Dr. Michael Victor Doran

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CS OFFICE:
University of South Alabama
School of Computing – Shelby Hall 1127
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HONORS OFFICE:
University of South Alabama
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EDUCATION:

Ph.D - Computer Science, Tulane University, May 1989
M.Engr. - Computer Science, Tulane University, May 1984
B.S.C.S. - Computer Science, Cum Laude, Tulane University, May 1982

Academic Appointments:

2009 to the present: University of South Alabama (USA), Honors Program
Director of the USA Honors Program. August 2011 to the present
Assistant Director of the USA Honors Program, January 2009 to August 2011

1988 to the present: University of South Alabama (USA), School of Computing (SoC)
Academic Ranks:
Professor of CS, August 2000 to the present
Coordinator of CS Program, January 1997 to August 2011
Tenured Associate Professor of CS, August 1995 to August 2000
Assistant Professor of CS, August 1989 to August 1995
Instructor of CS, January 1988 to August 1989
Full research member of graduate faculty, 1993 to the present.
Associate Member of graduate faculty, 1989 to 1993.

1981-1987 Tulane University, Department of Computer Science
1983-1987 - Adjunct Instructor
Taught Introduction to FORTRAN (CS 101), Introduction to Computing II (CS 102), Introduction to Computing Pascal (CS 103), Software Design and Programming (CS 117), Introduction to Computer Organization (CS 201), Introduction to Assembly Language (CS 202), and System Software Principles (CS 306).

1983-1987 - System Manager of Computer Science Department VAX 11/780

1981-1983 & 1986 - Teaching Assistant
Taught lab sessions for CS 101, CS 102, CS 201 and Numerical Analysis (CS 333).

PROFESSIONAL ORGANIZATIONS:

Association of Computing Machinery (ACM)
ACM-SIGART, ACM-SIGPLAN, ACM-SIGSOFT, ACM-SIGCSE
American Association of Artificial Intelligence (AAAI)
Institute of Electrical and Electronics Engineers (IEEE)
American Society for Engineering Education (ASEE)
International Association of Computer Information Systems (IACIS)
Association for Information Systems (AIS)
Tulane Computer Society
Society of Tulane Engineers

REFEREED JOURNALS

"A Voice Operated Tour Planning System for Autonomous Mobile Robots", J. Licato, C. Smith, M. Doran and T. Thomas, Journal of Systemics, Cybernetics and Informatics, Vol 8 #3, Spring 2010, pp 72-79..

"Using Mobile Robots to Explore Intelligent Behaviors: The Obstacle Course Challenge", M. Ward, M. Doran, W. Simmons, Computers in Education Journal, Vol XIII No. 1, January – March 2003.

"Encouraging Students to Adopt Software Engineering Methodologies: The Influence of Structured Group Labs on Beliefs and Attitudes", Jeffrey P. Landry, J. Harold Pardue, Michael V. Doran and Roy J. Daigle, Journal of Engineering Education, Vol 91, #1, January 2002.

"A Cognitive Map Developed from Haptic Information", K. Onuka, W. Nowack, M. Doran and M . Niccolai, Journal of Computer Science and Information Management, 2001.

"The Evolving Role of Faculty: Traditional Scholarship. Instructional Scholarship and Service Scholarship", W. Owen, R. Daigle, M. Doran and D. Feinstein, Journal of Information Systems Education, Vol 11 #3-4, Summer-Fall 2000, pp 93-96.

"Changing the CIS Academic Culture: Using Senior Design Projects to Unify the Curriculum", R. J. Daigle, M. V. Doran and R. M. Ryder, Journal of Information Systems Education, Vol 10 #2, Fall 1999, pp 23-27.

"Group Zig Zag: An Extension of McCaulley's Model", R. J. Daigle M. V. Doran and J. H. Pardue, Journal of Psychological Type, Vol 48 1999, pp 34-41.

"Facilitating Bloom's Level One through Active Learning and Collaboration", Roy J. Daigle and Michael V. Doran, Journal of Information Systems Education, Vol 9 #3, Winter 1998, pp 3-6.

"Beyond the Classroom: Mentoring in the CIS Academic Community", Michael V. Doran, Roy J. Daigle and Robert A. Robertson, Journal of Information Systems Education, Vol 9 #3, Winter 1998, pp 15-18.

"The Development of Problem Solving Skills in CS1 and CS2: A Synthesis of Polya and Software Engineering Principles", J. H. Pardue, Michael V. Doran and H. E. Longenecker Jr., Computer Science Education Journal, Vol 7 #2, Fall 1996.

"Participation: The Key to Developing a Faculty Performance Evaluation Instrument", R. J. Daigle, M. V. Doran, D. L. Feinstein, and S. N. Vest, The Department Chair: A Newsletter for Academic Administrators, Summer 1996.

"Student Perception of Benefits of a Structured CS1 and CS2 Lab Environment", Michael V. Doran, J. H. Pardue and H. E. Longenecker Jr., The Journal of Computer and Information Systems, Volume XXXIV, number 4, summer 1994 pp 40-43.

GRANTS:
NSF:
"SGER: JagBot – An Autonomous Robotic Campus Tour Guide", September 1, 2007 – August 31, 2009, $175,055, by the National Science Foundation, PI – M. V. Doran, Co-PI W. E. Simmons and T. G. Thomas, Jr, Grant No. IIS-0744070, awarded September 2007. Awarded no cost extension August 2009 until February 2010.

"Computer Science, Engineering and Mathematics Research Scholars Program", September 2004-August 2008, $400,000 by the National Science Foundation, PI Robert C. Foley, Co-PI's Madhuri S. Mulekar, Francis Dougherty and Michael V. Doran. Grant No DUE-0422121, awarded September, 2004.

"Computer Science, Engineering and Mathematics Scholarship Program", August 2001- July 2003, $270,000 by the National Science Foundation, PI Judy P. Stout, Co-PI's Edmund Tsang, Madhuri S. Mulekar, Michael V. Doran, and Robert C. Foley. Grant No DUE-0094725, awarded February 28, 2001.

"A Concrete Multi-Level CIS Laboratory Experience", June 1, 1998 - May 31, 2000, $50,000 by the National Science Foundation ($51,292 USA match),PI Michael V. Doran, Co-PI's Marino J. Niccolai, Roy J. Daigle, Robert M. Ryder and Douglas R. Heisterkamp. Grant No DUE-9850752, awarded June 2, 1998

"Proposal for Summer and Spring Workshops to Disseminate the Results of the University of South Alabama NSF-CCD Grant (DUE-9455522): A Cognitive-Based Approach to Introductory CS Courses.", $62,946 by the National Science Foundation, with

PI David Feinstein, Co-PI's Michael V. Doran, Herbert E. Longenecker, David D. Langan and Hira Narang. Grant No. DUE-9554653, awarded November 1, 1995.

"A Cognitive-Based Approach to Introductory Computer Science Courses", June 1, 1995 - May 31, 1996, $89,976, by the National Science Foundation, with PI David Feinstein, Co-PI's Michael V. Doran, Herbert E. Longenecker and David D. Langan. Grant No. DUE-9455522, awarded January 31, 1995.

Government:
"Metrics for K-16 Computing Education Alabama Innovation Fund – Renewal", September 2012 – August 2013, $78,617 by Alabama Department of Commerce, PI Alec Yasinsac, Co-PI Michael Doran and Harvey L. Barnett, Awarded August 2012.

"2012 NIST SURF Agreement", May 2012 – August 2012, $8781 by US Department of Commerce, PI M. V. Doran, Award #70NANB12H068. Support Adam Moore CS Student summer fellowship.

Industry:
"Enhanced Real-Time and OS Labs for CS", January 2009-December 2009, $24,000 by Accelerated Technology – a Division of Mentor Graphics, PI M. V. Doran, Co-PI D Snow, Awarded November 2008.

"Support for an Embedded and Real-Time Environment Throughout the CS Curriculum", January 2008-December 2008, $20,000 by Accelerated Technology – a Division of Mentor Graphics, PI M. V. Doran, Co-PI D Snow, Awarded November 2007. $5,000 Summer supplement added May 2008.

"Enhanced Real-Time and OS labs for CS", October 2007 – June 2008, $212,623, by Mentor Graphics Higher Education Program (HEP), PI M. V. Doran, Co-PI D. Snow, Awarded September 2007.
"Support for an Embedded and Real-Time Environment Throughout the CS Curriculum", August 2007-August 2008, $16,250 by Mentor Graphics Higher Education Program (HEP), PI M. V. Doran, Co-PI D. Snow, Awarded May 2007.

"Support for an Embedded and Real-Time Environment Throughout the CS Curriculum", January 2007-December 2007, $20,000 by Accelerated Technology – a Division of Mentor Graphics, PI M. V. Doran, Co-PI W. E. Simmons and D Snow, Awarded November 2006. $5,000 supplement for summer support May 2007.

"Support for an Embedded and Real-Time Environment Throughout the CS Curriculum", January 2006-December 2006, $20,000 by Accelerated Technology – a Division of Mentor Graphics, PI M. V. Doran, Co-PI W. E. Simmons and D Snow, Awarded August 2005.

"Support for an Embedded and Real-Time Environment Throughout the CS Curriculum", August 2004-December 2005, $20,000 by Accelerated Technology – a Division of Mentor Graphics, PI M. V. Doran, Co-PI W. E. Simmons, Awarded August 2004.

"Support for an Embedded and Real-Time Environment Throughout the CS Curriculum", August 2003-May 2004, $20,000 by Accelerated Technology – a Division of Mentor Graphics, PI M. V. Doran, Co-PI W. E. Simmons, Awarded August 2003.

"Real-Time Processing Throughout the CS Curriculum", October 2002-August 2003, $78,950 by Accelerated Technology – a Division of Mentor Graphics, PI M. V. Doran, Co-PI W. E. Simmons. Awarded October 2002.

"Projects for PDA development and other Research", August 2001-August 2002, $93,000 by Accelerated Technology Inc, PI M. V. Doran, Co-PI W. E. Simmons. Awarded June 2001.

Other:
"The Creation of a Graphical Abstract Data Type Environment: DATA - Data to Algorithm Translation Analysis", March 1989 - 1990, $1840, Funded by The University of South Alabama Research Committee (USARC).

BOOK CHAPTERS
Michael V. Doran (2012), "Honors Senior Theses Are ABET Friendly: Developing a Process to meet Accreditation Requirements", In "The Other Culture: Science and Mathematics Education in Honors". Ed. Ellen B. Buckner and Keith Garbutt. Lincoln: National Collegiate Honors Council, 2012."

REFEREED CONFERENCE PUBLICATIONS:

"Capturing the Intention to Move: Testing a Brain-Computer Interface Using the Lateralized Readiness Potential", John Shelley-Tremblay, Michael Doran, Thomas Young, Southeastern Psychological Association (SEPA 2013) 59th Annual Meeting, Atlanta, GA. March 13-16th, 2013.

"Enhanced Situational Awareness in Autonomous Mobile Robots using Context-Based Mapping", Clay V. Smith, Michael V. Doran, Roy J. Daigle and Thomas G. Thomas, Jr., 2013 IEEE International Multi-Disciplinary Conference on Cognitive Methods in Situation Awareness and Decision Support (CogSIMA 2013), San Diego, CA. February 26-28, 2013.

"Enhanced Creativity and Problem Solving: An Interdisciplinary Approach", Michael Doran, John Shelley-Tremblay, Robert Coleman and Becky McLaughlin, Summer 2nd International Conference on Design and Modeling in Science, Education, and Technology (DeMset 2012) at the16[th] World Multiconference on Systems, Cybernetics and Informatics (WMSCI 2012) , Orlando, FL July 2012.

"Enhanced Creativity and Problem Solving: An Interdisciplinary Approach", Michael Doran, John Shelley-Tremblay, Robert Coleman and Becky McLaughlin, 2011 Interdisciplinary Conference of Association of History, Literature, Science and Technology, Houston, Texas, May 2011. (Accepted but Withdrawn)

"Robo-Billiards: A Game To Understand Adaptive Behavior of Middle School Students", Anthony K. Brown, Michael V. Doran, David D. Langan and Thomas G. Thomas, Jr., 2010 American Society for Engineering Education (ASEE 2010), Louisville, KY, June 20-23, 2010.

"An Autonomous Campus Tour Guide Robot as a Platform for Collaborative Engineering Design", Thomas G. Thomas, Jr., Michael V. Doran and James Sakalaukus, 2010 American Society for Engineering Education (ASEE 2010), Louisville, KY, June 20-23, 2010.

"The Hardware/Software Co-Design of an Autonomous Tour Guide Robot Based on a Human Neuroanatomy Model", Thomas G. Thomas, Jr., Michael V. Doran, James Sakalaukus, Michael Skinner, 2009 International Conference on Embedded Systems and Applications ESA'09: July 13-16, 2009, Las Vegas, NV

"Robotics to Stimulate Learning Opportunities: A Robot Campus Tour Guide", Thomas G. Thomas, Jr and Michael V. Doran, 7th International Conference on Education and Information Systems, Technologies and Applications (EISTA 2009), July 10-13, 2009, Orlando, FL

"A Voice Operated Tour Planning System for Autonomous Mobile Robots", Charles V. Smith III, John C. Licato, Michael V. Doran, and Thomas G. Thomas, Jr, 7th International Conference on Computing, Communications and Control Technologies (CCCT 2009), July 10-13, 2009, Orlando, FL (Best Paper in Session)

"Veronica JagBot – A Robotic Campus Tour Guide", Cordell C. Davidson, Michael V. Doran, W. Eugene Simmons, and Thomas G. Thomas, Jr., WorldComp'08, 2008 International Conference on Artificial Intelligence IC-AI'08, June 2008, Las Vegas, NV

"An Adaptive Robotic Putter: Using Visual Input to Handle Putts Involving a Uniform Slope", Jeremy D. Tapper, Michael V. Doran, W. Eugene Simmons, Thomas G. Thomas, Jr, WorldComp'07, 2007 International Conference on Artificial Intelligence IC-AI'07, June 2007, Las Vegas, NV

"Enhanced Communication Protocols Lead to Improved Robotic Navigation", Jeremy O. Blair and Michael V. Doran, WorldComp'07, 2007 International Conference on Artificial Intelligence IC-AI'07, June 2007, Las Vegas, NV

"Robotic Navigation by Blending of Local and Global Vision", Espen Oeyan, Michael V. Doran, W. Eugene Simmons, and Thomas G. Thomas, Jr, WorldComp'06, 2006 International Conference on Artificial Intelligence IC-AI'06, June 26-29, 2006, Las Vegas, NV

"A Melding of Educational Strategies to Enhance the Introductory Programming Course", Leo F. Denton, Dawn McKinney and Michael V. Doran, 35th ASEE/IEEE Frontiers in Education Conference (FIE 2005), Indianapolis, IN, October 19-22, 2005.

"Pianist Style: Can it be measured and recognized", David D. Langan, Charles L. Thompson, and Michael V. Doran, Proceedings of the 43rd Annual Association of Computing Machinery (ACM) Southeast Conference, Kennesaw, GA, March 18-20, 2005.

"The Role of Communication in the Coordination of Intelligent Agents in a Semi-Adversarial System", Jerrolyn A. Hebert, Michael V. Doran and David D. Langan, 2003 International Conference on Artificial Intelligence (IC-AI'03), June 23-26, 2003, Las Vegas NV.

"Simulation of Animal Behaviors Using Robotic Agents", Jerrolyn A. Hebert, Michael V. Doran and Charles Brown, 7th World Multiconference on Systems, Cybernetics and Informatics (WMSCI 2003), Orlando, FL July 2003 (Best Paper in Session Award)

"The Creation of a Partnership to Guide the CIS Curriculum", Michael V. Doran, Jerrolyn Hebert, Haukur Ragnarsson,, W. Eugene Simmons, Joshua Harrison, Neil Henderson, Douglas Philips and Mike Trippi, 2003 American Society for Engineering Education (ASEE 2003), Nashville, TN, June 2003.

"Promoting Student Achievement With Integrated Affective Objectives", Dawn McKinney, Leo F. Denton and Michael V. Doran, American Society for Engineering Education (ASEE 2003), Nashville, TN, June 2003.

"Observed Benefits of an Industrial Partnership: Everyone's a Winner!". Michael V. Doran, Jerrolyn Hebert, Haukur Ragnarsson, and W. Eugene Simmons. ASEE Southeast Regional Conference, April 6-8, 2003, Macon, GA.

"Performance in a Haptic Environment". Michael V. Doran, William Owen and Brian Holbert, International Association for Computer Information Systems (IACIS 2002), Issues in Information Systems Vol III October 2002, pp 165-171.

"Integrated Use of Bloom and Maslow for Instructional Success in Technical and Scientific Fields", Leo F. Denton, Michael V. Doran and Dawn McKinney, American Society for Engineering Education (ASEE 2002), Montreal, Canada, June 2002.

"Using Mobile Robots to Explore Intelligent Behaviors: The Obstacle Course Challenge", Michael D. Ward, Michael V. Doran and W. Eugene Simmons, American Society for Engineering Education (ASEE 2002), Montreal, Canada, June 2002.

"Computer Metrics to Analyze Musical Styles". Charles L. Thompson Jr., David D. Langan, and Michael V. Doran, Proceedings of the 40th Annual ACM Southeast Conference, Raleigh, North Carolina, April 26-27, 2002, pp. 147-152

"The Evolving Role of Faculty: Traditional Scholarship. Instructional Scholarship and Service Scholarship", W. Owen, R. Daigle, M. Doran and D. Feinstein, Information Systems Educators Conference (ISECON 2000), Philadelphia, PA, November 2000. (Best Paper award)

"Using UML to Facilitate the Object-Oriented paradigm: Shifting a RoboCup Client From C to C++", J. Robinson, M. Doran, O. Fadeji, J. Maronge, M. Ward, International Association for Computer Information Systems (IACIS 2000), Las Vegas, NV, October 2000, pp. 386-392.

"The Use of Haptic Information to Develop a Cognitive Map", K. Onuka, W. J. Nowack, M. V. Doran, and M. J. Niccolai, Proceedings of the 18th Annual International Conference of the Association of Management, 18 (3), San Antonio, TX, August 2000, pp 120-122.

"Changing the CIS Academic Culture: Using Senior Design Projects to Unify the Curriculum", Roy J. Daigle, Michael V. Doran and Robert M. Ryder, Information Systems Educators Conference (ISECON'99), October 1999, Chicago, IL.

"The Impact of Software Development Methodologies on Reuse", M. V. Doran, J. P. Landry and G. W. Clark, International Association for Computer Information Systems (IACIS'99), October 1999, San Antonio, Texas.

"The Creation of Common CIS Foundation Course Sequences for Graduate Entry", Michael V. Doran, Roy J. Daigle, David L. Feinstein and Herbert E. Longenecker, Jr., Proceedings of the 13th Annual Conference of International Academy for Information Management, December 11-13, 1998, Helsinki, Finland.

"Facilitating Bloom's Level One through Active Learning and Collaboration", Roy J. Daigle and Michael V. Doran, Information Systems Educators Conference (ISECON'98), October 15-18, 1998, San Antonio, Texas. (Best paper award)

"An Empirical Study of Reuse in Software Development", Michael V. Doran, Marino J. Niccolai and George W. Clark, International Association for Computer Information Systems (IACIS 1998), October 1-3, 1998, Cancun, Mexico.

"Cultivating Life-Long Learning through Student Participation in Exam Development", Roy J. Daigle and Michael V. Doran, 4th Americas Conference on Information Systems (AIS 1998), August 14-16, 1998, Baltimore, Maryland.

"Beyond the Classroom: Mentoring in the CIS Academic Community", Michael V. Doran, Roy J. Daigle and Robert A. Robertson, Information Systems Educators Conference (ISECON'97), October 17-19, 1997, Orlando, FL. (Best paper award)

"Student Perspective on Learning Based on A Cognitive-Based Approach", Michael V. Doran and David D. Langan, International Association for Computer Information Systems (IACIS 1997), October 2-4, 1997, St. Louis, MO.

"The Influence of Group Labs on Student Adoption of Software Methodologies: An Empirical Test", Jeffrey P. Landry, J. Harold Pardue Michael V. Doran and Roy J. Daigle, 3rd Americas Conference on Information Systems (AIS 1997), August 15-17, 1997, Indianapolis, IN.

"CURSE: A Graphical Curriculum Editor", Logan Holt, James Talton and Michael V. Doran, International Association for Computer Information Systems (IACIS 1996), September 1996, Las Vegas, NV.

"A Framework to Consider CIS Projects By Non-Majors Entering CIS Graduate Programs", Michael V. Doran, Association for Information Systems, 2nd Americas Conference on Information Systems (AIS 1996), August 16-18, 1996, Phoenix, AZ.

"A Cognitive-Based Approach to the Implementation of the Introductory Computer Science Programming Sequence", D. D. Langan, M. V. Doran, D. L. Feinstein and H. E. Longenecker, American Society for Engineering Education (ASEE 1996), Summer Symposium, June 1996, Washington D.C.

"Integrating Collaborative Problem Solving Throughout the Curriculum", M. V. Doran, R. J. Daigle and J. H. Pardue, SIGCSE'96 ACM Special Interest Group on Computer Science Education Technical Symposium, February 1996, Philadelphia, PA.

"An Application of Participatory Development: Developing a Faculty Performance Evaluation Document", R. J. Daigle, M. V. Doran, D. L. Feinstein and S. N. Vest, 13th Annual Conference Academic Chairpersons, February 1996, Orlando, FL.

"A Group Problem-Solving Model for the CIS Curriculum", M. V. Doran, R. J. Daigle and J. H. Pardue, Association for Information Systems Inaugural Conference (AIS 1995), August 25-27, 1995, Pittsburgh, PA.

"A Cognitive-Based Approach to Introductory Computer Science Courses: Lessons Learned", M. V. Doran and D. D. Langan, SIGCSE'95 ACM Special Interest Group on Computer Science Education Technical Symposium, March 1995, Nashville, TN.

"A Systems Approach to a Data Structures Course for Information Systems Students Consistent With DPMA IS'90, M. V. Doran, H. E. Longenecker Jr. and J. H. Pardue, Information Systems Educators Conference (ISECON'94), October 28-30, 1994, Louisville, KY.

"A Taxonomy for Presenting I/O", D. D. Langan, M.V. Doran and R. J. Daigle, 32nd Annual ACM Southeast Regional Conference, March 17-18, 1993, Tuscaloosa, AL.

"Application of Task Management Principles in the Introductory Software Development Course Sequence", T. Zito, H. E. Longenecker Jr. and M. V. Doran, International Academy for Information Management, December 3-5, 1993, Orlando, FL.

"Strategies for Success in CS1 and CS2: Implications of Polya in Implementing Software Engineering Principles", M. V. Doran, H. E. Longenecker Jr. and J. H. Pardue, The Association of Management 11th Annual Conference - Information and Technology Management Group, August 5-9, 1993, Atlanta GA, invited paper.

"IS'93: The DPMA 2 Year Model Curriculum - A Natural Evolution from IS'90, A Strong Information Systems Foundation", H. E. Longenecker Jr, D. L. Feinstein, M. V. Doran, L. Zenkert, R. Fournier and W. R. Reaugh, International Academy for Information Management, December 11-13, 1992, Dallas, TX.

"The Conceptual Relevance of TQM in the Information System Curriculum IS'90", H. E. Longenecker Jr , M. V. Doran and D. L. Feinstein, International Academy for Information Management, December 11-13, 1992, Dallas, TX.

"A Comprehensive Survey of U.S. Two-Year Academic Undergraduate Programs in Computer Information Systems", H. E. Longenecker, Jr. D. L. Feinstein, R. Fournier, M. V. Doran, L. Zenkert, and W. R. Reaugh. Information Systems Educators Conference (ISECON 1992).

"SLAW/DATA Graphical Structure Editor Environment", M. V. Doran and H. E. Longenecker Jr., Workshop on Structure Editors - SIGCHI'90 ACM Special Interest Group on Computer Human Interfaces, limited attendance, invitational workshop, April 1-2, 1990, Seattle, WA.

"The Inclusion of an Expert Tutor into the SLAW Programming Environment", M. V. Doran, V. J. Law and F. E. Petry, 26th Annual ACM Southeast Region Conference, April 21-22, 1988, Mobile, AL.

"SLAW: A Tool for Computer Science Education", M. V. Doran, S. M. Sheasby and V. J. Law, Mid-Southeast Chapter Fall ACM Meeting, Oct. 30-31, 1986, Gatlinburg, TN. 2nd Place Student Paper Competition.

REVIEWED CONCISE PAPERS/POSTERS

"Investigating a Voice Enabled Robotic System in a Noisy Environment" by Cordell C. Davidson, Michael V. Doran and Thomas G. Thomas, Jr., CIC'08 17th International Conference on Computing, Mexico City, Mexico, December 3-5, 2008.

"Refining the Definition of a Breadth-First Introductory Course to Computing", Richard S. Johnson, Debra Chapman, Leo F. Denton, and Michael V. Doran, ACM Mid-Southeast Chapter Fall Conference, November 13-14, 2003, Gatlinburg, TN.

"Robots As A Teaching Tool at the Introductory Level", Patricia M. Williams, Michael V. Doran and Michael D. Ward, American Society for Engineering Education (ASEE 2003), Nashville, TN., June 2003.

"A Cognitive-Based Approach to the Implementation of the Introductory Computer Science Programming Sequence", M. V. Doran, D. D. Langan, D. L. Feinstein and H. E. Longenecker, American Society for Engineering Education (ASEE 1996), June 1996, Washington D.C.

"Perceptions of Faculty Evaluation: Consensus Based on Participatory Development", with R. J. Daigle, D. L. Feinstein and S. N. Vest, 32nd Annual ACM Southeast Regional Conference, March 17-18, 1994, Tuscaloosa, AL.

"A Design Standard For Controlled and Auditable Information Systems", with J. May and H. E. Longenecker Jr., 31st Annual ACM Southeast Regional Conference, April 14-16, 1993, Birmingham, AL.

"A Facilitator Controlled, Database Oriented, Electronic Meeting Idea Network Development, Classification and Evaluation System", with S. P. LaBoe and H. E. Longenecker Jr., 31st Annual ACM Southeast Regional Conference, April 14-16, 1993, Birmingham, AL.

Developing PERT and Gantt Charts to Establish Clear Objectives Interfacing with Tracking Methods in Support of an Advanced Undergraduate Laboratory", with B. Fisackerly and H. E. Longenecker Jr., 31st Annual ACM Southeast Regional Conference, April 14-16, 1993, Birmingham, AL.

"Improved Learning by Use of a Video Knowledge-Base", with T. C. Benson and H. E. Longenecker Jr, 30th Annual ACM Southeast Regional Conference, April 8-10, 1992, Raleigh, NC.

"Group Learning in the Computer Science Environment", with J. H. Pardue and H. E. Longenecker Jr., 29th Annual ACM Southeast Regional Conference, April 10-12, 1991, Auburn, AL.

"SLAW & DATA: A Consensus Among Proficient Computer Science Students Studying At The University of South Alabama", with G. W. Lange and H. E. Longenecker Jr., 29th Annual ACM Southeast Regional Conference, April 10-12, 1991, Auburn, AL.

"The Definition of a Representation to Model Human Pedigree Systems", with C. E. Garner Jr. and H. E. Longenecker Jr., 29th Annual ACM Southeast Regional Conference, April 10-12, 1991, Auburn, AL.

"Implementation of a Family of GDSS Research Tools Using a Relational Model", with C. M. Conklin, H. E. Longenecker Jr. and S. C. Teo, 29th Annual ACM Southeast Regional Conference, April 10-12, 1991, Auburn, AL.

"Concept of Automation of Facilitation Function in a GDSS", with N. A. Reaves, C. M. Conklin and H. E. Longenecker Jr., 29th Annual ACM Southeast Regional Conference, April 10-12, 1991, Auburn, AL.

"The Inclusion of Data Frames Illustrating Data Flow in Control Charts for Novice Students", with H. E. Longenecker Jr., 28th Annual ACM Southeast Region Conference, April 1990, Greenville, SC.

"A Metric for the Effectiveness of Graphical Language Presentation in Terms of Competency", with J. W. Olson and H. E. Longenecker Jr, 28th Annual ACM Southeast Region Conference, April 1990, Greenville, SC.

"The Critical Role of Data for Novice Student Algorithm Development", with H. E. Longenecker Jr., 67th Annual Meeting of the Alabama Academy of Science, March 1990, Mobile, AL.

"An Application of Cognitive Modeling of Competency for Algorithm Development", with J. W. Olson and H. E. Longenecker Jr., 67th Annual Meeting of the Alabama Academy of Science, March 1990, Mobile, AL.

"Use of Expert System Technology to Model Probabilities of Disorders in Pedigree Analysis", with C. Garner and H. E. Longenecker Jr, 67 Annual Meeting of the Alabama Academy of Science, March 1990, Mobile, AL.

"Automatable Patterns in Development of Database Applications in Small Information Systems", with T. Ali and H. E. Longenecker Jr., 67th Annual Meeting of the Alabama Academy of Science, March 1990, Mobile, AL.

"On-Line Expansion of Data Dictionaries in a Graphical Algorithm Development Environment", with S. S. Lee and H. E. Longenecker Jr., 67th Annual Meeting of the Alabama Academy of Science, March 1990, Mobile, AL.

"Use of Window Data Frames Illustrating Data Flows in Control Structure Charts", with H. E. Longenecker Jr., ACM South Central Regional Conference, November 16-18, 1989, Tulsa, OK.

"Use of Finite State Machine Techniques to Construct and Validate a Complex Linked Data Structure in Support of a Macro Expansion Facility", with H. E. Longenecker Jr., S. S. Lee, K. D. Daigle and J. Pipkin, 27th Annual ACM Southeast Region Conference, April 6-7, 1989, Atlanta, GA.

"Implementation of a Meta Data Dictionary Using Reversible Editing Techniques Starting From a Screen Image", with S. T. Ali, H. E. Longenecker Jr, S. S. Lee and K. D. Daigle, 27th Annual ACM Southeast Region Conference, April 6-7, 1989, Atlanta, GA.

"Teaching of Algorithms Utilizing the SLAW Automated Algorithm to Pascal Code Generator Integrated into the Data and Code Visualization Environment of Dr. Pascal", with H. E. Longenecker Jr. and S. Atkins, 27th Annual ACM Southeast Region Conference, April 6-7, 1989, Atlanta, GA.

REVIEWED ABSTRACTS TO NATIONAL CSC CONFERENCE

"A Graphical Abstract Data Type Simulator", with T. B. Vaughn and H. E. Longenecker Jr., 1991 ACM 19th Annual Computer Science Conference, March 5-7, 1991, San Antonio, TX.

"Information Science: Managing the Software Lifecycle", with K. A. Gradle and R. J. Daigle, 1991 ACM 19th Annual Computer Science Conference, March 5-7, 1991, San Antonio, TX.

"Problem Analysis and Solution Development Mechanism for DATA: Data to Algorithm Translator Analysis", with B. K. Chan and H. E. Longenecker Jr., 1991 ACM 19th Annual Computer Science Conference, March 5-7, 1991, San Antonio, TX.

"An Investigation Into the Application of a Graphical, Rule-Based System Utilizing Reversible Data Structures as a Possible Model for Human Pedigree Systems", with C. Garner and H. E. Longenecker Jr., 1990 ACM 18th Annual Computer Science Conference, February 19-21, 1990, Washington, D. C.

"The Establishment and Application of a Metric for Graphical Design Language", with J. W. Olson and H. E. Longenecker Jr., 1990 ACM 18th Annual Computer Science Conference, February 19-21, 1990, Washington, D. C.

"Increased Productivity Using a Preprocessor for Dataflex Fourth Generation Database Language", with H. E. Longenecker Jr. and S. T. Ali, 1990 ACM 18th Annual Computer Science Conference, February 19-21, 1990, Washington, D. C.

"DATA: Data to Algorithm Translator Analysis", with H. E. Longenecker Jr., 1989 ACM 17th Annual Computer Science Conference, February 21-23, 1989, Louisville, KY.

"Definition of Menus as an Abstract Data Type", with S. T. Ali and H. E. Longenecker Jr, 1989 ACM 17th Annual Computer Science

Conference, February 21-23, 1989, Louisville, KY.

"An Expert Tutor in the SLAW Programming Environment", 1987 ACM 15th Annual Computer Science Conference, February 17-19, 1987, St. Louis, MO.

"SLAW: A Language Free Environment - Future Directions and Research", with S. M. Sheasby and V. J. Law, 1987 ACM 15th Annual Computer Science Conference, February 17-19, 1987, St. Louis, MO.

"Structured Programming Environments", with V. J. Law, 1985 ACM 13th Annual Computer Science Conference, March 12-14, 1985, New Orleans, LA.

National Collegiate Honors Council Activities (NCHC Conference)
Faculty Poster Session
"Battleship as Text: War and Memory at the U.S.S. Alabama Memorial Park", John Shelley-Tremblay, Steven Trout and Michael Doran, New Orleans, LA, November 2013.

Developing In Honors (DIH), Honors Pedagogy Panel, Boston, MA, November 2012.

Idea Exchange (IE) Discussion session, "12th Night Celebration: A Creative Learning and Fundraising Event", Mary Bishop and Michael Doran, Boston, MA, November 2012.

WORKSHOPS PRESENTED

"Nuts and Bolts of Honors and Selective Admission Process", Follow up parent session for Benard Harris/Exxon Mobile camp, April 2012, University of South Alabama, Mobile, AL

"Use of Cognitive-Based Model for Defining Computer and Information Science Courses", with David L. Feinstein, David D. Langan and Herbert E. Longenecker, ISECON'97, October 17, 1997, Orlando, FL.

"Active Learning in an IS/CS Shared First Year Sequence", with David L. Feinstein, David D. Langan and Herbert E. Longenecker, Decision Sciences Institute 1996 Annual Meeting, November 24-26, 1996, Orlando, Florida.

WORKSHOPS ATTENDED

Enhancing Linkages Between Universities and Small Businesses in EPSCOR Jurisdictions", Portland Maine, October 2007, A national NSF EPSCoR/USDA SBIR Conference

ABET – IDEAL- Institute for the Development of Excellence in Assessment Leadership, Baltimore, MD, August 2006.

NSF-Suppported Integrative Computing Education and Research (ICER): Preparing IT Graduates for 2010 and Beyond, Dallas, TX October 2005.

NSF Shaping the Future: Strategies for Revitalizing Undergraduate Education, Washington DC, July 11-13, 1996.

NSF CREATE National Evaluation Institute, Bethesda, MD, July 10-11, 1996.

NSF User-Friendly Project Evaluation Workshop, Orlando, FL, January 1996.

NSF-Supported C++/Object-Oriented Programming Workshop, Colgate University, Hamilton, NY, June 1995.

NSF-Supported Undergraduate Faculty Enhancement Projects Workshop and Short Courses, Providing and Integrating Educational Resources for Faculty Teaching Artificial Intelligence, limited attendance (20) workshop, Temple University, Philadelphia, PA, June 20-25, 1994. Follow-up session April 1995.

NSF Funding Workshop, Jackson, Mississippi, April 1993.

INTERNAL USA TECHNICAL REPORTS

"IS'93: The DPMA 2 Year Model Curriculum - A Natural Evolution from IS'90, A Strong Information Systems Foundation", with H. E. Longenecker Jr, D. L. Feinstein, L. Zenkert, R. Fournier and W. R. Reaugh, University of South Alabama internal report USA-CIS-92-5.

"Student Perception of Benefits of a Structured Computing I & II Lab Environment", with J. H. Pardue and H. E. Longenecker Jr, University of South Alabama internal report USA-CIS-92-4.

"Enhanced User Interface For The Slaw/DATA Programming Environment", with S. E. Scott, S. A. Bishop and H. E. Longenecker Jr, University of South Alabama internal report USA-CIS-92-3.

Courses taught at USA:

Honors Freshmen Seminar HON 101
Honors Sophomore Seminar HON 201
Creativity, Narrative and Problem Solving HON 490 (CSC 490/EH 490/PSY 490)
Global Cultures HON 490 (IS 490)
Mardi Gras Seminar HON 390 (HY 390)
Introduction to Computer Science: Algorithmic Problem Solving (CIS 140)
Programming Languages I (CIS 141/120)
Programming Languages II (CIS 142/121)
Advanced Data and File Structures (CIS 230)
Scientific Programming FORTRAN (CIS 271)
Software Engineering (CIS 310/CIS 265/231/CSC 331)
Programming Language Theory (CSC 333)
Real-Time Systems (CSC 412/512)
Analysis of Algorithms (CSC 422/432)
Artificial Intelligence Programming (CSC 474)
Artificial Intelligence (CSC 475/433/416/516)
Senior Project I & II (CIS 497/498)
AI Topics: Learning (CIS 590)
AI Topics: Intelligent Programming Environments (CIS 490/590)
AI Topics: Problem Solving (CIS 490/590)
AI Topics: Robotics (CIS 490/590)
Special Topics: C++/Object-Oriented Analysis & Design (CIS 490/590)
Special Topics: Programming Foundations I (CIS 490/590)
Accelerated Programming (CIS 501)
Program Development with Data and File Structures (ISC 508/503)
Programming Language Theory (CIS 505)
Graduate Research Methods I (CIS 518)
Graduate Research Methods II (CIS 519)
Performance Evaluation of Algorithms (CSC 522)
Computer Language Design (CSC 524)
Advanced Software Engineering (CSC 527)
Artificial Intelligence and Heuristic Programming (CSC 552/533)

MS Thesis Work Chaired

"A Study of Two Software Life Cycle Methodologies and Their Impact on Reuse", George W. Clark, Jr. 1999

"Haptic Technology to Assist the Development of a Cognitive Map", Kazuyoshi Onuka 2000

"Application of a Vision Based Sensory System in a Real Time Semi-Chaotic Environment", Michael D. Ward 2001

"An Adaptive Learning System: The Use of a Robotic Putter", Jason A . Alfano 2001

"An Examination of Different Coordination Techniques in a Semi-Adversarial System", Jerrolyn A. Hebert 2002

"Adaptive Behavior of Intelligent Agents in a Real Time Environment", Haukur Ragnarsson 2002

"A Predictive Real-Time Control Algorithm in a Chaotic Environment", Adam F. Adkinson 2003

"Using Smaller Populations to Increase Diversity in an Island Genetic Algorithm", William T. King, Jr. 2004

"Increased Efficiency in Robotic Navigation by Blending of Local and Global Vision", Espen Oeyan 2005 (School of Computing Thesis of the Year)

"ERP-Base Brain-Machine Interface for Controlling a Mobile Agent", Thomas Young, 2005

"A Co-evolutionary Approach to Robust Solution", Chad M. Leflore, 2005

"Training A Robotic Putter to Handle Putts Involving A Uniform Slope", Jeremy Tapper, 2006

"Distributed Coordination and Communications in a Multi Robotic Environment", Jeremy O Blair, Spring 2008

"Real-Time Intelligent Systems: Adaptation to Possible Faults in Robo-Billiards", Anthony Kurt Brown, Fall 2009

"Goal Oriented Navigation and Obstacle Avoidance in Semi-Dynamic Structured Environments Using Sensor Fusion", Jason D. Robertson, Fall 2010

"Intelligent Robotic Navigation for JagBot: A Campus Robotic Tour Guide", Charles V. Smith III, Fall 2011 (School of Computing Thesis of the Year, University of South Alabama Thesis of the Year)

UNDERGRADUATE RESEARCH FUNDING

Summer funding in range $2000-$3000 by University Council on Undergraduate Research (UCUR)
1999 Michael Ward – RoboCup Enhancements
2000 Jerrolyn Hebert – Hexapod Robot with Vision
2001 Ian Ritchie – Autonomous Robots using SH2 boards
2002 Christian Amelincx – Blending of Vision Systems
2003 Anthony Brown and Robert Steimle – RoboBilliards
2004 Martin Breland – Real-Time Systems Using SH2 & SH4 boards
2005 Jeremy Blair – Distributed Robotics Systems Using LEGO MindStorms
2006 Robert M. Rudnick – Introduction to Robotics and Real-Time Systems
2007 Will Fawcett – The Next Step in Robotics Using the LEGO NXT for Enhanced Intelligent behavior
2008 Robert M. Rudnick – Simulated Robotic Navigation for JagBot
2008 John Licato – Enhanced Speech Recognition for JagBot
2009 Aaron Munoz – Integration of Systems for JagBot
2010 James Culveyhouse – Enhanced Sensor Awareness for JagBot
2012 Patrick Poison and Ellis Hicks – RTS Slot track car racing
2013 Ellis Hicks - Using Lego Bots for Enhanced Artificial Intelligence and Real Time Systems
2013 Steven Sokol – JagPlane: Autonomous Flight and Data Collection

ACM Mid-Southeast Regional Conference Student Research Contest

1999 Michael Ward – RoboCup Enhancements 1st Place Undergraduate
1999 Scott Litrell and Tim Weller – Hexapod Walking Strategy 2nd Place Undergraduate
2000 Jerrolyn Hebert – Hexapod Can Can 2nd Place Undergraduate
2000 Jason Alfano – Robotic Adaptive Putter 2nd Place Graduate
2001 Robert West and Adam Adkinson – 3-D Simulation of RoboCup Environment 2nd Place Undergraduate
2001 Jerrolyn Hebert – Coordination and Communication of Robotic Soccerbots 3rd Place Graduate
2002 Christian Amelincx – Blending of Vision Systems in Robotic Environment 1st Place Undergraduate
2002 Adam Adkinson – Predictive Real-Time Control System 3rd Place Graduate
2003 Anthony Brown and Robert Steimle – RoboBilliards 3rd Place Undergraduate
2006 Jeremy Blair – Use of *leJos* to Extend the Communication Capabilities of the LEGO Mindstorms 1st Place MS Graduate
2008 John Licato – Robust Speech Synthesis and Understanding for a Robotic Tour Guide 1st Place Undergraduate
2008 Charles V. Smith III – A Fully Autonomous Tour Guide Robot 1st Place MS Graduate
2012 Patrick Poirson and Ellis Hicks –Using AI and RTS with Lego and leJos 2nd Place Undergraduate

K-12 OUTREACH
Bernard Harris/Exxon Mobile STEM Camp 2011 – present
Present sessions to middle school students on robotics and programming. Also, make presentation to parents at follow up visit in the spring. This is a 2 week residential camp for 48 competitively selected students. I also, helped write the initial proposal to be awarded this project.

SCREAM – Summer Camp of Robotics, Engineering and Math 2000-present
Present sessions to middle school students on robotics and programming. This is a week long 6 hour a day camp co-hosted with colleagues from the College of Engineering.

CFITS Summer Robotics Camp 2013
An expanded version of SCREAM focused on programming and robotics which targets 15 to 20 middle school students from one local school. Each school attends with two faculty who participate and will attempt to integrate concepts into the class and labs during the upcoming academic year.

ACADEMIC SERVICE at USA:
USA Goldwater Scholarship Selection Committee 2012-present
USA Undergraduate Student Research Council UCUR. 1999-present
Academic Affairs University Faculty grievance committee 1997-2001 and 2003-present
CIS representative to University Curriculum committee 1998-present
USA Academic Goals Subcommittee 2013
USA Children of Employee Scholarship Committee 2011
USA Conflict of Interest/Commitment Committee 2008-2011
USA Sr VP of Academic Affairs Search Committee 2008
USA Athletic Certification Oversight Committee 1999-2008
USA NCAA Certification Academic Integrity Committee 2001-2003, Chair of committee
University Student Center Activity Board faculty representative 1992-2003.
USA Honor's Program Council. 1999-present
Academic Affairs University grade grievance committee 1997-2001
USA Safety and Environment Committee 2001-2009
Directed the creation of university wide service courses in computer literacy 1989.
Faculty senate 1988-1991 and 2006-2009
USA Faculty Senate Fringe Benefit Committee, Chair 2006-2009
BEST (Boosting Engineering Sci & Technology) Hub Co-Director 2003-2006
Chair of CIS awards/scholarships 1990-1998.
CIS Scholarship/Assistantships 2000-present
School of CIS Dean Search Committee, 2006-2007
Chair of CIS faculty search committee 1996, 1997, 1998, 1999, 2008, 2011
Chair of CIS student employment committee 1997-2011
Chair of CIS faculty of the year committee 1997
CIS Promotion and Tenure committee 1995-present.
CIS representative to Graduate Council 1993-1997, 1998-2001, 2006-2012
CIS representative to University Research Roundtable 2001-2011
Faculty evaluation 1990-1993.
Proposal for major in Computer Engineering 1992-1993.
CIS faculty mentor for Dean of Students' Freshmen Mentor Program 1991-1998
Sports director, coach, player for ACM intramural sports programs 1988-??? (too tired to play anymore).
Advisor to USA Chess club/team 1989-present.
Advisor and coach to USA College Bowl team 1992-present (Alabama Champions 1996).

OTHER PROFESSIONAL ACTIVITIES
USA Writing Across the Curriculum Workshop Summer 1988

Reviewer for ACM South Central Regional Conference 1989.

Reprint reviewer for IEEE Press 1989.

Panelist Laboratories in CS1/CS2 28th Annual ACM Southeast Regional Conference 1990.

USA Teaching Effectiveness Workshops 1992-1993.

Program Committee 31st Annual ACM Southeast Regional Conference 1993.

Co-Chair Student Activities 31st Annual ACM Southeast Regional Conference 1993.

Reviewer for ACM Southeast Regional Conference 1993.

Textbook reviewer Addison-Wesley 1993.

Reviewer for ACM Southeast Regional Conference 1994.

IEEE Conference and Tutorials Board 1995-1996, Treasurer.

Co-Chair of Curriculum Track at ISECON'95.

Referee for ISECON'95, 96, 97, 98, 99, 00, 01.

Student paper reviewer for ISECON'95.

Referee for SIGCSE'96.

Programming Contest Director, ACM Southeast Regional, 1995.

Chair of Curriculum Track at ISECON'96.

USA Teaching Effectiveness Workshop Winter 1996 - Collaborative Learning.

Referee for IACIS'96.

Session chair for AIS'96.

Chair Panel Track for ISECON'97.

Referee for ACM Southeast Regional Conference 1997.

Referee for IACIS'97.

Chair Workshop Track for ISECON'98.

Program Chair for 37th Annual ACM Southeast Regional Conference 1999.

Referee for 37th Annual ACM Southeast Regional Conference 1999.

Program Co-Chair ISECON'99

Referee for SIGCSE 2000-present

Referee for FLAIRS 2003-present

AWARDS AND HONORS
Phi Eta Sigma - Freshmen honor society
Louisiana Engineering Society State Scholarship Finalist
Tulane University Graduate School Teaching Assistantship
Golden Key Honor Society
Outstanding Young Men of America 1986
Order of Saint Louis - Archdiocese of New Orleans 1987.
USA Student Government Association (SGA) nominee Professor/Faculty of the Year 1992, 1994 and 1996.
School of CIS Award for Faculty of the Year 1996.
USA SGA Professor/Faculty of the Year Winner 1996.
USA Student Organization Advisor of the Year 1996.
USA College Bowl Club selected Organization of the Year 1996 (Alabama state champions 1996).
School of CIS Award for Advisor of the Year 2004.
USA Alumni Association Advisor of the Year 2005

SOCIAL AND COMMUNITY ORGANIZATIONS:
Knights of Columbus 1984-present
       Alabama State Convention Staff 1995
       Alabama State-wide chairman of Parish roundtable 1993
       Knight of the Year 1992
       Newsletter editor 1991-1995
       Treasurer 1990-1994, 2002-2006
       Community Activity Director 1989-1996
       Retarded Citizens Fundraiser, chairman 1989-1996, 2010
       2nd Degree Team 1989-present
       Vocation Chairman 1987-1988
       Chancellor 1986-1987
       Recorder 1985-1986
Roma Club (Krewe of Caesar-New Orleans Mardi Gras) 1983-present
Mobile Doubloon Collectors Club
       President 1995-1998
       Treasurer 1998-2006
Crescent City Doubloon Traders
Brother Martin High School Century Club
Saint Angela Merici Parish Council 1984-1986
       Vice-President 1985-1986
Corpus Christi Parish School Board 2003-2006
       Secretary 2004-2005
       President 2005-2006
UMS Band Booster 2007-2012
SMU Dad's Club 2012 Lifetime Member