

CURRICULUM VITA

Adel Lotfy Ali

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Education:

- Ph.D., Computer Science, Department of Computer Science and Electrical Engineering, Lehigh University, Pennsylvania
Dissertation: "Intelligent Grasp Planning for Robot Programming"
- M.S., Computer Science, Department of Computer Science and Electrical Engineering, Lehigh University, Pennsylvania
Thesis: "Modifying IBM Solid Modeling Interactive Graphics (GDP/GRIN) to Perform Line Creation in a Working plane"
- B.Sc., Mechanical and Industrial Engineering, Cairo University

Honors:

- The first Professor Emeritus of Computer Science, The University of Southern Mississippi (2009)

Experience:

- Head and Professor, Department of Math, Science, and Technology, University of Minnesota , Crookston (UMC) (Jan 2009 – Current)
- Computing Consultant, Dept. of Homeland Security Southeast Region Research Initiative Projects (Jan 2009 – Current)
- Founding Director, Professor, and Graduate Coordinator, School of Computing, The University of Southern Mississippi (USM), (2005-2008)
- Founding Director, Center for Computing Consultancies, USM
- Chairperson, Professor, and Graduate Coordinator, Department of Computer Science and Statistics , USM (2000-2005)
- Professor, and Graduate Coordinator, Department of Computer Science and Statistics, USM (1997-2000)
- Associate Professor, Department of Computer Science, USM (1992-1997)
- Assistant Professor, Department of Computer Science, USM (1987-1992)
- Research Engineer, Institute for Robotics, Lehigh University (1983-1986)
- Teaching Assistant and Instructor, Department of Computer Science and Electrical Engineering, Lehigh University (1981-1983)
- Director, Engineering Maintenance , Ministry of Electricity and Water, Kuwait (1977-1981)
- Production Planning Engineer, Nasr Company for Pipes and Fittings, Cairo, Egypt (1973-1977)

Selected Interdisciplinary and Multidisciplinary Initiatives:

- Currently in the process of establishing a BS in Clinical Lab Science in partnership with Western Alliance for Clinical Lab Science Consortium (UMC)
- Forming the University Partnership for Health Informatics (UP-HI) Consortium (UMN). The Department of Math Science and Technology (Crookston Campus), Institute of Health Informatics, School of Nursing, School of Public Health, Department of Computer Science (Twin Cities Campus) collectively teaming up to represent UMN in UP-HI
- Establishing the Informatics Lab (UMC)
- Starting the BS in Software Engineering (UMC)
- Establishing the BS program in Environmental Sciences (UMC)
- Establishing the Center for Computing Consultancies (USM)
- Founding the School of Computing (USM)
- Ph.D. degree program in Computational Sciences (USM)
- Establishing the High Performance Visualization Center at Stennis Space center (USM)
- Establishing the High Performance Modeling, Simulation, and Visualization Lab at USM Hattiesburg Campus
- Design and implementation of the EDS Planned MS degree program (USM)

Current Research Interest:

Health Informatics, Simulation, Computer Graphics, Visualization, Robotics, and Computational Intelligence

Patents:

- 20080317375 Apparatus and methods for image restoration 12-25-2008

Inventors: Xiaoli Huan Beddhu Murali Adel L. Ali

Agents: HOWREY LLP-HN

Assignees: University of Southern Mississippi

Origin: FALLS CHURCH, VA US

IPC8 Class: AG06K940FI

USPC Class: 382274

- 3-D Visual Decision Support System for Sports Security (Pending 2009)

Externally Funded Grants (+\$8M):

Project Title	Funding Agency	Total Multi-year Budget	Funding Date and Role
Establishment of Informatics Lab at The University of Minnesota, Crookston	American Recovery and Reinvestment Act of 2009 (ARRA)	\$150K	July 2009 PI
Enhancing the Effectiveness of Local and Regional Communities in Planning and Training for Improvised Explosive Device Threats and Attacks on Sport Venues	Dept. of Homeland Security US DoE ORNL	\$750K	January 2009 Co-PI / Consultant
A Novel Bayesian Learning and Optimization Approach to Reconstruction of Gene Regulatory Networks.	US Army ERDC	\$273K	January 2008 Co-PI
A Simulation Environment for Planning, Training, and Assessment of Emergency Response and Evacuation Capabilities at High Consequence Sports Events	Dept. of Homeland Security US DoE ORNL	\$955K \$500K	January 2007 and July 2008 Co-PI
Hyper Computing Infrastructure: A Large Scale Algorithm Acceleration in Reconfigurable Architecture (FPGAs)	NASA	\$87K	October 2006 Co-PI
Acquisition of High Performance Immersive Visualization Equipment	US Army Office of Research	\$185K	May 2002 PI
Rendering and 3-D Visualization of Cityscape Using Combination of Satellite Imagery, Aerial Photography and GIS data	NASA	\$4K	Feb. 2002 PI
Volumetric Loss Calculations Based on Remote Sensing of Change Detection in Vegetation	NASA	\$10K	Feb. 2002 PI
Collection, 3D modeling and 3D rendering of multiple data sets for visualization of cityscapes	NASA	\$82K	Jan. 2002 PI
Design and Development of Satellite Image Processing and Analysis System	NASA	\$88	Oct. 2001 PI
Quasirandom Numbers for Parallel Distributed Applications	US Army Office of Research	\$325K	March 2001 Co-PI

Collection and 3D Rendering of Combined LIDAR and High Resolution Color Digital Imagery at Columbus AFB	NASA	\$246K \$ 75K	June 2001 Jan. 2002 PI
High Performance Visualization Center Initiative	CNMOC US NAVY	\$2.97M	1999-2002 PI
High Performance Networked Regional Partnership (HPNRP)	CNMOC US NAVY	\$442K	Sept. 1999 PI
NASA Space Grant Consortium	NASA	\$420K	Feb. 1999 – May 2008 PI
EDS Masters Program	EDS	\$564K	March 1997 PI
A Training Program for Strengthening Information Management of MOFA, SUDAN	United Nations	\$47K	May 92 PI

Grants Pending or Under Review (\$6.6M)

University Partnership for Health Informatics (UP-HI)	Office of National Coordinator for Health IT	\$6M	To be decided on March 18, 2010 Co-PI
A Simulation Environment for Planning, Training, and Assessment of Emergency Response and Evacuation Capabilities at High Consequence Sport Events: Phase III SportEvac: First Responder Training System	Dept. of Homeland Security US DoE ORNL	\$600K	Pending Expected funding on April 2010 Consultant

Publications:

- [131] “SportEvac: Visual Decision Support System (VDSS) for Stadium Security and Safety Operations,” Adel L. Ali and Lou Marciani, 16th IEMS Conference, Cocoa Beach, FL, March 2010
- [130] “A Novel Approach for Computer Assisted Table Top Exercises for Stadium Security and Safety Operations,” Adel L. Ali, Lou Marciani, and Jim McGee, 16th IEMS Conference, Cocoa Beach, FL, March 2010
- [129] “An Enhanced Image Restoration Algorithm,” Xiaoli Huan, Beddhu Murali and Adel L. Ali, IEMS Conference, Cocoa Beach, FL, March 2010

- [128] "Hybrid Approach for Agent-based Egress Simulation: Mitigating the Dynamic Re-routing Problem," Adel Ali and Bikramjit Banerjee, Proceedings of 15th IEMS conference, Cocoa Beach, FL, March 9-11 2009.
- [127] "Spot E Vac: A Simulation Environment for Planning, Training and Assessment of Emergency Response and Evacuation Capabilities at High Consequence Sports Events," Adel L. Ali, and Lou Marciani, Proceedings of 15th IEMS conference, Cocoa Beach, FL, March 9-11 2009.
- [126] " AdSeD: An Adaptive Strategy for Secure local Disk System." Mais Nijim and Adel Ali, 2008 IEEE 11th International Conference on Computational Science and Engineering (CSE-08), São Paulo – Brazil, July 16-18, 2008.
- [125] "An Energy Efficient Framework using Non-Volatile Flash Memory for Networked Storage Systems," Mais Nijim and Adel Ali, IRI 2008, Las Vegas, July 2008
- [124] "Congestion Avoidance in Multi-Agent-based Egress Simulation," Bikramjit Banerjee, Matthew Bennett, Mike Johnson, and Adel Ali, International Conference on Artificial Intelligence (ICAI-08), Las Vegas, July 14-17.
- [123] "Image Inpainting using a Fast Marching Eikonal Solver and Sum of Squared Differences," Xiaoli Huan, Adel Ali, and Bedduh Murali, Manuscript submitted to Journal of Computer Vision and Image Understanding, Summer 2007.
- [122] "Novel Approach to Digital Image Restoration," Xiaoli Huan, Beddhu Murali, and Adel Ali, IEMS 2006.
- [121] "Shape Recovery Using Level Set Method," Xiaoli Huan and Adel Ali, IEMS 2006
- [120] "Parallel computation of sensitivity analysis in optical tomography," Yang, Y., Zhang, C., Ali, A. and Cao, J., Proceedings of the International Conference on Parallel and Distributed Computing, 2005.
- [119] "Embedded Image Coding Using Zeroes of Wavelet Coefficients for Visible Human Dataset," Y. Mu, B. Murali, and Adel Ali, 30th Asilomar Conference on Signal Systems and Computers, CA, 2005.
- [118] "Flexible Business Architecture Solution using Expert System," Greg Coburn, Paulus Wahjudi, John Heath, Adel Ali, Dia Ali, and Maria Cobb, IEMS 2005
- [117] "Externally Validated Trust Engine for Web Services," Julie Stone, Paulus Wahjudi, Isaac Johnston, Adel Ali, Dia Ali, and Maria Cobb, IEMS 2005
- [116] "System for Policy Enforcement and Event Detection," Matthew Gambrell, Paulus Wahjudi, Adel Ali, Dia Ali, and Maria Cobb, IEMS 2005

- [115] "User Induced Vulnerability Prevention through PC Profiling," Paulus Wahjudi, Adel Ali, Dia Ali, and Maria Cobb, IEMS 2005
- [114] "An Adaptive Load Balancing Approach to Parallel Optical Image Reconstruction Systems", C. Zhang, Y. Ye, Adel Ali, and H. Lan, Proceedings of the 6th World Multi-conference on Systematic, Cybernetics, and Informatics, 2004.
- [113] "Task Portioning and Mapping Strategies for Parallel Optical Image Reconstruction Systems," C. Zhang, Y. Ye, Adel Ali, and H. Lan, Proceedings of the International Conference on Parallel and Distributed Processing Techniques and Application, 2004.
- [112] "EAGLE-AGENT: A Mobile Agent Component," Yufang Wang, Hong Zhou, Paulus Wahjudi, Adel Ali, and Dia Ali. IEMS 2004
- [111] "Collaborative Virtual Environment for Heterogeneous Access, Modeling, and Analysis of Geospatial Data," Paulus Wahjudi, Adel Ali, Dia Ali, and Maria Cobb IEMS 2004
- [110] "An Adaptive Load Balancing Approach to Parallel Optical Image Reconstruction Systems," IEMS 2004
- [109] "Developing Smart Rooms to Monitor the Elderly," Alan Jay Spurgeon and Adel Ali, IEMS 2004;
- [108] "Network Service Load Balancing: A Predictive Neural Network Approach," John Heath and Adel Ali, IEMS 2004
- [107] "Programming with Stochastic Petri nets: Simple Model-to-Code Conversion In a Game Design Setting," Kevin Vaughn, Cliff Burgess, and Adel Ali, IEMS 2004
- [106] "Dynamic Positioning Using Geographic Information Systems," Matthew Boe and Adel Ali, IEMS 2004
- [105] "A Visualization Tool for the API Calculus," Raheel Ahamad, Dia Ali, Adel Ali, and Maria Cobb", Proceedings of the IEMS'03 International Conference, Cocoa Beach FL, March 16-18, 2003
- [104] "GIS Visualization with Multiple User Interaction," Paulus Wahjudi, Dia Ali, Adel Ali, and Maria Cobb", Proceedings of the IEMS'03 International Conference, Cocoa Beach FL, March 16-18, 2003.
- [103] "Evaluating the Machine Learning of Support Vector Machine: A DNA Microarra Analysis Case Study," Yufang Wang, and Adel Ali, Proceedings of the IEMS'03 International Conference, Cocoa Beach FL, March 16-18, 2003.

- [102] " Spatial Validation Of Cotton Simulation Model In Relation To Soils And Multispectral Imagery," Javed Iqbal, Ishtiaq Ali, Frank D. Whisler , and Adel Ali, , Proceedings of the IEMS'03 International Conference, Cocoa Beach FL, March 16-18, 2003.
- [101] " Evaluation Of Remote Sensing Capabilities In Weed Detection And Mapping In Cotton ," Javed Iqbal, Ishtiaq Ali, Frank D. Whisler, and Adel Ali, , Proceedings of the IEMS'03 International Conference, Cocoa Beach FL, March 16-18, 2003.
- [100] " Visualization Of Electrophoretic Deposition Of Chain Macromolecules," Arun Kumar Rajendran and Adel Ali, , Proceedings of the IEMS'03 International Conference, Cocoa Beach FL, March 16-18, 2003.
- [99] " An Intelligent Data Fusion System," Krishnaveni Chinta and Adel Ali, Abstract, Proceedings of the IEMS'03 International Conference, Cocoa Beach FL, March 16-18, 2003.
- [98] " A Visualization Approach to Predict the Secondary Structure of Protein Modeling," Yi Mu, Peter Butko, and Adel Ali, , Proceedings of the IEMS'03 International Conference, Cocoa Beach FL, March 16-18, 2003.
- [97] "SQA Warm-Fuzzy: A New Application of Fuzzy Logic for the asurement of Software Quality and Prediction of Future Performance ," Adel Ali and Robert Moore, 30th International Conference on Computers and Industrial Engineering, Tinos Islands, Greece June 2002.
- [96] "Content Management and Framework for a University Information Portal System," Adel Ali and Vasu Ramanujam, 30th International Conference on Computers and Industrial Engineering, Tinos Islands, Greece June 2002.
- [95] "Visualization of Electrophoretic deposition of Polymer Surfaces," Adel Ali and Arun Kumar Rajendran, 30th International Conference on Computers and Industrial Engineering, Tinos Islands, Greece June 2002.
- [94] "Analysis and Evaluation of Natural Language Based Search Engines," Arun Kumar and Adel Ali, Proceedings of the IEMS'01 International Conference, Cocoa Beach FL, March 5-7, 2001.
- [93] "An Investigation of Quantum Neural Netwroks," Vasudevan Ramanujam and Adel Ali, , Proceedings of the IEMS'01 International Conference, Cocoa Beach FL, March 5-7, 2001.
- [92] "Employing Mutual Exclusion Algorithms for Collaborative Immersive Visualization: CTHRU-C A Case Study," Gary Morris, Nishant Kaul, Adel Ali, and Conrad Johnson, SPIE'S Aerosense 2001 Meeting, 15 - 20 April 2001, Orlando, FL.

- [91] "Fuzzy Logic in Highly Autonomous Robotics," Heath Williams-Greenwell and Adel Ali, Proceedings of the IEMS'01 International Conference, 2001
- [90] " Visualization of Computational Chemistry Data using OpenGL and CAVE Libraries ,",S. Miller and Adel Ali," Proceedings of the IEMS'01 International Conference, 2001
- [89] " Mipmapping and Level of Detail: Performance Enhancements in Visualization Tools ,",Mark Gill and Adel Ali," Proceedings of the IEMS'01 International Conference, 2001.
- [88] " Immersive Visualization and Animation of Time Dependent Scientific Data Sets ,",S. Miller and Adel Ali," Proceedings of the IEMS'01 International Conference, 2001.
- [87] " Cthru-C: A Novel Approach for Collaborative Immersive Visualization of Temporal Data Sets," Gary Morris and Adel Ali," Proceedings of the IEMS'01 International Conference, 2001.
- [86] "A four Site Model for the Elonged LCD Molecules: Visualization," Joon Lee and Adel Ali," Proceedings of the March Meeting of the American Physical society, 2000.
- [85] "AI techniques in Computational Biology: Locating The Phosphoamino Acids In A Protein Molecule (Case Study)," Hong Zhou and Adel Ali, Proceedings of the IEMS'2000 International Conference, Cocoa Beach, FL, March 13-16, 2000.
- [84] "Efficient Algorithm for Computing Principal Components used in Remote Sensing," M.J. Miller and Adel Ali, Proceedings of the IEMS'2000 International Conference, Cocoa Beach, FL, March 13-16, 2000.
- [83] "Expert Systems used in Pipeline Transportation Scheduling," Wei Pan and Adel Ali, Proceedings of the IEMS'99 International Conference, Cocoa Beach, FL, March 8-10, 1999.
- [82] "Genetic Algorithms And The Future of Artificial Intelligence," Lonnie T. Cumberland and Adel Ali, Proceedings of the IEMS'99 International Conference, Cocoa Beach, FL, March 8-10, 1999.
- [81] "The Role of Polymorphism and Inheritance in Recursive Algorithms in Object Oriented Programming" M.J. Miller and Adel Ali, Proceedings of the IEMS'99 International Conference, Cocoa Beach, FL, March 8-10, 1999.
- [80] "AI Statistical And Visualization Techniques In Data Mining," Mukesh Allu and Adel Ali, Proceedings of the IEMS'99 International Conference, Cocoa Beach, FL, March 8-10, 1999.
- [79] "Fuzzy HTML Document Retrieval Systems," Xiang Li and Adel Ali, Proceedings of the IEMS'99 International Conference, Cocoa Beach, FL, March 8-10, 1999.

- [78] "Moving from Client/Server to the Internet: A Case Study," Chuck Altemus and Adel Ali, Proceedings of the IEMS'99 International Conference, Cocoa Beach, FL, March 8-10, 1999.
- [77] "Inferences Decision making in Fuzzy Expert Systems," Anthony Wahjudi and Adel Ali, Proceedings of the IEMS'99 International Conference, Cocoa Beach, FL, March 8-10, 1999.
- [76] "Design Issues in Parallel Architectures for Artificial Intelligence," Danning Yang, and Adel Ali, Proceedings of the IEMS'99 International Conference, Cocoa Beach, FL, March 8-10, 1999.
- [75] "Decision Support Expert System for Credit Evaluation," Linmei Xu and Adel Ali, Proceedings of the IEMS'99 International Conference, Cocoa Beach, FL, March 8-10, 1999.
- [74] "Non-Standard Logic for AI," Lixia Luo and Adel Ali, Proceedings of the IEMS'99 International Conference, Cocoa Beach, FL, March 8-10, 1999.
- [73] "Neural Network In Business Applications," Li Yaohang and Adel Ali, Proceedings of the IEMS'99 International Conference, Cocoa Beach, FL, March 8-10, 1999.
- [72] "PrintoMaster: Expert Printing Control System," Harpreet Walia and Adel Ali, Proceedings of the IEMS'99 International Conference, Cocoa Beach, FL, March 8-10, 1999.
- [71] "Neural Networks Pattern Recognition Techniques: A Comparison Study," Jane Brockway and Adel Ali, Proceedings of the 25th International Conference on Computers and Industrial Engineering, New Orleans, March 29-April 1st, 1999.
- [70] "AI Decision Support for Medical Professionals," John McLaughlin and Adel Ali, Proceedings of the 25th International Conference on Computers and Industrial Engineering, New Orleans, March 29-April 1st, 1999.
- [69] "Scalable Object-Persistence Frameworks," M.J. Miller and Adel Ali, Proceedings of the 25th International Conference on Computers and Industrial Engineering, New Orleans, March 29-April 1st, 1999.
- [68] "Fuzzy Sort: The Uncertainty of a Vague Sort," William Gilreath and Adel Ali, Proceedings of the 25th International Conference on Computers and Industrial Engineering, New Orleans, March 29-April 1st, 1999.
- [67] "OnTrack: A Software Project Performance Assessor," Mir Hossain and Adel Ali, Proceedings of the 25th International Conference on Computers and Industrial Engineering, New Orleans, March 29-April 1st, 1999.

- [66] "The Common Object Request Broker Architecture (CORBA)," Mukesh Allu and Adel Ali, Proceedings of the 25th International Conference on Computers and Industrial Engineering, New Orleans, March 29-April 1st, 1999.
- [65] "The Semantic Intricacy of Natural Language Processing and Understanding," Supreeya Boontham and Adel Ali, Proceedings of the 25th International Conference on Computers and Industrial Engineering, New Orleans, March 29-April 1st, 1999.
- [64] "Micro Data Mining: The Neuro-Relational Database," Min Zahng and Adel Ali, Proceedings of the 25th International Conference on Computers and Industrial Engineering, New Orleans, March 29-April 1st, 1999.
- [63] "Fuzzy Logic Expert Systems as Diagnostic Tools," Don Hoffman and Adel Ali, Proceedings of the IEMS'98 International Conference, Cocoa Beach, FL, March 9-11, 1998.
- [62] "The Spatial Database," Yu Cai and Adel Ali, Proceedings of the IEMS'98 International Conference, Cocoa Beach, FL, March 9-11, 1998.
- [61] "Intelligent Super-Sampling in Ray Tracing," Khaled El-Sawi and Adel Ali, Proceedings of the IEMS'98 International Conference, Cocoa Beach, FL, March 9-11, 1998.
- [60] "Accelerated Internet Communications for Emergency Systems," Khaled El-Sawi and Adel Ali, Proceedings of the IEMS'98 International Conference, Cocoa Beach, FL, March 9-11, 1998.
- [59] "A Knowledge Based Client/Server Application System," M.J. Miller and Adel Ali, Proceedings of the IEMS'98 International Conference, Cocoa Beach, FL, March 9-11, 1998.
- [58] "Safe-Mail: A Secured Way of Communications on the Internet," Mir Hossain and Adel Ali, Proceedings of the IEMS'98 International Conference, Cocoa Beach, FL, March 9-11, 1998.
- [57] "Performance Evaluation of Neural Nets for Pattern Recognition," Albena Fairchild and Adel Ali, Proceedings of the IEMS'98 International Conference, Cocoa Beach, FL, March 9-11, 1998.
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- [54] "An Intelligent Input for Robot Inverse Kinematics: A Grasp Analysis Approach," Adel L. Ali, Proceedings of the 22nd International Conference on Computer and Industrial Engineering, The American University in Cairo, Dec. 20-22, 1997.
- [53] "Design Issues for Object-Oriented Patient-Centered Medical Database," Adel L. Ali, Proceedings of the 22nd International Conference on Computer and Industrial Engineering, The American University in Cairo, Dec. 20-22, 1997.
- [52] "A Fuzzy Logic Approach to the Conceptual Design of the V-Chip," Adel L. Ali, Proceedings of the 21st International Conference on Computer and Industrial Engineering, The American University in Cairo, Dec. 20-22, 1997.
- [51] "Oceanographic Data Processing in Distributed Object Oriented Programming Environment", M.J. Miller and Adel L. Ali, Mathematical Modelling and Scientific Computing: An International Journal, Vol. 8, 1997.
- [50] "Feasibility Analysis of Back-propagation Neural Networks in Image Enhancement," Mir Hossain and Adel L. Ali, Mathematical Modelling and Scientific Computing: An International Journal, Vol. 8, 1997.
- [49] "Knowledge-guided Search for Solving Highly Complex Games: A Case Study with Computer Go," Adel L. Ali, Mathematical Modelling and Scientific Computing: An International Journal, Vol. 8, 1997.
- [48] "Lexical, Syntax, and Semantic Complexity in Non-Latin Natural Language Processing," Mazin Al-Qurashi and Adel L. Ali, Mathematical Modelling and Scientific Computing: An International Journal, Vol. 8, 1997.
- [47] "Towards a Comprehensive Sensory Data Analysis in Autonomous Systems: Merging Sonar with Phase-based Stereo Vision," Alice Yu Qiao and Adel L. Ali, Mathematical Modelling and Scientific Computing: An International Journal, Vol. 8, 1997.
- [46] "Stabilization Techniques For A High Frequency Acoustics Platform," Kamal S. Ali and Adel L. Ali, Mathematical Modelling and Scientific Computing: An International Journal, Vol. 8, 1997.
- [45] "The suitability of Fuzzy Database Model in Information Retrieval Systems," Yu Cai and Adel L. Ali, Proceedings of the IEMS'97 International Conference, Cocoa Beach, FL, March 10-12, 1997, pp. 118-124.
- [44] "On-line Multi-Arm Robot Motion Planning and Manipulation," Melissa Wiggins and Adel L. Ali, Proceedings of the IEMS'97 International Conference, Cocoa Beach, FL, March 10-12, 1997, pp. 138-143.

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- [41] "Artificial Neural Networks in Image Filtering," Mir Hossain and Adel L. Ali, Proceedings of the IEMS'97 International Conference, Cocoa Beach, FL, March 10-12, 1997, pp. 343-348.
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- [14] "Object Oriented Robot Programming: A Man-Machine Approach, "Adel L. Ali, and Roger Nagel, Third International Conference on Human-Computer Interaction, Boston, Sept 18-22, 1989.
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Journal Articles in preparation:

1. Adel Lotfy Ali and Kahled El Sawi, "Genetic Calculus: A Framework for the Guided Evolution of Autonomic Robotic Controllers"
2. Adel Lotfy Ali and Bikram Banerjee, "Scalable Congestion Avoidance in Multi-Agent-based Evacuation Simulation"

History of Professional Affiliations:

1. The International Society for Optical Engineering
2. Association for Computing Machinery

3. American Association for Artificial Intelligence
4. International Neural Network Society
5. Society for Computer Simulation
6. Society of Manufacturing Engineering
7. Engineers Society of Kuwait
8. Engineers Society of Egypt
9. Upsilon Pi Epsilon

Selected Professional Service:

- Founding Editorial Board member of the Journal of Management and Engineering Integration
- Program Coordinator, Industry, Engineering, and Management Systems (IEMS) International Conferences 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, and 2010
- Referee, Computers & Industrial Engineering: An International Journal.
- Referee, Informatica: An International Journal of Computing and Informatics.
- Referee, International Journal of Computational Intelligence
- Referee, International Multi-Conference on. Engineering and Technological Innovation
- Mississippi Supercomputer User Advisory Group (MSUAG)
- Mathematical Modeling and Scientific Computing Conference Organizing Committee

Selected University Service:

- Campus Executive Committee (UMC)
- Chair, Online Quality Teaching Committee (UMC)
- Campus Strategic Planning Committee (UMC)
- Campus Curriculum Committee (UMC)
- Chair, Computational Sciences Council (2006-2008) (USM)
- Faculty advisor for 6 USM student organizations, Sports Club Advisor of the Year Award two years back to back (2003-2004 and 2004-2005) (USM)
- Member of Council of Chairs (USM)
- Council of the Chairs representative on the USM ADA committee (USM)
- Council of the Chairs representative on the IT Governance Advisory Council (USM)
- Council of the Chairs representative on Evaluation of Teaching committee (USM)
- Council of the Chairs representative on Online Evaluation of Teaching committee (USM)
- Intramural sports advisory board (USM)
- College of Science and Technology By-laws Committee (USM)
- College of Science and Technology Curriculum Committee (USM)
- College of Science and Technology Executive Committee (USM)
- Faculty Council Committee Gulf-Park Governance Committee (USM)
- Council of School of Mathematical Sciences (USM)
- Proposal for the Establishment of a BS degree program in Software Engineering (USM)

Selected Economic Development Contribution:

In 2005, I recruited Bearing Point Corporation to establish a major software development center in Hattiesburg, MS. The center will house 300 software engineers. Bearing Point is now building a partnership with USM in teaching and research.