

HABIB P. MOHAMADIAN

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College of Engineering and Computer Science
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EDUCATION

BS: University of Texas at Austin, 1976
MS.: Louisiana State University, Baton Rouge, LA, 1978
Ph.D.: Louisiana State University, Baton Rouge, LA, 1982

PROFESSIONAL EXPERIENCE

7/02 – Pres. Dean, College of Engineering and Computer Science
5/98 – 6/02 Chairman of Mechanical Engineering Department
6/06 - Pres. Board Member, Advancing Minorities' Interest in Engineering (AMIE)
7/02 – Pres. Member, HBCU Council of Engineering Deans
4/03 - Pres. Member, Louisiana Council of Engineering Deans
8/92 - Pres. Professor, Mechanical Engineering, Southern University.
8/86 - 8/92 Associate Professor, Mechanical Engineering, Southern University.
8/98 - 09/01 Chair, SACS Principal Committee on Educational Support Services
4/96 - 12/02 Campus Director and Assessment Coordinator of Synthesis Coalition
4/83 - pres. Consultant for Becnel Engineering Company and other consulting firms.
8/79 - 8/86 Assistant Professor, Mechanical Engineering, Southern University.
8/80 - pres. Project Director and Principal Investigator on several grants.

AREAS OF RESEARCH

Experimental Solid Mechanics, Thermal Stresses; Mechanics of Composite Materials; Modeling, Control and Optimization with Diverse Applications on Electrical, Mechanical, Automotive and Biomedical Systems: Signal Processing and Image Processing; Assessment of engineering education outcomes

Refereed Book Chapter:

Z. Ye, H. Mohamadian, "Digital Image Processing for Spatial Object Recognition via Integration of Nonlinear Wavelet-Based Denoising and Clustering-Based Segmentation", Chapter 11, Advances in Spatial Data Handling and GIS, Lecture Notes in Geoinformation and Cartography Series, Springer-Verlag Publisher, pp. 145-155, DOI: 10.1007/978-3-642-25926-5_11, ISBN 978-3-642-25925-8, Berlin Heidelberg, June 7, 2012 (EI 20134216853239)

PUBLICATIONS

1. Z. Ye, H. Mohamadian, "Nonlinear Least Squares Regression Analysis and Diagnosis for Optical and Laser Measurement Systems", International Journal of Electrical, Electronics and Data Communication (IJEEDC), pp. 1-6, Volume 3, Issue 7, July 2015, Institute of Research and Journals Press
2. Z. Ye, H. Mohamadian "Intelligent Control Based Multilevel and Multiband Digital Image Thresholding Using Fuzzy Entropy and Particle Swarm Optimization", International Journal of Advance Computational Engineering and Networking (IJACEN), pp. 24-30, Volume 3, Issue 7, July 2015, Institute of Research and Journals Press

3. Z. Ye and H. Mohamadian, "Adaptive Clustering Based Dynamic Routing of Wireless Sensor Networks via Generalized Ant Colony Optimization", Elsevier Journal of Information Engineering Research Institute (IERI) Procedia, Vol. 10, pp. 2-10, ISSN: 2212-6678, DOI 10.1016/j.ieri.2014.09.063, Elsevier, 2014
4. Z. Ye and H. Mohamadian, "Simple Engine Exhaust Temperature Modeling and System Identification Based on Markov Chain Monte Carlo Approach", Journal of Applied Mechanics and Materials, pp. 224-228, Vol. 598, Trans Tech Publications, DOI 10.4028/www.scientific.net/AMM.598.224, Switzerland, 2014 (EI 15074751)
5. Z. Ye and H. Mohamadian, "System Identification of Simplified Engine Exhaust Temperature Model Based on Markov Chain Monte Carlo Approach", Journal of Applied Mechanics and Materials, Vol. 598, pp. 224-228, DOI 10.4028/www.scientific.net/AMM.598.224, Trans Tech Publications, Switzerland, 2014
6. Z. Ye and H. Mohamadian, "Comparative Study of Path Loss Models for Wireless Cellular Networks and Optimal Power Control with Respect to SINR Balancing", Journal of Information Systems Technology and Planning (JISTP), pp. 1-13, Volume 6, Issue 16, ISSN 1945-5240, 2013, International Consortium Press
7. Z. Ye and H. Mohamadian, "Creativity Stimulation for Engineering Education Enhancement with Quality Assurance Through Integration of ABET Technology Accreditation and LiveText Assessment Accreditation", Journal of Applied Global Research (JAGR), ISSN1940-1833, pp.55-64, Volume 6, Issue 16, 2013, International Consortium Press
8. Z. Ye, H. Mohamadian, "Remote Sensing Feature Detection and Geoinformation Retrieval Via Multiscale 2D Gabor Wavelet Transform", pp.601-611, Proceedings of 16th International Academic Conference, Amsterdam, May 12 - 15, 2015
9. Z. Ye, H. Mohamadian, "Intelligent Control Based Multilevel and Multiband Digital Image Thresholding Using Fuzzy Entropy and Particle Swarm Optimization", Proceedings of the 2015 International Conference on Technological Advances in Electrical, Electronics and Computer Engineering (ICTAEECE 2015), May 8-10, 2015, Barcelona, Spain
10. Z. Ye, H. Mohamadian, "Nonlinear Least Squares Regression Analysis and Diagnosis for Optical and Laser Measurement Systems", Proceedings of the 2015 International Conference on Engineering and Natural Science (ICENS 2015), May 8-10, 2015, Barcelona, Spain
11. Z. Ye, H. Mohamadian, H. Yin, "Pedagogical Advancement of Postgraduate Education by Incorporating Class Projects and Accreditation Management", Proceedings of 2015 ASEE Gulf Southwest Annual Conference, March 25-27, 2015, San Antonio, Texas
12. Z. Ye, H. Mohamadian, H. Yin and Y. Ye, "Practical Contour Tracing Via Integration of Adaptive Contrast Stretching and Gabor Wavelet Transform", Proceedings of 2014 Second International Conference on Advances in Computing, Electronics and Communication (ACEC2014), pp. 93-97, ISBN: 978-1-63248-029-3 DOI 10.15224/ 978-1-63248-029-3-82, Oct. 25-26, 2014, Zurich, Switzerland
13. Z. Ye and H. Mohamadian, "Adaptive Clustering Based Dynamic Routing of Wireless Sensor Networks via Generalized Ant Colony Optimization", Proceedings of 2014 International Conference on Future Information Engineering (FIE 2014), July 7-8, 2014, Beijing, China
14. Z. Ye and H. Mohamadian, "Multiple Ant Colony Optimization for Single Depot Multiple Trip Vehicle Routing Problems", Proceedings of 2014 Ershov Informatics Conference (PSI 2014), pp. 43-54, June 24 - 27, 2014, St. Petersburg, Russia
15. Z. Ye and H. Mohamadian, "System Identification of Simplified Engine Exhaust Temperature Model Based on Markov Chain Monte Carlo Approach", Proceedings of 2014

- International Conference on (ICMSC2014) Mechanics, Simulation and Control, June 21-22, Moscow, Russia.
16. Z. Ye and H. Mohamadian, "Enhancing Decision Support for Pattern Classification via Fuzzy Entropy Based Fuzzy C-Means Clustering", Proceedings of the 2013 52nd IEEE Conference on Decision and Control, pp. 7432-7436, December 10-13, 2013, Florence, Italy (EI 20142517845860 & EI 14157522)
 17. Z. Ye and H. Mohamadian, "Model Predictive Control on Wall Wetting Effect Using Markov Chain Monte Carlo", Proceedings of the 2013 IEEE Latin-American Conference on Communications (LATINCOM 2013), November 24-26, 2013, Santiago, Chile (EI 20141617591738 & EI 14148312)
 18. Z. Ye and H. Mohamadian, "Multivariate Optimization for Spectral Analysis Via Markov Chain Monte Carlo Approach", Proceedings of the 2013 IEEE Latin-American Conference on Communications (LATINCOM 2013), November 24-26, 2013, Santiago, Chile
 19. Z. Ye and H. Mohamadian, "Multilevel Wavelet Transform Based Sparsity Reduction for Compressive Sensing", Proceedings of the 2013 Workshop on Artificial Intelligence Techniques for Ambient Intelligence, pp. 1-8, July 16-17, Athens, Greece
 20. Z. Ye and H. Mohamadian, "Analysis of Multistage Sampling Rate Conversion for Potential Optimal Factorization", Proceedings of the 2013 IEEE 10th International Conference on Sampling Theory and Applications, pp. 244-247, July 1-5, 2013, Bremen, Germany
 21. Z. Ye and H. Mohamadian, "Exploiting Intelligent Decision Supports for Model-Driven Biomedical System Analysis", Proceedings of the 2013 Iberian Conference on Information Systems and Technologies, pp. 818 – 823, June 19-22, 2013, Lisbon, Portugal (EI 20134817022669 & EI 13848791) 16, ISSN 1940-1833, 2013
 22. Zhengmao Ye, H. Mohamadian, "Comparative Study of Path Loss Models for Wireless Cellular Networks and Optimal Power Control with Respect to SINR Balancing", Journal of Information Systems Technology & Planning (JISTP), pp. 1-13, Volume 6, Issue 16, ISSN 1945-5240, 2013
 23. Zhengmao Ye, H. Mohamadian and Y. Ye, "Information Loss Determination on Digital Image Compression and Reconstruction Using Qualitative and Quantitative Analysis", Journal of Multimedia, Academy Publisher, Vol. 6, No. 6, pp. 486-493, December, 2011 (EI 20115114629720)
 24. Zhengmao Ye, H. Mohamadian, Yongmao Ye, "3D Space Display of Evolutionary Algorithms Based Non-Convex Optimization", 3DAS2010 International Conference on 3D Systems and Applications, Tokyo, Japan, May 19-21, 2010.
 25. Zhengmao Ye, H. Mohamadian, "Integration of Wavelet Fusion and Adaptive Contrast Stretching for Object Recognition with Quantitative Information Assessment", International Journal on Graphics, Vision and Image Processing, ISSN 1687-398X, Vol (8), Issue (V), pp. 33-42, Jan 2009
 26. Zhengmao Ye, H. Cao, S. Iyengar and H. Mohamadian, "Medical and Biometric Identification for Pattern Recognition and Data Fusion with Quantitative Measuring", Chapter 6, Systems Engineering Approach to Medical Automation, Artech House Publishers, 2008
 27. Zhijun Li, Zhengmao Ye, H. Mohamadian, "An Electronic Control System for Exhaust Emissions and Fuel Economy of Quasi-Homogeneous Lean Burn Gasoline Engines", 2007 American Control Conference New York, NY USA, July 11-13, 2007
 28. Z. Ye, H. Mohamadian, Y. Ye, "Quantitative Representation for Trimulus Contrast Enhancement and Grayscale Watershed Segmentation", Proceedings of the 2008 World Congress on Intelligent Control and Automation (WCICA 08), June 25-27, 2008, Chongqing, China

29. Z. Ye, H. Mohamadian, L. Li, Q. Meng, Z. Li, "Theoretical and Practical Mechanisms on Lowering Exhaust Emission Levels for Diverse Types of Spark Ignition Engines", Proceedings of 2008 SAE International Powertrains, Fuels and Lubricants Congress, 2008-01-1545, June 23-25, 2008, Shanghai, China
30. Z. Ye, H. Mohamadian, Y. Ye, "Gray Level Image Processing using Contrast Enhancement and Watershed Segmentation with Quantitative Evaluation", Proceedings of 2008 IEEE International Conference on Content-Based Multimedia Indexing (CBMI 2008), June 18-20, 2008, London, UK
31. Z. Ye, H. Mohamadian, Y. Ye, "Independent Component Analysis for Spatial Object Recognition with Applications of Information Theory Synthesis", Proceedings of the IEEE International Joint Conference on Neural Networks (IJCNN 2008) and the 2008 IEEE World Congress on Computational Intelligence (WCCI 2008), Hong Kong, June 1-6, 2008
32. Z. Ye, H. Mohamadian, Y. Ye, "Sensing Data Discrete Wavelet Fusion for Pattern Recognition with Qualitative and Quantitative Measuring", Proceedings of the 2008 IEEE International Joint Conference on Neural Networks (IJCNN 2008) and the 2008 IEEE World Congress on Computational Intelligence (WCCI 2008), Hong Kong, June 1-6, 2008
33. Z. Ye, H. Mohamadian, "Comparisons of Two Feedback Servo Systems for Control Engineering Education: A Case Study on Student Performance of Speed Control Systems", Proceedings of the 2008 ASEE Gulf Southwest Annual Conference, #6-2, March 26-28, 2008, Albuquerque, New Mexico
34. Z. Ye, H. Mohamadian, H. Majleseini, "Adaptive Enhancement of Gray Level and True Color Images with Quantitative Measurement Using Entropy and Mutual Information", Proceedings of the 40th Southeastern Symposium on System Theory (SSST 2008), March 16-18, 2008, New Orleans, LA, USA (EI 9940416)
35. Z. Ye, Z. Li and H. Mohamadian, "Engine Performance Improvement on Fuel Economy and Exhaust Emissions Using Lean Burn Control Technologies", WSEAS Transactions on Environment and Development, 2008, Volume 3, Issue 4, pp. 65-71, April 2007, ISSN: 1790-5079
36. Z. Ye, H. Mohamadian, S. Pang and S. Iyengar, "Contrast Enhancement and Cluster Segmentation of Gray Level Images with Quantitative Information Evaluation", WSEAS Transactions on Information Science and Applications, Volume 5, Issue 2, pp. 181-188, February, 2008, ISSN: 1709-0832
37. Z. Ye, H. Mohamadian and Y. Ye, "Practical Approaches on Enhancement and Segmentation of Trimulus Color Image with Information Theory Based Quantitative Measuring", WSEAS Transactions on Signal Processing, Volume 4, Issue 1, pp. 12-20, January, 2008, ISSN: 1790-5052
38. Z. Ye, Z. Li and H. Mohamadian, "Lean Burn Engine Control for Fuel Economy and Exhaust Aftertreatment", #571-300, Proceedings of the 2007 WSEAS International Conference on Energy Planning, Energy Saving, Environmental Education, Arcachon, France, October 14-16, 2007
39. Z. Ye, H. Mohamadian, S. Pang and S. Iyengar, "Image Contrast Enhancement and Quantitative Measuring of Information Flow", #571-298, Proceedings of the 2007 WSEAS International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering, Arcachon, France, October 13-15, 2007
40. Z. Ye, H. Mohamadian and Y. Ye, "Digital Trimulus Color Image Enhancing and Quantitative Information Measuring", #571-299, Proceedings of the 2007 WSEAS International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering, Arcachon, France, October 13-15, 2007

41. Z. Ye, H. Mohamadian and Y. Ye, "Discrete Entropy and Relative Entropy Study on Nonlinear Clustering of Underwater and Arial Images", Proceedings of the 2007 IEEE International Conference on Control Applications (CCA 2007), pp. 318-323, Oct. 1-3, 2007, Singapore (EI 082011252389 & EI 9797049)
42. Z. Ye, H. Mohamadian and Y. Ye, "Information Measures for Biometric Identification via 2D Discrete Wavelet Transform", Proceedings of the 2007 IEEE International Conference on Automation Science and Engineering (CASE 2007), pp. 835-840, Sept. 22-25, 2007, Scottsdale, Arizona, USA (EI 9796683)
43. Z. Ye, Q. Meng, H. P. Mohamadian, J. T. Wang, L. Chen, and L. Zhu, "Investigation of Deposit Formation Mechanisms for Engine In-Cylinder Combustion and Exhaust Systems Using Quantitative Analysis and Sustainability Study", International Journal of Thermophysics, Springer, Vol. 28, No. 3, pp. 1056-1066, August, 2007 (DOI 10.1007/s10765-007-0228-5) (EI 073810821037)
44. Z. Li, Z. Ye, H. Mohamadian, Y. Zhang, X. Sun, G. Zhang, "NOx Emission Aftertreatment Study on Lean Burn Gasoline Engine Using Absorber Reduction Catalyst", SAE Technical Paper Series 2007-01-1932, 2007 JSAE/SAE International Fuels and Lubricants Meeting, July 23-26, 2007, Kyoto, Japan
45. Z. Li, Z. Ye, H. Mohamadian, X. Wang, Y. Zhang, G. Zhang, "An Electronic Control System for Exhaust Emissions and Fuel Economy of Quasi-Homogenous Lean Burn Gasoline Engines", Proceedings of the 2007 IEEE American Control Conference (ACC 2007), pp. 2973-78, July 11-13, 2007, New York City, USA
46. Z. Ye, Y. Ye and H. Mohamadian, "Biometric Identification via PCA and ICA Based Pattern Recognition", Proceedings of the 2007 IEEE International Conference on Control and Automation (ICCA 2007), pp. 1600-1604, May 30-June 1, 2007, Guangzhou, China (EI 9807853)
47. Z. Ye, Z. Li, H. Mohamadian, "Research on NOx Emission Aftertreatment of Lean Burn Gasoline Engine Using Absorber Reduction Catalyst", Proceedings of the 2007 ASME/IEEE Joint Rail Conference and Internal Combustion Engine Spring Technical Conference, March 13-16, 2007, Pueblo, Colorado, USA (EI 073410774556)
48. Zhengmao Ye, Q. Meng, H. Mohamadian, J.T. Wang, L. Chen, L. Zhu, "Quantitative Analysis of Engine Deposit Formation and Sustainability Study", International Journal of Thermophysics, Proceedings of 16th Symposium on Thermophysical Properties, July 2006, Boulder, USA
49. Zhengmao Ye, H. Mohamadian, J.T. Wang, "Computerized Examination of Cylinder Pressure Rise and Heat Release Analysis for Rapid Compression Machine", Proceedings of the 3rd BSME-ASME International Conference on Thermal Engineering 20-22 December, 2006, Dhaka, Bangladesh
50. Z. Ye, H. Mohamadian and Y. Ye, "Process Control Potentials on Gasification and Combined Cycle Integration", Proceedings of the 2006 IEEE International Conference on Computational Cybernetics (ICCC 2006), Aug 20-22, 2006, Tallinn, Estonia
51. Z. Ye, H. Mohamadian and Y. Ye, "Integration of IGCC Plants and Reachable Multi-Objective Thermo Economic Optimization", Proceedings of the 2006 IEEE International Conference on Computational Cybernetics (ICCC 2006), Aug 20-22, 2006, Tallinn, Estonia
52. Z. Ye, Y. Ye and H. Mohamadian, "Design of Fuzzy Stochastic Nearly Optimal Control", Proceedings of the 2006 IEEE World Congress on Computational Intelligence (WCCI 2006) - IEEE International Conference on Fuzzy Systems (FUZZ 2006), pp. 8458-8462, July 16-21, 2006, Vancouver, Canada
53. Z. Ye, P. Bhattacharya, H. Mohamadian, H. Majleseini and Y. Ye, "Equational Dynamic Modeling and Adaptive Control of UAV", Proceedings of the 2006 IEEE International

- Conference on System of Systems Engineering (SOSE 2006), pp. 339-343, April 24-26, 2006, Los Angeles, USA
54. Z. Ye, Y. Ye, H. Mohamadian, P. Bhattacharya and K. Kang, "Fuzzy Filtering and Fuzzy K-Means Clustering on Biomedical Sample Characterization", Proceedings of the 2005 IEEE International Conference on Control Applications (CCA 2005), pp. 90-95, Aug. 28-31, 2005, Toronto, Canada (EI 8671440)
 55. Z. Ye, L. Li and H. Mohamadian, "Multi-Variable Optimization on Engine Variable Intake Valve Closing Timing for Engine Overall Performance", Proceedings of the 2005 ASME Internal Combustion Engine Division Spring Technical Conference (ICES05), pp. 75-81, April 5-7, 2005, Chicago, USA (EI 05479488979)
 56. H. Mohamadian: "Development of Fatigue Damage Mechanics for Application to the Design of Damage-Tolerant Composite Components," J. Composite Science and Technology, Vol. 22, No. 6, 1997.
 57. H. Mohamadian: "Curriculum Design and Academic Assessment: The Engineering Thought Process," Proceedings of the Engineering Pipeline National Conference, PP. 23-26, Houston Texas, Sept., 1997.
 58. H. Mohamadian: "Strain-Stress Analysis of Various E-glass Composite Laminate Joints under Flexure Loading," Polymer Composites, Vol. 17, No. 2, 1996.
 59. H. Mohamadian: "Graphite Laminate Tearout Due to Hole Drilling," Composite Material Technology, ASME PD -Vol. 62, 1995.
 60. R. Mirshams, Z. Li, H. Mohamadian: "High Temperature Tensile Properties and Fracture Characteristics in Two Phase Gamma TiAl and TiB₂ Particle Reinforced TiAl Alloys," Scripta Metallurgica et Materialia, Dec. 1995.
 61. R. Mirshams, H. Mohamadian, and K. Crosby: "On the Effects of Strain Path on Work Hardening Behavior of Ultra Low Carbon Sheet Steels," Journal of Materials Engineering and Performance, Vol. 3(1), p. 64, 1994

RESEARCH, EDUCATIONAL, AND EQUIPMENT AWARDS AND GRANTS

Louisiana Board of Regents, Workforce and Innovation for a Stronger Economy (WISE) Initiative: Enhancement of College of Engineering & Computer Science Workforce Training Facilities, H. Mohamadian, P. Carriere, and E. Khosravi, \$160,000.

Louisiana Board of Regents, "The LONI Institute: Advancing Biology, Materials, and Computational Sciences for Research, Education, and Economic Development", H. Mohamadian, M. Stubblefield, D. Jerro, and E. Khosravi, \$1,000,000.

National Academy of Sciences, "Advancing Scholarship in Engineering Education", H. Mohamadian, \$12,000.

Halliburton Corp., "Engineering Summer Institute", H. Mohamadian and J. Peters, \$50,000

The Boeing Company. "Engineering MSER CAD Modeling Tools", H. Mohamadian, E. Blevins, and A. Jana, \$100,000

IT Initiative, "High Performance Computing and Networking", H. Mohamadian, \$385,000.

SUBR-Title III, "Assessment of Engineering Education Outcomes", H. Mohamadian, \$125,000

SUBR Graduate School, " Enhancement of Graduate Labs", H. Mohamadian \$169,400

NRERL/DOE, "Fatigue Test and Analysis of E-glass Composite Materials," Ira Graham, H. Mohamadian, C. Wang-\$325,000

PNL, "A Measurement of Residual Stresses in Zircaloy Tubing," R. Mirshams, H. Mohamadian-\$64,000

Olin Corporation, "Student Participation in Research Activities," H. Mohamadian-\$7,500

NSF, "Effects of Prestrain State on Uniaxial Tensile Properties of Sheet Steels," R. Mirshams, H. Mohamadian- \$100,000

Louisiana Board of Regents, "Engineering Research and Education Through Acquisition of Material Testing Equipment," S. Ibekwe, R. Mirshams, H. Mohamadian, and S. Pang-\$39,000

General Dynamics, "Constant Amplitude Fatigue Crack Growth Rate Testing of RX218-T851 Plates," H. Mohamadian-\$245,000

Synthesis Coalition/NSF, "Self-Paced Laboratory Learning Stations," H. Mohamadian-\$210,000

TACOM, "Determination of High Temperature Mechanical Properties and Coefficient of Thermal Expansion of Advanced Alloys," R. Mirshams, H. Mohamadian, S. Pang, C. Yang, and K. Crosby- \$185,895

NASA, "Fractographic Studies and Analyses in Database Documentation and Development." R. Diwan, H. Mohamadian- \$200,000

Synthesis Coalition/NSF, "Assessment of Engineering Education Outcomes," H. Mohamadian-\$125,000

The Boeing Company, " Senior Design Projects," H. Mohamadian, S. Ibekwe- \$195,000

Title III, " Assessment of Student Learning Outcomes," H. Mohamadian-\$120,000

Louisiana Board of Regents, "Development of SU/LSU Joint Research and Educational Program in High Performance Networking," S. Iyengar, Ernest Walker, I. Dabipi, S. Pang, H. Mohamadian-\$312,116.

Louisiana Board of Regents, "Enhancement of the LSU/SU Joint Engineering Research and Educational Program in Composite Materials," S. Pang, H. Mohamadian-\$500,000.

Various Industry, "Adopt-A-Lab Initiative", H. Mohamadian-\$275,000.

RECOGNITIONS AND AWARDS

Selected as Outstanding Teach of Year in the Department of Mechanical Engineering-1982, 83, 86, 87, and 89.

Awarded the Outstanding Board Member of Advancing Minorities' Interest in Engineering (AMIE) Organization.

PROFESSIONAL AFFILIATIONS/ACTIVITIES

2010-2011 American Society of Mechanical Engineers (ASME) Fellow
Member of: American Wind Energy Association (AWEA), American Engineering Education (ASEE), and Society for Mining, Metallurgy, and Exploration (SME)
Elected Member of Pi Tau Sigma Honorary Engineering society.
Member of Synthesis Coalition Board of Directors
Advisor, Boeing Education Relation Division
Review papers for ASEE/GSW
Chairman Sessions ASEE/GSW
Review Textbooks in mechanical engineering, McGraw-Hill
Co-Chairman, ASEE/GSW, 1994, 2006
Review papers for AWEA
Panelist for NSF

WORKSHOP PARTICIPATION

1. 2015 ABET Summer Commission Meeting and Workshop, Baltimore, MD, July 2015
2. "Engineering Deans Council Public Policy Colloquium (PPC)-*The National Academies*", Washington, DC, February, 2012
3. " ASEE Global Colloquium on Engineering Education", Istanbul, Turkey, October, 2011
4. " Annual ASEE Workshop on K-12 Engineering Education", Salt Lake City, Utah, June 2009
5. "ASEE Engineering Research Council Summit, Workshop & Forum" , Arlington, VA, March 2007
6. "ABET Reviewers Training", Dallas, Texas, June 2005
7. "E-Business Informational and Introduction to SAP", Baton Rouge, La, May 2004
8. "3-D System Stereo-Lithography" Baton Rouge, La, Jan 2003
9. "EC 2000 ABET Assessment" Terra Haute, Indiana, April 2003
10. " ABET Assessment" Houston Texas, June, 2002
11. "Failure Analysis of Composite Materials," ASME, Houston, TX, 2002
12. "Non-Destructive Examination - Applying ASME Code, " New York, NY, 2001
13. " Finite Element Analysis Using I-DEAS," SDRC, Milford, Ohio, 2001
14. " Mechatronics," UC Berkeley, California, 2000
15. "Integrating Design into Engineering Curriculum," Southern Methodist University, Dallas, TX, 2000
16. "Advanced Materials Application" ASME, Chicago, 2000.

WORKSHOP CONDUCTED

1. Assessment of Engineering Education Outcomes-Southern University, September 2012
2. Curriculum Mapping of Engineering Programs, Southern University, May 2010
3. Capstone Engineering Design Assessment Workshop-Southern University, October 2007.
4. Laboratory Preparation and Assessment Workshop- Southern University, March 2007.

FUNDRAISING INITIATIVES

Adopt-A-Lab Initiative (AALI) - The AALAI solicits sponsorships from industry to help support one or more instructional enhancement efforts. The sponsored contributions may be in-cash or in-kind, preferably in multiple units of \$5,000 per year, per adopted activity. Any laboratory that is fully adopted may be named after sponsoring organization, as long as the sponsorship

remains current. Currently 12 of 35 engineering laboratories are adopted by our industrial partners.

Dean's Challenge Initiative-Dean of College of Engineering has challenged the college's alumni and friends to join him in investing in knowledge, and he is willing to make it worth your while. From August 15, 2006 until July 30, 2010, the Dean will match gifts to the College of Engineering at SUBR from faculty, staff, students and alumni of the college. So far about \$50,000 has been contributed.

Scholarship Endowment Funds Initiative- the College of Engineering Endowment Fund was created in 2006 to aid underrepresented students who are seeking a career in engineering. The scholarship is dedicated to the alumni of the college who have been great supporters of student scholarships. So far, one endowed scholarship has been fully established and the first payment installment has been received for three more.

Adopt-A-Professor Initiative- the Louisiana Board of Regents supports professorship endowment programs within the State of Louisiana, on a 40%-60% share basis for a total of \$100,000. Endowment funds are perpetual and the monies received are to be invested and managed by the Southern University System Foundation. Income from specific endowment fund is used to supplement the salary of a professor of exceptional distinction in the College. In addition, an endowment provides a very special opportunity to recognize an individual or organization by naming the endowment in their honor. The college has secured three endowed professorships.

Capstone Design Projects Initiative- In order to involve our industry partners, support is requested to educate our prospective engineering and technology graduates in working hand-in-hand with industrial sponsors on a real-life project. The support requested is in the form of supplying the college with lists of industry-related projects/problems from which our students can choose from and consequently find a solution for. The budget to cover all expenses for up to three projects is \$15,000. The college sponsors up to \$10,000 of the cost and the sponsoring company will pay the remaining \$5,000. There are five sponsoring companies for this initiative.

COMMUNITY ACTIVITIES

Expert Witness on various cases

Advisory Board Member- Baton Rouge High School and Greenville Elementary School

Member- Clean Power and Energy Research Consortium

Advisory Council Member- Scotlandville Magnet High School

Judge, Louisiana Science & Engineering Fairs since 1995

Member, International Education Advisory Board, Southern University, Baton Rouge