacific University, 1996-2002
- Member, Graduate Studies Council, Azusa Pacific University, 1996-2001
- Member, Curriculum and Program Evaluation Sub-Committee, Azusa Pacific University¸ 1996-Present
- Member, Program Evaluation Committee-Biology, Chemistry Department, Azusa Pacific University, 1996
- Financial Supporter, Dinner Rally, Azusa Pacific University, 1996-Present
- Member, Marketing Committee for the Computer Science Dept., Azusa Pacific University, 1996-Present
- Regular attendee at University sponsored faculty workshops, 1996-Present
- Senator - MWSC Faculty Senate, Missouri Western State College, 1995-96
- Chair - Academic Standards & Regulations Committee, Missouri Western State College, 1994-95
- Academic Standards & Regulations Committee, Missouri Western State College, 1993-94
- International Committee, Missouri Western State College, 1991-95
- Assessment Committee, Missouri Western State College, 1993-94
- Multicultural Education Committee, Missouri Western State College, 1992-94

LANGUAGES/TOOLS

C#, JAVA, HTML, C++, C, PASCAL, FORTRAN, LISP, PROLOG, ASSEMBLY, BASIC, COBOL, SQL,SQL*PLUS, PL/SQL, DBASE III, DBASE IV, PowerBuilder, Oracle

SYSTEMS USED

IBM RS/6000, HP 9000, HP 3000/42,VAX/VMS, UNIX, IBM 4341, PDP-11, MS-DOS, MAC II, IBM PC

PROFESSIONAL MEMBERSHIPS

- Association for Computing Machinery (ACM) – Senior Voting Member
- Special Interest Group on Computer Science Education(SIGCSE) - Voting Member