



Mohammad-R. Akbarzadeh-T., Professor,
Departments of Electrical Engineering and Computer Engineering,
Ferdowsi University of Mashhad,
P.O. Box 91775-1111, Mashhad, Iran. Telephone: +98 (511) 880-5010
Email: akbarzadeh-at-kiacee.org or Akbarzadeh-at-ieee.org

Education:

Doctor of Philosophy, 1998, Electrical Engineering, University of New Mexico (USA),
Dissertation topic is *Fuzzy Control and Evolutionary Optimization of Complex Systems*. GPA
3.82.

- Received the College of Engineering's "*Outstanding Graduate Student Award*."

Masters of Science, 1992, Robotics and Control Systems, University of New Mexico (USA),
GPA 3.6.

Bachelors of Science, 1989, Electrical Engineering, University of New Mexico (USA), GPA
3.31.

Research Interests:

Complex Systems, Computational Intelligence (Fuzzy Logic, Neural Networks, Genetic Algorithms, Reinforcement Learning), Pattern Recognition, Distributed Artificial Intelligence, Systems of Systems, Multiagent Systems, Intelligent Control, Mobile and Manipulator Robotics, Biomedical Engineering.

Experience:

December 99-Present: Professor, Departments of Electrical Engineering and Computer Engineering, and Director of Center for Applied Research on Intelligent Systems and Soft Computing, Ferdowsi University of Mashhad.

- Received the University's Outstanding Faculty of the Year Award twice in 2002 and 2008, was also nominated for this award in 2004 by the College of Engineering, received *Outstanding Faculty Award in Support of Student Scientific Activities* in 2004. Was also nominated by the university for UNESCO's Young Investigator Award in 2001.
- Designed and taught three new courses on "Soft Computing" (a graduate level course), "Multiagent Systems" (a graduate level course) and "Intelligent Systems" (an undergraduate course) and "Technical English" (an undergraduate EE course).
- Taught "Fuzzy Control," "Robotics" (two graduate level course), and "Modern Control" (an undergraduate course).
- Have advised over 40 completed M.S. thesis and two doctoral dissertations in the broad area of intelligent control/modeling. Currently advise fifteen masters and seven PhD students.
- Served as the IEEE Faculty Advisor for the newly established student branch from 2000-2008.
- Founded the university's Center for Applied Research on Intelligent Systems and Soft Computing" in 2009.
- Initiated the first student chapter in Iran for Iranian Association of Electrical and Electronic Engineers in 2004.

January 2007 – January 2009: Consulting Professor, Department of Aeronautical and Astronomical Engineering, Purdue University, USA.

January 2006 – January 2007: Visiting Scholar, Berkeley Initiative on Soft Computing (BISC), University of California at Berkeley, USA.

September 2004- Present: Professor, Departments of Biomedical Engineering and Artificial Intelligence, Azad University of Mashhad.

- Taught three graduate level courses on “Fuzzy Control” “Soft Computing,” and “Multi-agent Systems.”
- Currently advise 6 M.S. Thesis in the areas of “Time Delay Systems for Multiagent Traffic Control,” “Network Traffic Routing,” “Emboli Detection by Artificial Fuzzy Immune Systems,” “Intelligent ECG-based Heart VF Fault Detection,” “Evolutionary Seeded Region Growing for MRI Segmentation,” “Fuzzy Probabilities and Hierarchical Fuzzy Systems for Aphasia Classification,”

June 2001-2003: Research Assistant Professor, NASA Center for Autonomous Control Engineering.

- Under a NASA grant, working on distributed multi-agent cooperation and Virtual Laboratory software for simulating such distributed processing environment.

May 96 – September 2000: Research Engineer, NASA Center for Autonomous Control Engineering, University of New Mexico.

- Performed research in the areas of intelligent control, flexible robotics, water desalination process, and genetic algorithms.
- Supervised and assisted other doctoral, masters, and undergraduate students in various research projects.
- Assisted in writing research and educational proposals to NASA, Waste-management and Education Consortium (WERC), National Science Foundation (NSF), and Department of Energy (DOE).
- Initiated a new research project, “SoftLab,” and lead a team of eight (8) graduate and undergraduate students to produce a software environment for research and development in soft computing and intelligent control. An evaluation version of this software was released in August of 1998, and is a basis for a continual research grant to date. Worked with the CoMeT (Computational Mechanics Toolkit) to provide a unifying framework for both modeling and control of systems. A doctoral student recently completed her dissertation following this research.

August 97- August 99: Adjunct Assistant Professor, Department of Electrical and Computer Engineering, University of New Mexico.

- Taught the instrumentation laboratory (sophomore level), the digital and analog electronics laboratory (junior level) and the Signals and Communication Systems (junior level).
- Supervised four teaching assistants.
- Obtained necessary funding to upgrade the laboratories with state of the art computing facilities.

June 86 – September 2000: Engineer I, Language Learning Center, University of New Mexico.

- Designed custom electronic equipment such as special purpose audio-amplifiers, TV modulators, camera security system, and automatic video switchboards.
- Supervised a student employee with design and repair of audio/video/computer and other electronic instruments.

May 1998-August 1998: Consultant, Motorola Inc., Albuquerque, New Mexico.

- Investigated application of genetic algorithm and fuzzy logic techniques for process optimization

January 90 - May 96: Research and Teaching Assistant, Department of Electrical and Computer Engineering, University of New Mexico. Was the Department's nominee for the University's best teaching assistant of the year award in 1996.

- Performed various funded research such as robot applications in hazardous waste handling and intelligent control of water desalination plants.
- Conducted several successful research proposals.
- Taught undergraduate electrical engineering courses such as sophomore level circuit analysis I & II, and junior level digital-analog electronics labs.

August 86 - March 88: Computer Consultant, Department of Freshman Engineering, University of New Mexico.

August 85 - December 89: Grader, Department of Mathematics and Statistics.

Awards:

- Fall 2010: Excellent Leadership Award, Islamic Development Bank
- Fall 2009: Excellent Performance Award, Islamic Development Bank.
- Spring 2008: *Outstanding Faculty of the Year Award*, Ferdowsi University of Mashhad.
- Spring and Fall 2006: *IDB Merit Scholarship for High Technology*.
- Fall 2005: *Best Faculty Advisor Award in Solid Mechanics*, Iranian Society of Mechanical Engineers.
- Spring 2004: *Outstanding Faculty Award in Support of Student Scientific Activities*, Ferdowsi University of Mashhad.
- Spring 2002: *Outstanding Faculty of the Year Award*, Ferdowsi University of Mashhad.
- Fall 2001: *IEEE Senior Membership Award*
- Spring 1998: *Outstanding Graduate Student Award*, Department of EECE, University of New Mexico.
- Spring 1998: *Best poster paper award in Joint Conference on the Environment*, 1998.
- Summer 1994: *Best paper Award (Honorable Mention) in Robotics and Automation Category*, ISRAM'94.
- Spring, 1989: *Service Award*, Mathematical Honor Society (Kappa Mu Epsilon).
- Spring, 1988: *National Meritorious Award in Mathematical Contest in Modeling*.
- Fall, 1987: Ranked in the top one third in the nation. Putnam Intercollegiate Mathematical Competition.
- Spring, 1986: Ranked third in the Freshman Mathematics Competition, UNM.
- 1986-Fall, 1988: *Honor Roll*, College of Engineering.
- 1987-Spring, 1989: *General Honors Program*.

Professional Activities:

- 2009-2011: Council Member, International Fuzzy Systems Association (IFSA)
- 2009: Founding director, Center for Applied Research on Intelligent Systems and Soft Computing, FUM.
- 2008-Present: Member of Regents, Eqbal-Lahoori Institute of Higher Education.
- 2007-present: Founding President, Intelligent Systems Scientific Society of Iran.
- 2006-present: Founding Member, Bahar Institute of Higher Education
- 2003-Present: Founding Chairman of CIS Permanent Committee, Conference on Intelligent Systems.
- 2005-present: Member of Editorial Advisory Board, Journal of Engineering, Islamic Azad University-Mashhad Branch.
- 2002-2005: Member of governing council, Iranian Association of Electrical and Electronic Engineers, Khorasan Division.
- 1986 - 1988: President of the Mathematical Honor Society (KME). As president of the society, initiated the "Lobo Puzzle Contest" which was published weekly in the Daily Lobo. This effort was directed to foster appreciation of mathematics among general student body and community.
- 1987 - 1988: Honors Council, Golden Key National Honor Society. Was part of a team which organized the "hanging of the greens" at the university president house.
- 1987 - 1988: Treasurer of Junior Service Honor Society (Las Campanas). That year, the society had a huge budget surplus even after large donations to other non-profit organizations! Organizing "a car wash day" and "student ushering" at Popejoy Hall were two

of the innovative methods to create revenue for the society. Helped organize an effort to support the 1987 Winter Special Olympics.

Conference Technical Committees:

- 2011: Technical Chairman, 2011 Conference on Chaos, Fractals and Complex Systems (CFCS2011)
- 2011: Technical Track Chair (Intelligent Systems), 2011 International eConference on Computer and Knowledge Engineering (ICCKE2011)
- 2011: Chairman, National Workshop on Soft Computing (WSC2011), Mashhad, Iran.
- 2009: Member of Technical Committee, Third Joint Congress on Fuzzy and Intelligent Systems, Yazd, Iran.
- 2008: Member of Technical Committee, 2008 IEEE World Congress on Computational Intelligence, Hong Kong.
- 2007: Technical Chair of the First Joint Congress on Fuzzy and Intelligent System, 2007.
- 2006: Member of Technical Committee, IEEE Conference on Systems, Man and Cybernetics, Hawaii.
- 2005: Chairman, 2005 Mini-Symposium on Intelligent and Biomedical Systems. Tehran , Iran.
- 2004: Co-chair, Mini-symposium on Satisficing Multi-agent and Cyber-learning Systems, as part of World Automation Congress, Spain.
- 2004: Publications Chair, Twelfth Iranian Conference on Electrical Engineer, Mashhad, Iran.
- 2003: Chairman, 2003 Conference on Intelligent Systems, Mashhad, Iran.
- 2003: Member of Technical Committee, IEEE Conference on Decision and Control, Hawaii.
- 2003, 2008: Member of Technical Committee, Iranian Conference on Electrical Engineering.
- 2000: Member of Technical Committee, World Automation Congress, Maui, Hawaii.
- 1999: Member of Technical Committee, Genetic and Evolutionary Computation Conference, Orlando, Florida.
- 1999: Organizing Chair, 1999 ACE-PURSUE Student Conference, (APSC'99) Albuquerque, New Mexico.
- 1998: Organized and Chaired a session on Industrial Water Desalination Technology in World Automation Congress (WAC'98), Anchorage, Alaska.
- 1997: Organized and Co-chaired two sessions on *Evolutionary Computing* and *Fuzzy Logic* in IEEE International Conference on Robotics and Automation (ICRA'97).
- 1997: Organized and Chaired a session on Neural Networks and Control Systems in 1997 NASA University Research Centers-Technical Conference (URC-TC'97).
- 1996: Chaired two sessions on *Flexible Manipulators* and *Intelligent Manufacturing Systems* in 1996 World Automation Congress (WAC'96).

Journal Reviewer Board:

- Journal of Engineering, Tabriz University
- Journal of Engineering, Ferdowsi University of Mashhad

Research Proposals:

Have written or assisted in writing several winning proposals including,

- 2006 *Human-Machine Interaction in a Swarm Architecture for Urban Traffic*, was awarded \$50k by Honda (Honda Initiative Award), in collaboration with Purdue University, USA.
- 1999 *A Virtual Modeling and Simulation Laboratory for Autonomous Rovers*, Was awarded over \$1M by NASA for three years.

- 1996 *Experimental Testbeds for Intelligent Robot Controllers Based on Soft Computing Approaches with Applications to Waste Management*. Was awarded 167,326.00 dollars by Waste Education and Research Consortium in 1996 for a two year period.
- 1996 *Experimental Testbed for a Single Stage Desalination Process*. Was awarded \$4000.00 by University of New Mexico Research Allocation Committee.
- 1995 *Experimental Testbeds for Fuzzy Logic, Neural Networks and Genetic Algorithms*. Was awarded 2,700.00 dollars by State of New Mexico's Commission on Higher Education.

Member:

- Intelligent Systems Scientific Society of Iran, Founding President (2007-present)
- Iranian Fuzzy Systems Association, Member of Executive Council (2009-present)
- New York Academy of Science, Member (2005-2006)
- Institute of Electrical and Electronics Engineers (IEEE), Senior Member
- Iranian Association of Electrical and Electronic Engineers, (IAEEE), Member of Executive Council-Khorasan Branch
- Electrical Engineering Honor Society (Eta Kappa Nu), Life Member
- Golden Key National Honor Society, Life Member
- Junior Service Honor Society (Las Campanas), Life Member
- Mathematics Honor Society (Kappa Mu Epsilon), Life Member

Workshops:

1. 2011: *Inspired from Physics: Introducing a New Paradigm for Distributed Optimization*, Ferdowsi University of Mashhad.
2. 2007: *Fuzzy Control for Precise Control*, Graduate Workshop on Fuzzy Systems, Co-sponsored by Center of Excellence on Fuzzy Systems, Kerman, and Sistan & Baluchestan Univ., Zahedan, Iran.
3. 2003: *Multiagent Systems and Distributed Artificial Intelligence*, Sponsored by the 2003 Conference on Intelligent Systems, Mashhad, Iran.
4. 2002: *Fuzzy Logic based Control System*, Sponsored by National Workshop on Fuzzy Mathematics, Mashhad, Iran.
5. 2002: *IEEE and Job Creation*, Sponsored by the First Meeting of Job Creation, Ferdowsi University of Mashhad.
6. 2002: *Soft Computing and Intelligent Systems in 21st Century*, Sponsored by Iranian Association of Electrical and Electronic Engineers, Mashhad, Iran.

Doctoral Committee Member:

1. Amir Abolfazl Suratgar, "Modeling and Stability Analysis of a Class of Linear and Nonlinear Linguistic Fuzzy Systems," Advisor: Dr. Seyed Kamaloldin Nikravesh.

Invited Lectures:

1. 2009: Inspired from Physics, *Introducing a New Paradigm for Distributed Optimization*, Keynote Lecture at the Third Joint Congress on Fuzzy and Intelligent systems, Yazd, Iran.
2. 2008: *Fuzzy Granulation for Evolutionary Design*, Keynote Lecture at the Second Joint Congress on Fuzzy and Intelligent Systems, Tehran, Iran.
3. 2007: *Robotics and Artificial Intelligence: Two Pieces of Same Puzzle*, Research & Innovation Week, Azad University of Quchan.

4. 2007: *Fuzzy Granulation for Better Evolution*, College of Engineering, Ferdowsi Univ. of Mashhad.
5. 2006: *A Window to Artificial Societal Evolution*, BISC Seminar, UC Berkeley, USA.
6. 2005: *Intelligent Agents: Possibilities and Applications*, University of Wollongong in Dubai, Dubai, UAE.
7. 2004: *An Uncertainty Based Taxonomy of Multi-agent Systems*, keynote lecture, Conference on Intelligent Systems, Kerman, Iran.
8. 2004: *Evolving Complexities*, keynote lecture, Conference on Fuzzy Systems, Tehran, Iran.
9. 2004: *Artificial Intelligence and Linguistics*, keynote lecture, Conference on Semantics and Pragmatics, Mashhad, Iran.
10. 2003: *Natural Thinking*, keynote, sponsored by 2003 Conference on Computer Engineering, Mashhad, Iran.
11. 2003: *Biological Thinking*, Keynote speech, Symposium on Biomedical Engineering, Azad University.
12. 2002: *Control Engineering Education*, in a Seminar on Control Engineering: Needs and Ways, sponsored by University of Tehran, Tehran, Iran.
13. 2001: *Fuzzy Systems and Probabilistic Systems, the Saga Continues*, in a seminar on Complexity and Fuzzy Logic, sponsored by Khajeh-Nassiroldin Toosi Technical University, Tehran, Iran.
14. 2001: *Genetic Algorithms and Its Applications*, sponsored by Ferdowsi University of Mashhad, Mashhad, Iran.
15. 2000: *Fuzzy Logic and Soft Computing*, in 22nd National Mathematics Competition, sponsored by Khajeh-Nassiroldin Toosi Technical University, Tehran, Iran.
16. 1999: *Soft Computing and Robotic Applications*, sponsored by College of Engineering, Ferdowsi University of Mashhad.

Patents:

A. kiani-B., M. H. Malek, and M.-R. Akbarzadeh-T., “Sensorless Motor Speed Control Using Kalman Estimators” Patented in Iran’s Patent Office.

Refereed Journal Publications:

1. M.-R. Akbarzadeh-T. & M. Jamshidi, “Evolutionary Fuzzy Control of a Flexible Link,” *International Journal of Intelligent Automation and Soft Computing*, Vol. 3, No. 1, pp.77-88, 1997.
2. M.-R. Akbarzadeh-T., M. Jamshidi, E. Tunstel, & K. K. Kumbala, *Soft Computing for Autonomous Robotic Systems*, *Journal of Computers and Electrical Engineering* 26 (2000), 5-32.
3. Aly El-Osery, J. Burge, M. Jamshidi, A. Saba, M. Fathi, and M.-R. Akbarzadeh-T., “V-Lab: A Virtual Laboratory for Autonomous Agents – SLA-Based Learning Controllers,” *IEEE Transactions on Systems, Man and Cybernetics – Part B: Cybernetics*, Vol. 32, No. 6, pp.791-803, December 2002.
4. M. Jamshidi, S. Sheikh-Bahaei, J. Kitzinger, P. Sridhar, S. Beatty, S. Xia, Y. Wang, T. Song, U. Dole, J. Liu, E. Tunstel, Jr, M. Akbarzadeh, A. El-Osery, M. Fathi, X. Hu, and B. P. Zeigler. “A Distributed Intelligent Discrete-Event Environment for Autonomous Agents Simulation,” *International Journal of Intelligent Automation and Soft Computing*, Vol. 9, No. 3, pp.181-214, 2003.

5. M. Torabi, M.-R. Akbarzadeh-T., M. Khademi, "Cooperative Co-evolving Neural Networks for RoboSoccer Simulation," *International Journal of Engineering*, pp.207-218, Vol. 18, No. 2, May 2005.
6. M. Saadatmand, M.-R. Akbarzadeh-T., and M. Khademi, "A Hybrid Constructive-Optimizing Neural Network for Traveling Salesman Problem," *Journal of Engineering*, University of Tehran, October 2005.
7. M.-H. Yaghmaee-M., D. Malek, and M.-R. Akbarzadeh-T., "Design of an Artificial Evolutionary Fuzzy Immune System for Network Security," (In Farsi) *Iranian Journal of Computer Science*, pp. 1-12, No. 3A, Vol. 3, Fall 2005.
8. M.-B. Naghibi-S., M.-R. Akbarzadeh-T., H. Javidi, H. Rajabi-M., "Application of Q-learning with Temperature Variation for Bidding Strategies in Market Based Power Systems," *Journal of Energy Conversion and Management*, Vol. 47, Issue 11/12, pp.1529-1538, July 2006.
9. A. Nazemi, S. M. Hosseini, and M.-R. Akbarzadeh-T., "Soft Computing-based Nonlinear Fusion Algorithm for Describing Non-Darcy Flow in Porous Media," *IAHR Journal of Hydraulic Research*, 2006.
10. A. Soltani, M.-R. Akbarzadeh-T., and M. Naghibzadeh, "Helping Ants for Adaptive Network Routing," *Journal of Franklin Institute*, No. 343, Issue 4/5, pp. 389-403, July 2006.
11. M.-B. Naghibi-S., M.-R. Akbarzadeh-T., H. Javidi, H. Rajabi-M., "Q-Adjusted Annealing for Q-learning of Market-Based Multi Source Power Systems," *IEEE Proceedings of Generation, Transmission & Distribution*, Vol. 153, Issue 6, pp. 653-660, November 2006.
12. M.-R. Akbarzadeh and R. Shahnazi, "Direct Adaptive Fuzzy PI Sliding Mode Control of Systems with Unknown but Bounded Disturbances," *Iranian Journal of Fuzzy Systems*, Vol. 3, No. 2, pp.33-51, 2006.
13. F. M. Kazemi, S. Samadi, H. Pourreza, M.-R. Akbarzadeh-T., "Vehicle Recognition Based on Fourier, Wavelet and Curvelet Transforms – a Comparative Study," *International Journal of Computer Science and Network Security*, Vol. 7, No. 2, February 2007.
14. A. Soltani, M.-R. Akbarzadeh-T., and M. Naghibzadeh, "Introducing Updating Ants for Neighboring Node's Routing Tables in AntNet," *Journal of Electrical Engineering and Computer Engineering*, Vol. 5, No. 1, Spring 2007 (in Farsi)
15. M. Saadatmand, M. Khademi, M.-R. Akbarzadeh-T., and H. Abrishami Moghaddam, "A Novel Constructive Optimizer Neural Networks for the Traveling Salesman Problem," *IEEE Transactions on Systems, Man and Cybernetics*, Part B, Vol. 37, Issue 4, pp 754-770, August 2007.
16. A. Khorsand and M.-R. Akbarzadeh-T., "Multi-objective Meta Level Soft Computing-based Evolutionary Structural Design," *Journal of the Franklin Institute*, Vol. 344, Issue 5, pp595-612, August 2007.
17. M.-R. Akbarzadeh-T. and M. Moshtagh-K, "A Hierarchical Fuzzy Rule Based Approach to Aphasia Diagnosis," *Journal of Biomedical Informatics*, Vol. 40, Issue 5, pp.465-475, October 2007.
18. M. Mohebbi, F. Shahidi, M.-R. Akbarzadeh-T., M. Mousavi, and H. B. Ghoddsi, "Evaluation of Kinetics, Shrinkage, and Rehydration in Shrimp Drying Process," (in Persian) *Journal of Agricultural Sciences and Technology*, Ferdowsi University of Mashhad, Vol. 20, No. 5, pp.305-315, 2006-2007.
19. M. Mohebbi, M.-R. Akbarzadeh-T., and A. Milanifard, "Microorganism DNA Pattern Search in a Multi-agent Genomic Engine Framework," *World Applied Sciences Journal* 2 (6): 582-586, 2007.
20. R. Shahnazi and M.-R. Akbarzadeh-T., "PI Adaptive Fuzzy Control with large and Fast Disturbance Rejection for a Class of Uncertain Nonlinear Systems," *IEEE Transactions on Fuzzy Systems*, Vol. 16, No. 1, pp.187-197, February 2008.

21. Y. Babazadeh, S. M. Mousavi, M. R. Akbarzadeh, "Multidimensional Dynamic Modeling of Milk Ultrafiltration Using Neuro-Fuzzy Method and a Hybrid Physical Model," *Iranian Journal of Chemical Engineering*, Vol. 5, No. 2 (Spring), pp.3-22, 2008.
22. M. Mohebbi, J. Barouei, M.-R. Akbarzadeh-T., A. R. Rowhanimanesh, M. B. Habibi-Najafi, and M. Yavarmanesh, "Modeling and Optimization of Viscosity in Enzyme-Modified Cheese by Fuzzy Logic and Genetic Algorithm," *Journal of Computers and Electronics in Agriculture*, Vol. 62, Issue 2, pp. 260-265, July 2008.
23. A. Bagheri, M.-R. Akbarzadeh-T., and M.-H. Saraee, "Finding Shortest Path with Learning Algorithms," *International Journal of Artificial Intelligence*, pp.86-95, Vol. 1, Number A08, Autumn 2008.
24. M.-R. Akbarzadeh-T., M. Davarynejad, and N. Pariz, "Adaptive Fuzzy Fitness Granulation for Evolutionary Optimization," *International Journal of Approximate Reasoning*, pp. 523-538, Vol. 49 (2008).
25. M. Amin Rigi, A. Milani Fard, M.-R. Akbarzadeh-T., "Finding Optimal Grid Dimension for Partitioning Linguistic Variables of Fuzzy Concepts," *International Journal of Mathematics and Computer Science*, 3(2008), no. 2, pp. 141-150.
26. M. Mohebbi, M.-R. Akbarzadeh-T., F. Shahidi, M. Moussavi, and H.-B. Ghoddsi, "Computer Vision Systems (CVS) for Moisture Content Estimation in Dehydrated Shrimp," *Journal of Computers and Electronics in Agriculture*, 2009.
27. M. Moshtagh-Khorasani, M.-R. Akbarzadeh-T., N. Jahangiri, M. Khoobdel, "An Intelligent System Based on Fuzzy Probabilities for Medical Diagnosis – A Study in Aphasia Diagnosis," *Journal of Research in Medical Science*, March & April 2009, Vol. 14, No. 2.
28. A. Khajehkaramodin, H. Haji-Kazemi, A. Rowhanimanesh, and M.-R. Akbarzadeh-T., "Semi-Active Control of Structures Using Neuro-Inverse Model of MR Dampers," *Scientia Iranica: International Journal of Science and Technology*, Vol. 16, No. 3, Pages 256-263, June 2009.
29. M. Saadatmand-Tarzjan, M. Malboubi, M. Khademi, and M.-R. Akbarzadeh-T., "Vision-based Mobile Robot with a Combinational Navigation Paradigm Using a New Color Detection Algorithm," (in Persian) *Journal of Electrical Engineering (University of Tabriz)*, pp. 37-48, Vol. 39, No. 2, Autumn and Winter 2009.
30. M. Rezaei-Pajand, M.-R. Akbarzadeh-T., and A. Nikdel, "Direct Adaptive Neurocontrol of Structures under Earth Vibration," *Journal of Computing in Civil Engineering*, 2009.
31. M. Saadatmand-T., M. Malboubi, M. Khademi, and M.-R. Akbarzadeh-T., "Vision-based Mobile Robot with a Combinatorial Navigation Paradigm Using a New Color Detection Algorithm," *Tabriz Journal of Engineering*, Vol, 39, No.2, pp.37-48, 2009.
32. M. Vafaei-J. and M.-R. Akbarzadeh-T., "From Local Search to Global Conclusions: Migrating Spin Glass-based Distributed Portfolio Selection," *IEEE Transactions on Evolutionary Computations*, Vol. 14, No. 4, pp.591-601, August, 2010.
33. Sengstacken, A. J., DeLaurentis, D. A., Akbarzadeh-T., M. R., "Optimization of Shared Autonomy Vehicle Control Architectures for Swarm Operations," *IEEE Transactions on Systems, Man, and Cybernetics*, accepted for publication, Vol. 40, No. 4, August 2010.
34. M. Sotudeh-Chafi, M.-R. Akbarzadeh-T., and M. Moavenian, "A Novel Soft Computing Approach to Component Fault Detection and Isolation of CNC X-axis Drive System," *International Journal of Intelligent Automation and Soft Computing*, Vol. 16, No. 2, pp.177-191, 2010.
35. M. Mohebbi, M.-R. Akbarzadeh-T., F. Shahidi, and S. M. Zabihi, "Modeling and Optimization of Mass Transfer during Osmosis Dehydration of Carrot Slices by Neural Networks and Genetic Algorithms," *International Journal of Food Engineering*, vol.7, No.2, 2011.

36. M. Bahrepour, M.-R. Akbarzadeh-T., M. Yaghoobi, and M.-B. Naghibi-S., "An Adaptive Ordered Fuzzy Time Series with Application to FOREX," *Expert Systems with Applications*, Pages 475-485, Vol. 38, 2011.
37. M. Zavar, S. Rahati, M.-R. Akbarzadeh-T., and H. Ghasemifard, "Evolutionary Model Selection in a Wavelet-based Support Vector Machine for Automated Seizure Detection," *Expert Systems with Applications*, pp. 10751-10758, Vol. 38, No. 9, 2011.
38. A. Rowhanimanesh and M.-R. Akbarzadeh-T., "Perception-based Heuristic Granular Search: Exploiting Uncertainty for Analysis of Certain Functions," *Scientia Iranica: Transactions D: Electrical and Computer Engineering*, 2011.
39. M. Danesh, M. Naghibzadeh, M.-R. Akbarzadeh-T., M. Danesh, B. Minaei, and H. Shirgahi, "Data Clustering Based on an Efficient Hybrid of K-Harmonic Means, PSO, and GA," *Transactions on CCIIV, LNCS 6660*, pp.125-140, 2011.
40. M. Rezaei-Pajand, M.-R. Akbarzadeh-T., and A. Nikdel, "Reducing Frame Lateral Deflection by Active Control," *Journal of Civil Engineering*, Ferdowsi University of Mashhad, Vol.22, No.2, pp.1-16, 2011.
41. A. Rezaei, Alireza Akbarzadeh-Totonchi and Mohammad-R. Akbarzadeh-T., "An Investigation on Stiffness of a 3-PSP Spatial Parallel Mechanism with 1 Flexible Moving Platform Using Invariant Form.," *Journal of Mechanism and Machine Theory*, pp. 195-216, Vol. 51, No. 5, 2012.
42. S. Mohsen Zabihi and M.-R. Akbarzadeh-T., "Generalized Fuzzy C-Means Clustering with Improved Fuzzy Partitions and Shadowed Sets," *International Scholarly Research Network, ISRN Artificial Intelligence*, Vol. 2012.
43. M. Vafaei-Jahan, M.-R. Akbarzadeh-T., "Extremal Optimization vs. Learning Automata: Strategies for Spin Selection in Portfolio Selection Problems," *Journal of Applied Soft Computing*, pp. 3276-3284, Vol. 12, 2012.

Book Publications:

44. R. Knight and M.-R. Akbarzadeh-T., "Using Fuzzy Logic to Automatically Configure a Digital Filter," Chapter 11, pp.232-262, in *Fuzzy Logic and Control: Software and Hardware Applications*, M. Jamshidi, N. Vadiiee, and T. Ross, Ed., Prentice Hall, 1992.
45. M.-R. Akbarzadeh-T., K. Kumbala, M. Jamshidi, and R. D. Colbaugh, "Intelligent Control of Flexible and Redundant Manipulators," Chapter 7, pp.115-136, in *Waste-Management: From Risk to Remediation*, by R. Bhada, et. al., ECM Press Publishers, Albuquerque, New Mexico, 1994.
46. M.-R. Akbarzadeh-T. and A.-H. Meghdadi, "Evolutionary Fuzzy Systems," by M. Jamshidi and Zilouchian, Chapter 19, pp.409-436, in *Intelligent Control Systems using Soft Computing Methodologies*, pp.409-437, CRC Press, Boca Raton, Florida, 2001.
47. M. Jamshidi, S. Sheikh-Bahaei, J. Kitzinger, P. Sridhar, S. Xia, Y. Wang, J. Liu, E. Tunstel, Jr, M. Akbarzadeh, A. El-Osery, M. Fathi, X. Hu, and B. P. Zeigler. "A Distributed Intelligent Discrete-Event Environment for Autonomous Agents Simulation," Chapter 11, pp. 241-274, *Applied System Simulation: Methodologies and Applications*, Kluwer Academic Publishers, 2003.
48. M.-R. Akbarzadeh and A.-H. Meghdadi, "Fuzzy Modeling of Nonlinear Stochastic Systems by Learning from Examples," pp. 85-105, *Forging New Frontiers: Fuzzy Pioneers II*, as part of the Spring Series on Studies in Fuzziness and Soft Computing, Editors: M. Nikravesh, J. Kacprzyk, and L. A. Zadeh, Springer, New York, 2008.
49. A. Rowhanimanesh, A. Khajehkaramodin, and M.-R. Akbarzadeh-T., "Evolutionary Constrained Design of Seismically Excited Buildings: Sensor Placement," in *Applications of*

Soft Computing, AISC 58, by J. Mehnen et al. (Eds.), pp.159-169, Springer-Verlag, Berlin Heidelberg, 2009.

50. M. Tayarani and M-R. Akbarzadeh-T., "Improvement of Quantum Evolutionary Algorithm with a Functional Sized Population", *Applications of soft computing*, pp.389-398, vol 58/2009.
51. M-R. Akbarzadeh-T and M. Tayarani., "A Cellular Probabilistic Evolutionary Algorithms for Real-Coded Function Optimization," *Advances in computer science and Engineering*, CCIS6, PP.741-744, 2009.

Refereed Conference Publications:

52. C. Abdallah, M.-R. Akbarzadeh-T., and R. Jordan, "On The Design and Control of Dynamically Decoupled Robots," *Proceedings of the 1991 Symposium on the Control of Robots and Manufacturing Systems*, The University of Texas, Ft. Worth, Texas, 1991.
53. M.-R. Akbarzadeh-T. and C. Abdallah, "An Application of Kalman Filtering Technique in the Control of Noisy Robotic Systems," *Proceedings of the 1992 International Conference on Engineering Applications of Mechanics*, Tehran, Iran, 1992.
54. M.-R. Akbarzadeh-T., H. Xue, and M. Jamshidi, "Model Reduction of a Flexible Arm Using Pade'-Routh Approximation," *Proceedings of the International Conference on Electrical Engineering*, Tehran, Iran, 1993.
55. M.-R. Akbarzadeh-T., M. Jamshidi, and N. Vadiiee, "A Hierarchical Fuzzy Controller Using Line-Curvature Feature Extraction for a Single Flexible Arm," *Proceedings of the Third IEEE Conference on Fuzzy Systems*, Orlando, Florida, 1994.
56. M.-R. Akbarzadeh-T. and A.-R. Akbarzadeh-T., "A Lyapunov-Based Back-Stepping Controller for a 2-Link Flexible-Joint Planar Robot Arm," *Proceedings of the 1994 Iranian Conference on Electrical Engineering*, PP. 133-141. Tehran, Iran, 1994.
57. M.-R. Akbarzadeh-T., "A Fuzzy Hierarchical Controller for a Single Flexible Arm," *Proceedings of the International Symposia on Robotics and Manufacturing*, Maui, Hawaii, 1994. (Best Paper Award)
58. M.-R. Akbarzadeh-T., K. Kumbla, and M. Jamshidi, "Intelligent Control of Flexible and Redundant Manipulators," *Proceedings of the Waste-management Education and Research Consortium*, Las Cruces, New Mexico, 1994.
59. M.-R. Akbarzadeh-T., M. Jamshidi, and P. Dorato, "Fuzzy Hierarchical Control of Distributed Parameter Systems, A Case Study on a Heating Slab," *Proceedings of the Applied Computing Symposium on Applied Computing*, Nashville, Tennessee, 1995.
60. E. Tunstel, M.-R. Akbarzadeh-T., K. Kumbla, and M. Jamshidi, "Hybrid Fuzzy Control Schemes for Robotic Systems," *Proceedings of 10th IEEE International Symposium on Intelligent Control*, Monterey, California, 1995.
61. M.-R. Akbarzadeh-T., K. Kumbla, and M. Jamshidi, "Genetic Algorithms in Learning Fuzzy Hierarchical Control of Distributed Parmater Systems," *Proceedings of IEEE Conference on Systems, Man and Cybernetics*, Vancouver, Canada, 1995.
62. K. Kumbla, M.-R. Akbarzadeh-T., and M. Jamshidi, "TMS320 DSP Based Neuro-Fuzzy Controller," *Proceedings of IEEE Conference on Systems, Man and Cybernetics*, Vancouver, Canada, 1995.
63. M.-R. Akbarzadeh-T., E. Medina, and M. Jamshidi, "DSP Implementation of Evolutionary Fuzzy Control," *Proceedings of the First National Student Conference*, NASA, Greenville, NC, March 1996.

64. N. Vadiiee, M.-R. Akbarzadeh-T., "Analogous Fuzzy Rule Based Expert Systems," *Proceedings of the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)*, New Orleans, LA, 1996 .
65. E. Tunstel, M.-R. Akbarzadeh-T., K. Kumbla and M. Jamshidi, "Soft Computing Paradigms for Learning Fuzzy Controllers with Applications to Robotics," *Proceedings of the North American Fuzzy Information Processing Society*, Berkeley, CA, June 1996.
66. M.-R. Akbarzadeh-T. and K. Kumbla, "Intelligent Control of Desalination Plants: GA-Fuzzy Approach," *Proceedings of the First International Symposium on Intelligent Automation and Control*, Montpellier, France, May 1996.
67. M.-R. Akbarzadeh-T., K. Kumbla, S. Rodriguez, and Y. Kim, "Evolutionary Fuzzy Control in Real-Time DSP Controlled Systems," *Sixth Proceedings of the International Symposium on Robotics and Manufacturing*, Montpellier, France, May 1996.
68. K. Kumbla, M.-R. Akbarzadeh-T., M. McCrory, "Intelligent Control of Desalination Plants: Neuro-Fuzzy Approach," *Proceedings of the First International Symposium on Intelligent Automation and Control*, Montpellier, France, May 1996.
69. K. Kumbla, M.-R. Akbarzadeh-T., E. Medina, "Adaptive Neuro-Fuzzy Controller on a Digital Signal Processor," *Proceedings of the Sixth International Symposium on Robotics and Manufacturing*, Montpellier, France, May 1996.
70. M. Jamshidi, M.-R. Akbarzadeh-T. & K. Kumbla, "Design and Implementation of Fuzzy Controllers for Complex Systems - Case Study: A Water Desalination Plant," *Proceedings of the International Conference on Industrial Fuzzy Control and Intelligent Systems*, Cancun, Mexico, 1996.
71. Y. T. Kim, M.-R. Akbarzadeh-T. & D. W. Lee, "State Feedback Adaptive Control of a Direct Drive Motor," *Proceedings of the IEEE Southeastern Symposium on System Theory*, Cookeville, TN, March 9-11, 1997.
72. M.-R. Akbarzadeh-T. & Y. T. Kim, "Evolutionary Fuzzy Speed Regulation for a DC Motor," *Proceedings of the IEEE Southeastern Symposium on System Theory*, Cookeville, TN, March 9-11, 1997.
73. M.-R. Akbarzadeh-T. & M. Jamshidi, "Evolutionary Fuzzy Control of a Flexible Link," Nominated for Best Paper Award, *Proceedings of the IEEE International Conference on Robotics and Automation*, Albuquerque, New Mexico, April 1997.
74. E. Medina, Y. T. Kim, & M.-R. Akbarzadeh-T., "Adaptive Fuzzy Control of a Direct Drive Motor," *Proceedings of the NASA University Research Centers-Technical Conference*, Albuquerque, New Mexico, Feb. 1997.
75. K. K. Kumbla & M.-R. Akbarzadeh-T., "Neural Network Based Sensory Fusion for Landmark Detection," *Proceedings of the NASA University Research Centers-Technical Conference*, Albuquerque, New Mexico, Feb. 1997.
76. M.-R. Akbarzadeh-T., E. Tunstel, & M. Jamshidi, "Genetic Algorithms and Genetic Programming: Combining Strength in One Evolutionary Strategy," *Proceedings of the Joint Conference on Environment*, Albuquerque, New Mexico, April 1997.
77. N. Vadiiee, D. J. Riedle, & M.-R. Akbarzadeh-T., "A Fuzzy Logic Autonomous Controller for the Optimization of the Soil Vapor Extraction Process," *Proceedings of the Joint Conference on Environment*, Albuquerque, New Mexico, April 1997.
78. M.-R. Akbarzadeh-T. & M. Jamshidi, "Incorporating A-Priori Expert Knowledge in Genetic Algorithms," Nominated for Best Paper Award, *Proceedings of the IEEE Conference on Computational Intelligence in Robotics and Automation*, Monterey, California, July 1997.
79. M.-R. Akbarzadeh-T. K. K. Kumbla, M. Jamshidi, & D. M. K. Al-Gobaisi, "Evolutionary PID Fuzzy Control of MSF Desalination Processes," *Proceedings of the IDA World Congress on Desalination and Water Reuse*, Madrid, Spain, October 6-9, 1997.

80. P. S. Sarkar, M.-R. Akbarzadeh-T., M. Jamshidi, & D. M. K. Al-Gobaisi, "Design and Modeling of a Laboratory Scale Single Stage Flash Desalination Plant", *Proceedings of the IDA World Congress on Desalination and Water Reuse*, Madrid, Spain, October 6-9, 1997.
81. Y.-T. Kim, M.-R. Akbarzadeh-T., D.-W. Lee, & S.-R. Lee, "Adaptive Fuzzy Sliding Mode Control of a Direct Drive Motor," *Proceedings of the IEEE International Conference on Systems, Man and Cybernetics*, pp.1668-1673, Orlando, Florida, October 1997.
82. E. Medina, M.-R. Akbarzadeh-T. & Y.T. Kim, "Adaptive Fuzzy Control of a Direct Drive Motor: Experimental Aspects," *Proceedings of the NASA University Research Centers-Technical Conference*, Tennessee, February 1998.
83. M.-R. Akbarzadeh-T., E. Medina, & M. Jamshidi, "Fuzzy Control of a Flexible Link: A review," *Proceedings of the NASA University Research Centers-Technical Conference*, Tennessee, February 1998.
84. M.-R. Akbarzadeh-T., S. Shaikh, R. Hubbell, & M. Jamshidi, "SoftLab: a Soft Computing Software for Experimental Research with Commercialization Aspects", *Proceedings of the NASA University Research Centers-Technical Conference*, Tennessee, February 1998.
85. M.-R. Akbarzadeh-T., M. Johnson, N. Vadiiee, & M. Jamshidi, "Intelligent Control of Robotic System in Handling Hazardous Waste: Research and Educational Aspects," *Proceedings of the 1998 Conference on Waste Management*, Tucson, Arizona, March 1998.
86. M.-R. Akbarzadeh-T. M. Johnson, & M. Jamshidi, "Control of Flexible Link Manipulators in Hazardous Environment," in *Proceedings of the Joint Conference on Environment*, Albuquerque, New Mexico, April 1998.
87. M.-R. Akbarzadeh-T., K. K. Kumbla, S. Shaikh, and M. Jamshidi, "SoftLab: A Soft Computing Software Laboratory for Research and Development," *Proceedings of the Joint Conference on Environment*, Albuquerque, New Mexico, April 1998.
88. M. A. Johnson, N. Vadiiee & M.-R. Akbarzadeh-T., "Robotic Basics: Taught at the Southwest Indian Polytechnical Institute," *Proceedings of the Joint Conference on Environment*, Albuquerque, New Mexico, April 1998.
89. M.-R. Akbarzadeh-T., E. Tunstel, K. Kumbla & M. Jamshidi, "Soft Computing Paradigms for Hybrid Fuzzy Controllers: Experiments and Applications," *Proceedings of the IEEE International Conference on Fuzzy Systems*, Anchorage, Alaska, May 1998.
90. M.-R. Akbarzadeh-T., E. Medina, & Y.-T. Kim, "Experimental Adaptive Fuzzy Control of Direct Drive Motor," *Proceedings of the 1998 World Automation Congress*, Anchorage, Alaska, May 1998.
91. P. S. Sarkar, M.-R. Akbarzadeh-T., & M. Jamshidi, "Modeling for Simulation and Control of a Single Stage Flash Desalination Pilot-plant", *Proceedings of the 1998 World Automation Congress*, Anchorage, Alaska, May 1998.
92. M.-R. Akbarzadeh-T., S. Shaikh, J. Ren, K. Kumbla, M. Jamshidi, "SoftLab: Soft Computing Made Easy," *Proceedings of the 1998 World Automation Congress*, Anchorage, Alaska, May 1998.
93. M.-R. Akbarzadeh-T. & M. Jamshidi, "Hierarchical Fuzzy Control of Flexible Robotic Systems," *Proceedings of the 1998 IFAC Symposium on Large Scale Systems*, Patras, Greece, July 1998.
94. M.-R. Akbarzadeh-T., M. Johnson, M. Jamshidi & N. Vadiiee, "Intelligent Robot Control in Waste Management Applications: Research and Educational Aspects," *Proceedings of the 1999 Waste-management Education & Research Conference*, Albuquerque, New Mexico, April 1999.
95. Lisa Desjarlais, M.-R. Akbarzadeh-T., C. Wright, "Control System Optimization Using Genetic Algorithms within the SoftLab Toolkit," *Proceedings of the 1999 Genetic and Evolutionary Computation Conference (GECCO'99)*, Orlando, Florida, July 1999.

96. C. W. Wright, L. M. Desjarlais, M.-R. Akbarzadeh, J. Maez, A. D. Martin, and W. S. Wittenburg, "A User's View of SoftLab," CD Proceedings of the World Automation Congress'2000, Maui, Hawaii, June 2000.
97. A.-H. Meghdadi and M.-R. Akbarzadeh-T., "Fuzzy Modeling of Nonlinear Stochastic Systems by Learning from Examples," Proceedings of the International Fuzzy Systems Association and North American Fuzzy Information Society Joint Conference 2001, pp. 2746-2751, Vancouver, Canada, July 2001.
98. M. Soadatmand, M.-R. Akbarzadeh-T., and M. Khademi, "A Hybrid Neural Network Solution for the Traveling Salesman Problem," (in Farsi) Proceedings of the Iranian Conference on Electrical Engineering, pp.29(1-8), Tehran, Iran, May, 2001.
99. S. Jalali, K. Ansari, M.-R. Akbarzadeh-T., and M. Gachpazan, "Solving Nonlinear Electromagnetic Problems Using Measure Theory," Proceedings of the IEEE Conference on Electro-Information Technology'2001, Rochester, MI, June, 2001.
100. M. Moavenian, M.-R. Akbarzadeh-T., and M. Sotudeh, "Using of Modeling Based on Soft Computing in Designing of a FDI system for a CNC X-axis Drive: Part II- Fuzzy Logic and Hybrid Based Systems," Submitted to ISME2001, Tehran, Iran, 2001. (in Persian)
101. M. Moavenian, M.-R. Akbarzadeh-T., and M. Sotudeh-Chafi, "A Survey on FDI Systems for Industrial Processes," in Proceedings of the Third Conference on Management and Maintenance in Industry, Tehran, Iran, 2001.
102. A.-H. Meghdadi and M.-R. Akbarzadeh-T., "Probabilistic Fuzzy Logic and Probabilistic Fuzzy Systems," Proceedings of the 10th IEEE International Conference on Fuzzy Systems, pp. 1127-1130, Melbourne, Australia, December, 2001.
103. M.-R. Akbarzadeh-T., A.-H. Meghdadi, "Fuzzy Modeling of Human Control Strategy for Overhead Crane," Proceedings of the 10th IEEE International Conference on Fuzzy Systems, 1076-1079, Melbourne, Australia, December, 2001.
104. M. Sotudeh, M.-R. Akbarzadeh-T., M. Moavenian, "Fault Detection and Isolation in Nonlinear Dynamic Systems: A Fuzzy Neural Approach," Proceedings of the 10th IEEE International Conference on Fuzzy Systems, Melbourne, Australia, December, 2001.
105. M. Malboubi, M. Khademi, M.-R. Akbarzadeh-T., and H. Rajabi-M., "Mobile Robot Path Planning using Genetic Algorithms," (in Farsi) Proceedings of the 10th Iranian Conference on Electrical Engineering, Tabriz, Iran, May 2002.
106. M. Malboubi, M.-R. Akbarzadeh-T., and M. Khademi, "Mobile Robot Fuzzy Trajectory Controller," (in Farsi) Proceedings of the 10th Iranian Conference on Electrical Engineering, Tabriz, Iran, May 2002.
107. A.-R. Nazemi, M.-R. Akbarzadeh-T., S. M. Hossini, "Fuzzy-Stochastic Linear Programming in Water Resources Engineering," Proceedings of the 2002 International Conference of North American Fuzzy Information Processing Society, pp.227-232, New Orleans, Illinois, 2002.
108. M.-R. Akbarzadeh-T., K.-J. Emami, and N. Pariz, "Adaptive Discrete-Time Fuzzy Sliding Mode Control for Anti-Lock Braking Systems," Proceedings of the 2002 International Conference of North American Fuzzy Information Processing Society, pp.554-559, New Orleans, Illinois, 2002.
109. M. Sotudeh-Chafi, M. Moavenian, and M.-R. Akbarzadeh-T., "Critical Cases of a CNC Drive System – Fault Diagnosis via a Novel Architecture," Proceedings of the 2002 International Conference of North American Fuzzy Information Processing Society, pp.494-499, New Orleans, Illinois, 2002.
110. M. Sotudeh-C., M. Moavenian, and M.-R. Akbarzadeh-T., "Application of Computational Intelligence Techniques in Design of Fault Detection Systems, Part II: Fuzzy Logic and Soft Computing," (in Farsi) Proceedings of the 10th Annual (International) Mechanical Engineering Conference, pp. 992-999, Tehran, Iran, 2002.

111. M. Sotudeh-C., M.-R. Akbarzadeh-T., and M. Moavenian, "Introducing a FDI system based on Neuro-Fuzzy systems: Application to CNC Drive Systems," (in Farsi) Proceedings of the 10th Annual (International) Mechanical Engineering Conference, pp. 675-682, Tehran, Iran, 2002.
112. M. Sotudeh-C., M. Moavenian, and M.-R. Akbarzadeh-T., "Application of Computational Intelligence Techniques in Design of Fault Detection Systems, Part I: Neural Networks and Genetic Algorithms," (in Farsi) Proceedings of the 10th Annual (International) Mechanical Engineering Conference, pp. 983-991, Tehran, Iran, 2002.
113. M. Moavenian, M. Sotudeh-C., and M.-R. Akbarzadeh-T., "Soft Computing based Modeling in Design of an FDI system for X-axis CNC Drive: Part II. Modeling based on Fuzzy Logic and Neuro-Fuzzy Networks," (in Farsi) Proceedings of the 10th Annual (International) Mechanical Engineering Conference, pp. 899-906, Tehran, Iran, 2002.
114. Gh. Faezian, M.R. Akbarzadeh-T., H. Tabatabaei-Yazdi, and N. Sargolzaei, "A New Variable Structure Control Methodology for Electrical/Mechanical Parameter Estimation of Induction Motor" in Proceedings of the 17th International Power Systems Conference, PSC2002, Tehran, Iran.
115. M.-R. Akbarzadeh-T., H. Rezaei-S., and M. B. Naghibi-S., "A Fuzzy Adaptive Algorithm for Expertness Based Cooperative Learning," Proceedings of the 11th Iranian Conference on Electrical Engineering, pp.596-605, Shiraz, Iran, 2003.
116. M. B. Naghibi-S., M.-R. Akbarzadeh-T., and H. Rajabi-Mashhadi, "Deregulated Power Pools," Proceedings of the 11th Iranian Conference on Electrical Engineering, pp.606-613, Shiraz, Iran, 2003.
117. M. R. Akbarzadeh-T., G. Faezian, H. Tabatabaei-Y., and N. Sargolzaei, "A New Variable Structure Control Methodology for Electrical/Mechanical Parameter Estimation of Induction Motor" in Proceedings of the American Control Conference, pp.4047-4052, ACC2003, Denver, Colorado.
118. A.-R. Nazemi, M.-R. Akbarzadeh-T., S. M. Hossini, "Fuzzy Systems as a Fusion Framework for Describing Nonlinear Flow in Porous Media," Proceedings of the 22nd International Conference of North American Fuzzy Information Processing Society, pp.389-394, Chicago, Illinois, 2003.
119. K. J. Emami and M.-R. Akbarzadeh-T., "Adaptive Discrete-Time Fuzzy Sliding Mode Control for Anti-Lock Braking Systems," Proceedings of the 22nd International Conference of North American Fuzzy Information Processing Society, pp.335-340, Chicago, Illinois, 2003.
120. M.-R. Akbarzadeh-T., I. Mosavat, and S. Abbasi, "Friendship Modeling for Cooperative Co-Evolutionary Fuzzy Systems: A Hybrid GA-GP Algorithm," Proceedings of the 22nd International Conference of North American Fuzzy Information Processing Society, pp.61-66, Chicago, Illinois, 2003.
121. M.-R. Akbarzadeh-T., H. Rezaei-S., and M. B. Naghibi-S., "A Fuzzy Adaptive Algorithm for Expertness Based Cooperative Learning, Application to Herding Problem," Proceedings of the 22nd International Conference of North American Fuzzy Information Processing Society, pp.317-322, Chicago, Illinois, 2003.
122. Alireza Nazemi, Hossein Poorkhadem-N., M.-R. Akbarzadeh-T., and S. M. Hosseini, "Evolutionary Neural Network Modeling for Describing Rainfall-Runoff Process," Proceedings of the Hydrology Days 2003, pp. 224-235, Colorado Springs, Colorado, 2003.
123. H. Mirzaei, A. Akramizadeh, Shahnazi, H. Tabatabaei-Yazdi, and M.-R. Akbarzadeh-T., "An Experimental A150 CRSPLUS Robot Testbed," Proceedings of the 11th Annual Conference of Mechanical Engineering, Vol, 5, pp. 14-18, Mashhad, Iran, May, 2003.
124. A.-R. Nazemi, S. M. Hosseini, M.-R. Akbarzadeh-T., and N. H. Poorkhadem, "Artificial Neural Networks as a Nonlinear Combination Framework for Describing Non-Darcy Flow in

- Porous Media,” Proceedings of the 30th International AHR Congress, pp.873-881, Authen, Thessaloniki, Greece, August 2003.
125. M. Jamshidi, S. Sheikh-Bahaei, J. Kitzinger, P. Sridhar, S. Xia, Y. Wang, J. Liu, T. Song, S. Beatty, U. Dole, E. Dong, P. Swiderski, B. Masefield, E. Tunstel, M. Akbarzadeh, A. El-Osery and M. Fathi, “V-Lab - A Virtual Laboratory for Intelligent Agents,” Paper for *IEEE SMC Newsletter*, May, 2003.
 126. M. Saadatmand and M.-R. Akbarzadeh-T., “A New Constructive Neural Networks for Shortest Path Traveling Salesman Problem,” Proceedings of the Conference on Intelligent Systems, (in Farsi) pp. 236-243, Mashhad, Iran., 14-16 October, 2003.
 127. D. Maleki, S. H. Yaghmaee, M.-R. Akbarzadeh-T., “Artificial Immune System for Network Security,” Proceedings of the Conference on Intelligent Systems, (in Farsi) pp. 339-345, Mashhad, Iran., 14-16 October, 2003.
 128. M. Malboubi, M. Saadatmand, M.-R. Akbarzadeh-T., and M. Khademi, “Design and Implementation of a vision based mobile robot and navigation using a hybrid architecture,” Proceedings of the Conference on Intelligent Systems, (in Farsi) pp. 395-402, Mashhad, Iran., 14-16 October, 2003.
 129. A. Akramizadeh and M.-R. Akbarzadeh-T., “Swarm Intelligence for Modeling Urban Traffic”, Proceedings of the Conference on Intelligent Systems, (in Farsi) pp. 578-585, Mashhad, Iran., 14-16 October, 2003.
 130. A. Akramizadeh, S. Abbasi, and M.-R. Akbarzadeh-T., “Group Behavior Learning in Multiagent Systems: A Way to Artificial Life,” Proceedings of the Conference on Intelligent Systems, (in Farsi) pp. 601-608, Mashhad, Iran., 14-16 October, 2003.
 131. M. Rezaei-Pajand, M.-R. Akbarzadeh-T., and A. Nikdel, “Active Structure Control by Online Earthquake Movement Prediction using Neural Networks,” Proceedings of the Conference on Intelligent Systems, (in Farsi) pp. 651-661, Mashhad, Iran., 14-16 October, 2003.
 132. S. Abbasi and M.-R. Akbarzadeh-T., “Cooperative Evolutionary Fuzzy Control for Manipulator Arm,” in Proceedings of the Twelfth Iranian Conference on Electrical Engineering-Control Engineering, pp. 152-158 (in Farsi), Mashhad, Iran, May 11-13, 2004.
 133. A. Soltani, M.-R. Akbarzadeh-T., and M. Naghibzadeh, “Introducing Helping Ants in AntNet and Implementation on NSFNet,” in Proceedings of the Twelfth Iranian Conference on Electrical Engineering-Computer Engineering, pp. 56-61 (in Farsi), Mashhad, Iran, May 11-13, 2004.
 134. M. B. Naghibi-S. and M.-R. Akbarzadeh-T., “Multi-step Action Selection in Hunter Prey Problem,” in Proceedings of the Twelfth Iranian Conference on Electrical Engineering-Control Engineering, pp. 159-164, Mashhad, Iran, May 11-13, 2004.
 135. A.-R. Nazemi, M.-R. Akbarzadeh-T., S. M. Hosseini, “An Intuitive View to Compare Intelligent Systems,” Proceedings of the 2004 Annual Meeting of North American Fuzzy Information Processing Society, pp. 566-571, Banff, Alberta, Canada, June 28-30, 2004
 136. S. M. Hosseini-Rostami, M.R. Akbarzadeh-T., and S.-J. Sadatai-Rostami, “Evolutionary Fuzzy Real-Time Job-Shop Scheduling,” Proceedings of the 2004 World Automation Congress and Ninth International Symposium on Manufacturing with Applications, Seville, Spain, June 28-July 1, 2004.
 137. S. Abbasi and M.R. Akbarzadeh-T., “Agent-based Cooperative Co-evolution for Fuzzy Systems,” Proceedings of the 2004 World Automation Congress and Fifth International Symposium on Intelligent Automation and Control, Seville, Spain, June 28-July 1, 2004.
 138. M.-B. Naghibi-S. and M.R. Akbarzadeh-T., “Stigmergy for Hunter Prey Problem,” Proceedings of the 2004 World Automation Congress and Fifth International Symposium on Intelligent Automation and Control, Seville, Spain, June 28-July 1, 2004.

139. Y. Mohammadi and M.R. Akbarzadeh-T. and M. Khademi, "Hybrid Fuzzy Task Allocation Algorithm for Multi Agent Systems in Rescue Simulation Environment," Proceedings of the 2004 World Automation Congress and Fifth International Symposium on Intelligent Automation and Control, Seville, Spain, June 28-July 1, 2004.
140. A. Malekzadeh and M.-R. Akbarzadeh-T., "Complex-Valued Adaptive Neuro-Fuzzy Inference System –CANFIS," Proceedings of the 2004 World Automation Congress and Fifth International Symposium on Soft Computing for Industry, Seville, Spain, June 28-July 1, 2004.
141. A. Akramizadeh, M.R. Akbarzadeh-T. and M. Khademi, "Fuzzy Discrete Event System Modeling and Temporal Fuzzy Reasoning in Urban Traffic Control," Proceedings of the 2004 World Automation Congress and Fifth International Symposium on Intelligent Automation and Control, Seville, Spain, June 28-July 1, 2004.
142. M. Hakimi and M.-R. Akbarzadeh-T., "Modeling and Optimization of EDM Process with ANFIS and CBGA," in Proceedings of the Fifth Iranian Conference on Fuzzy Systems, Tehran, Iran, September 2004.
143. A. Akramizadeh, M.-R. Akbarzadeh-T., and M. Khademi, "Fuzzy Discrete Event Supervisory Control Capable of Temporal Reasoning in Urban Traffic Management," in Proceedings of the Fifth Iranian Conference on Fuzzy Systems, Tehran, Iran, September 2004.
144. A. Akramizadeh, M.-R. Akbarzadeh-T., and M. Khademi, "Fuzzy Discrete Event Supervisory Control Capable of Temporal Reasoning in Urban Traffic Management," in Proceedings of the 2004 IEEE Conference on Cybernetics and Intelligent Systems, Singapore, pp. 1357-1361, 1-3 December 2004.
145. Y. Mohammadi, M. Khademi, and M.-R. Akbarzadeh-T., "Digital Hormones for Behavior Implementation in Self-Organizing Fire Agents in Robo-Rescue Simulation Environment," (in Farsi) In Proceedings of the Sixth Conference on Intelligent Systems, pp.364-373, Kerman, Iran, Nov. 2004.
146. M. Davarynezhad, M.-R. Akbarzadeh-T., and A. Akramizadeh, "Design, Simulation and Implementation of an Intelligent Greenhouse with Fuzzy Tools," (in Farsi) In Proceedings of the Sixth Conference on Intelligent Systems, pp.39-45, Kerman, Iran, Nov. 2004.
147. M.-R. Akbarzadeh-T., A. Soltani, and M. Naghibzadeh, "A Novel AntNet-Based Algorithm with Application to NSFNET," Proceedings of the International Conference on Modeling, Simulation and Optimization, Sharjah, UAE, Feb. 2005.
148. A. Karsaz and M.-R. Akbarzadeh-T., "Cooperative Coevolution of Random Connections for Neural Networks," Proceedings of the International Conference on Modeling, Simulation and Optimization, Sharjah, UAE, Feb. 2005.
149. A.-R. Khorsand and M.-R. Akbarzadeh-T., "A Novel Hybrid Fuzzy-GA-NN Algorithm for Large Scale Design Optimization Problems," Proceedings of the International Conference on Modeling, Simulation and Optimization, Sharjah, UAE, Feb. 2005.
150. M. Malboubi, M. Saadatmand, M. Khademi, M.-R. Akbarzadeh-T., "A Fast and Practical Method for Object Detection and Recognition in Mobile Robots with Vision," (in Farsi) Proceedings of the Third Conference on Machine Vision, Image Processing, & Applications (MVIP 2005), Tehran, Iran.
151. M. Saadatmand and M.-R. Akbarzadeh-T., "A New Genetic-NN Algorithm for the Traveling Salesman Problem," (in Farsi) In Proceedings of the Thirteenth Iranian Conference on Electrical Engineering, vol. 1, pp.215-220, Zanjan, Iran, May 2005.
152. A. Karsaz and M.-R. Akbarzadeh-T., "A New Cooperative Co-evolutionary Approach to Neural Networks Structural Optimization," (in Farsi) In Proceedings of the Thirteenth Iranian Conference on Electrical Engineering, vol. 1, pp.227-232, Zanjan, Iran, May 2005.

153. M. R. Zibayi, N. Pariz and M.-R. Akbarzadeh-T., "A Fuzzy Logic Controller for Regulator Problems with Time-Varying Delays and Uncertainties," In Proceedings of the Thirteenth Iranian Conference on Electrical Engineering, vol. 3, pp. 409-415, Zanjan, Iran, May 2005.
154. M.-R. Akbarzadeh-T. and A.-R. Khorsand,, "Multi-objective Meta Level Soft Computing Based Evolutionary Design of Large-Scale Structures," Proceedings of the 2005 World Congress on Fuzzy Logic, Soft Computing and Computational Intelligence, International Fuzzy System Association, pp. 1286-1293, Beijing, China, July 2005.
155. R. Shahnazi, M.-R. Akbarzadeh-T., "Robust PI Adaptive Fuzzy Control for a Class of Uncertain Nonlinear Systems," Proceedings of the 2005 IEEE International Conference on Systems, Man and Cybernetics, pp. 2566-2571, Kona, Hawaii, October 2005.
156. M.-R. Akbarzadeh-T. and R. Shahnazi,, "Direct Adaptive Fuzzy PI Sliding Mode Control for a Class of Uncertain Nonlinear Systems," Proceedings of the 2005 IEEE International Conference on Systems, Man and Cybernetics, pp. 2548-2553, Kona, Hawaii, October 2005.
157. M.-R. Akbarzadeh-T. and A.-R. Khorsand,, "Evolutionary Quantum Algorithms for Structural Design," Proceedings of the 2005 IEEE International Conference on Systems, Man and Cybernetics, pp. 3077-3081, Kona, Hawaii, October 2005.
158. A.-R. Khorsand and M.-R. Akbarzadeh-T., "Quantum Gate Optimization in a Meta-Level Genetic Quantum Algorithm," Proceedings of the 2005 IEEE International Conference on Systems, Man and Cybernetics, pp. 3055-3060, Kona, Hawaii, October 2005.
159. M.-R. Akbarzadeh-T., "On Evolution of Evolution," 2005 Workshop on Systems and Intelligent Control, Hawaii, October 2005.
160. A. Kiani-Bajestani, Y. Mohammadian-Roshan, N. Pariz, and M.-R. Akbarzadeh-T., "Chaotic Time Series Prediction by hybrid Wavelet-Adaptive Fuzzy Neural Networks," 2006 Iranian Conference on Electrical Engineering, Tehran, Iran, May 2006.
161. A. Kiani and M.-R. Akbarzadeh-T., "Automatic Text Summarization Using Hybrid Fuzzy GA-GP," Proceedings of the 2006 World Congress on Computational Intelligence, Vancouver, Canada, July 2006.
162. A.-R. Khorsand and M.-R. Akbarzadeh-T., "Genetic Quantum Algorithms for Voltage and Pattern Design of Piezoelectric Actuator," Proceedings of the 2006 World Congress on Computational Intelligence, Vancouver, Canada, July 2006.
163. E. Gharavol, M. Khademi, and M.-R. Akbarzadeh-T., "A New Variable Bit Rate (VBR) Video Traffic Model Based on Fuzzy Systems Implemented Using Generalized Regression Neural Networks (GRNN)," Proceedings of the 2006 World Congress on Computational Intelligence, Vancouver Canada, July 2006.
164. A. Kiani-B , M.-R. Akbarzadeh-T., M. H. Moeinzadeh, "Intelligent Extractive Text Summarization Using Fuzzy Inference Systems", Proceedings of the IEEE International Conference on Engineering of Intelligent Systems (ICEIS'2006), pp. 149-152, Islamabad, Pakistan, April 22-23 2006.
165. A M. Fard, M.-R. Akbarzadeh-T, F. Varasteh, "A New Genetic Algorithm Approach for Secure JPEG Steganography", Proceedings of the 2006 IEEE International Conference on Engineering of Intelligent Systems (ICEIS'2006), pp. 1-6, Islamabad, Pakistan, April 22-23 2006.
166. A. Milani Fard, H. Akbari, M.-R. Akbarzadeh -T, "Fuzzy Adaptive Resonance Theory for Content-Based Data Retrieval", IEEE International Conference on Innovations in Information Technology (IIT'06), Dubai, United Arab Emirates, 19-21 Nov 2006.
167. A. Akramizadeh, A. Afshar, and M.-R. Akbarzadeh-T., "Decentralized Temporal Fuzzy Discrete Event Control in Urban Traffic Management," in proceedings of the IEEE International Conference on Industrial Control, pp. 2663-2668, 15-17 Dec. 2006.

168. F.-M. Kazemi, H. Rajabi-Mashhadi, S. Rahati-Quchani, M.-R. Akbarzadeh-T., K. Rahbar, "Fast Image Segmentation using Hopfield Fuzzy Neural Networks," 4th Iranian Conference on Machine Vision and Image Processing, Mashhad, Iran, February 2007.
169. M.-R. Akbarzadeh-T. & Y. Mohammadian-R., "Fuzzy Parameters for Handwritten Character Recognition using Neural Networks," 4th Iranian Conference on Machine Vision and Image Processing, Mashhad, Iran, February 2007.
170. M. Mohebbi, M.-R. Akbarzadeh-T., F. Shahidi, and M.-R. Poorshahabi, "Application of Computer Vision Systems and Neural Networks for Shrimp Dehydration Prediction," 4th Iranian Conference on Machine Vision and Image Processing, Mashhad, Iran, February 2007.
171. F. M. Kazemi, S. Samadi, H.-R. Poorreza, and M.-R. Akbarzadeh-T., "Vehicle Recognition Using Curvelet Transform and SVM," in Proceedings of the 4th International Conference on Information Technology: New Generations (ITNG2007), IEEE, Nevada, USA, 2007.
172. F. M. Kazemi, S. Samadi, H.-R. Poorreza, and M.-R. Akbarzadeh-T., "Vehicle Recognition Based on Fourier, Wavelet and Curvelet Transforms – a Comparative Study," in Proceedings of the 4th International Conference on Information Technology: New Generations (ITNG2007), IEEE, Nevada, USA, 2007.
173. F. M. Kazemi, M.-R. Akbarzadeh-T., and H.-R. Poorreza, "Vehicle Detection Using a Multi-agent Vision-based System," in Proceedings of the International Conference on Industrial Electronics, Technology, and Automation (IETA07).
174. S. Hashemi-Soodmand, A. Jafari, M.-R. Akbarzadeh-T., and M.-R. Azarpajoo, "Emboli/Artifact Recognition using Agent Based Fuzzy Genetic Classifier Systems," Thirteenth Iranian Conference on Biomedical Engineering, February 21-22, 2007, Tehran, Iran.
175. M. E. Golmakani, K. Kamali, M.-R. Akbarzadeh-T., M. Kadkhodayan, M. Davarynejad, "Application of a Hybrid GA-BP Optimized Neural Network for Springback Estimation in Sheet Metal Forming Process," in Proceedings of the First Joint Congress on Fuzzy and Intelligent Systems, Mashhad, Iran, 29-31 Aug, 2007.
176. M. Tayarani and M.-R. Akbarzadeh-T., "Initializing Population in Quantum GA by Divide and Conquer," in Proceedings of the First Joint Congress on Fuzzy and Intelligent Systems, Mashhad, Iran, 29-31 Aug, 2007.
177. M. Tayarani and M.-R. Akbarzadeh-T. "Simulated Annealing for Improved Search in Quantum GA," in Proceedings of the First Joint Congress on Fuzzy and Intelligent Systems, Mashhad, Iran, 29-31 Aug, 2007.
178. M. Vafaei-Jahan and M.-R. Akbarzadeh-T. "Portfolio Selection of Stocks by Spin Glass Model," in Proceedings of the First Joint Congress on Fuzzy and Intelligent Systems, Mashhad, Iran, 29-31 Aug, 2007.
179. A. Khajekaramodin, H. Haji-Kazemi, A. Rowhanimanesh, and M.-R. Akbarzadeh-T. "Semi-Active Control of Structures Using Neuro-Inverse Model of MR Dampers," in Proceedings of the First Joint Congress on Fuzzy and Intelligent Systems, Mashhad, Iran, 29-31 Aug, 2007.
180. Alireza Rowhanimanesh, A. Khajekaramodin, M.-R. Akbarzadeh, "Evolutionary Constrained Design of Seismically Excited Buildings, Part I: Actuators Placement," in Proceedings of the First Joint Congress on Fuzzy and Intelligent Systems, Mashhad, Iran, 29-31 Aug, 2007.
181. M. Mohebi, M.-R. Akbarzadeh-T., F. Shahidi, and M. Moosavi, "Shrimp Dehydration by Intelligent Systems," in Proceedings of the First Joint Congress on Fuzzy and Intelligent Systems, Mashhad, Iran, 29-31 Aug, 2007.

182. S. Hasanzadeh, A.-R. Akbarzadeh-T., and M.-R. Akbarzadeh-T., "Fuzzy Meta-Level Control of Snake Robots," in Proceedings of the First Joint Congress on Fuzzy and Intelligent Systems, Mashhad, Iran, 29-31 Aug, 2007.
183. Z. Dastgheib, M. Tavakoli-K., H. Rajabi-Mashhad, and M.-R. Akbarzadeh-T., "GA-PSO Hybrid Approach for Detecting QRS Complex in ECG Signals," in Proceedings of the First Joint Congress on Fuzzy and Intelligent Systems, Mashhad, Iran, 29-31 Aug, 2007.
184. M. Davarynejad, M.-R. Akbarzadeh-T., N. Pariz, and A.-R. Khorsand, "Adaptive Fuzzy Fitness Granulation in Structural Optimization Problems," 2007 IEEE Multi-Conference on Systems and Control (MSC), Oct.1-3, Singapore.
185. M. Davarynejad, M.-R. Akbarzadeh-T., and N. Pariz, "A Novel General Framework for Evolutionary Optimization: Adaptive Fuzzy Fitness Granulation," 2007 IEEE International Conference on Evolutionary Computations, Sept. 28-30, Singapore.
186. M. Sotudeh-Chafi, M. Moavenian, M.-R. Akbarzadeh, and M.R. Ziejewski, "Agent Based Soft Computing Approach for Component Fault Detection and Isolation of CNC X-axis Drive System," in Proceedings of the 2007 ASME International Mechanical Engineering Congress and Exposition, Nov. 11-15, Seattle, USA.
187. A. Milani-Fard, R. Ghaemi, M.-R. Akbarzadeh-T., and H. Akbari, "Kavosh: An Intelligent Neuro-Fuzzy Search Engine," Seventh International Conference on Intelligent Design and Applications, p.597-602, Oct. 22-24, 2007, Rio de Janeiro, Brazil.
188. A. Najafi-A. and M.-R. Akbarzadeh-T., "Design a Real-time Preprocessing Algorithm Based on a Co-Evolutionary Fuzzy System," in Proceedings of the 2007 IEEE International Conference on Intelligent Computer Communication and Processing, pp. 297-303, Sept. 6-8, 2007.
189. M. A. Rigi, A. Milani, M.-R. Akbarzadeh-T., "An Evolutionary Data Mining Model for Fuzzy Concept Extraction," in proceedings of the 4th International Conference on Innovations in Information Technology, pp. 257-261, 18-20 Nov. 2007.
190. M. Ebrahimi, R. Monsefi, S. Ildarabadi, M.-R. Akbarzadeh-T., and M. Habini, "License Plate Location Based on Multi Agent Systems," 11th IEEE International Conference on Intelligent Engineering Systems, pp.155-159, June 29-July 1, 2007.
191. A. J. Sengstacken, D. A. DeLaurentis, and M.-R. Akbarzadeh-T., "Fuzzy Logic Control for Shared Autonomy in Automotive Swarm Environment," IEEE International Conference on Systems, Man and Cybernetics, pp.196-201, Oct 7-10, 2007.
192. M. Ebrahimi, R. Monsefi, M.-R. Akbarzadeh-T., and S. Ildarabadi, "A Multiagent System for License Plate Recognition," in proceedings of the Third Conference on Information, Knowledge and Technology, Mashhad, Iran, 26-29 Dec. 2007.
193. M.-R. Akbarzadeh-T., S. Setayeshi, S. Shamsirband, R. Ghaffari, N. Mohsenian-k, "Signal Traffic Control with Soft Computing Techniques," in proceedings of the Third Conference on Information, Knowledge and Technology, Mashhad, Iran, 26-29 Dec. 2007.
194. H. Kordjazi, Alireza Akbarzadeh-T., and M.-R. Akbarzadeh-T., "FL-GA Method for Optimization of 3PRR Planar Parallel Manipulator for a Prescribed Workspace," Proceedings of the Iranian Conference on Manufacturing Engineering (ICME2009), Birjand, Iran.
195. A. Valizadeh and M.-R. Akbarzadeh-T., "Task Cooperation for Multi-Robot Systems," in proceedings of the 2nd Joint Congress on Fuzzy and Intelligent Systems, Tehran, Iran, 2008.
196. H. T. Yazdi, A. Milanifard, M.-R. Akbarzadeh-T., "Cooperative Criminal Face Recognition in Distributed Web Environment," Accepted for publication in the proceedings of The Sixth ACS/IEEE International Conference on Computer Systems and Applications (AICCSA-08), pp. 524-529, April 1-4, Doha, Qatar, 2008.

197. R. Ensafi, S. Dehghanzadeh, M.-R. Akbarzadeh-T., "Optimizing Fuzzy K-Means for Network Anomaly Detection Using PSO," 2008 IEEE/ACS International Conference on Computer Systems and Applications (AICCSA'08), pp.686-693, 2008.
198. M. Yaghoubi, M.-R. Akbarzadeh-T., and M. Bahrepour, "A Novel Fuzzy Time Series Approach for Foreign Exchange Rate (FOREX) Prediction," in Persian (Poster), Thirteenth National Computer Conference, Kish Island, Iran, March 9-11, 2008.
199. M. Vafaei-Jahan and M.-R. Akbarzadeh-T., "Behavior Optimization of Spin Glasses using Learning Automata for Optimal Stock Portfolio Selection," in Persian, Thirteenth National Computer Conference, Kish Island, Iran, March 9-11, 2008.
200. S. Safari-Aman, M. Naghibzadeh, M.-R. Akbarzadeh-T., "Ant Colony Based Distributed Routing for Computer Networks," in Persian (Poster), Thirteenth National Computer Conference, Kish Island, Iran, March 9-11, 2008.
201. Farhad Mohammad-Kazemi, Mohammad-R. Akbarzadeh-T., Saeid Rahati, and Habib Rajabi, "Fast Image Segmentation using C-means based Fuzzy Hopfield Neural Networks," in proceedings of the 2008 Canadian Conference on Electrical and Computer Engineering (CCECE2008), 4-7 May 2008, pp. 1855-1860.
202. M. Tayarani and M.-R. Akbarzadeh-T., "Re-population in Quantum GA for improved Population Diversity," (in Persian) 16th Iranian Conference on Electrical Engineering, Tehran, Iran, May 13-15, 2008.
203. M. Davarynejad, M.-R. Akbarzadeh-T., N. Pariz, M.E. Golmakani, and A.-R. Khorsand, "Fuzzy Surrogates in Fitness Function Approximation for Evolutionary Structure Design," 16th Iranian Conference on Electrical Engineering, Tehran, Iran, May 13-15, 2008.
204. Saeid Safari-Aman, M.-R. Akbarzadeh-T., M. Naghibzadeh, and R. Norasteh, "Analysis of AntNet Parameters," 16th Iranian Conference on Electrical Engineering, Tehran, Iran, May 13-15, 2008.
205. J. Sanaei Moghadam-Sabzevar, Alireza Akbarzadeh-T., A.-A. Akbari, and M.-R. Akbarzadeh-T., "Soft Computing for Modeling and Optimization of Robotic Welding," 16th Iranian Conference on Electrical Engineering, Tehran, Iran, May 13-15, 2008.
206. S. Saffari-A., M.-R. Akbarzadeh-T., and M. Naghibzadeh, "A Novel Approach to Distributed Routing by Super-AntNet," In Proceedings of the IEEE Congress on Evolutionary Computation (CEC 2008) as part of the IEEE 2008 World Congress on Computational Intelligence, pp. 2151-2157, Hong Kong, Hong Kong, June 1-6, 2008.
207. M. Davarynejad, M.-R. Akbarzadeh-T., C. A. Coello Coello, "Auto-Tuning Fuzzy Granulation for Evolutionary Optimization," In Proceedings of the IEEE Congress on Evolutionary Computation (CEC 2008) as part of the IEEE 2008 World Congress on Computational Intelligence, pp. 3573-3580, Hong Kong, Hong Kong, June 1-6, 2008.
208. M.-H. Tayarani and M.-R. Akbarzadeh-T., "Magnetic Optimization Algorithms, a New Synthesis," In Proceedings of the IEEE Congress on Evolutionary Computation (CEC 2008), as part of the IEEE 2008 World Congress on Computational Intelligence, pp. 2664-2669, Hong Kong, Hong Kong, June 1-6, 2008.
209. M.-H. Tayarani and M.-R. Akbarzadeh-T., "A Cellular Structure and Diversity Preserving Operator in Quantum Evolutionary Algorithms," In Proceedings of the IEEE Congress on Evolutionary Computation (CEC 2008), as part of the IEEE 2008 World Congress on Computational Intelligence, pp. 2670-2675, Hong Kong, Hong Kong, June 1-6, 2008.
210. M. Ebrahimi, S. Ildarabadi, R. Monsefi, M.-R. Akbarzadeh-T., "License Plate Location Recognition based on Multiagent Systems," In proceedings of the 5th Iranian Conference on Machine Vision and Image Processing, pp. 350-355, University of Tabriz, Nov. 4-6, 2008.
211. E. Mahdipoor, M. Bahrepour, F. Mohammad-Kazemi, and M.-R. Akbarzadeh-T., "A New Approach to Combining Genetic Algorithms and Simulated Annealing," in Proceedings

- of the 9th Conference on Intelligent Systems and 2nd Joint Congress on Fuzzy and Intelligent Systems, Tehran, Iran, Oct. 28-30, 2008.
212. M. Bahrepor, M.-R. Akbarzadeh-T., S. Ziaei, and S. Sadat-naghbi, "A Novel Approach to Solving Permutation Optimization Problems using PSO," in Proceedings of the 9th Conference on Intelligent Systems and 2nd Joint Congress on Fuzzy and Intelligent Systems, Tehran, Iran, Oct. 28-30, 2008.
 213. S. Saffari-Aman, M.-R. Akbarzadeh-T., S. Shamsirband, "Load Balancing in Switching Network with Multi-ACO," in Proceedings of the 9th Conference on Intelligent Systems and 2nd Joint Congress on Fuzzy and Intelligent Systems, Tehran, Iran, Oct. 28-30, 2008.
 214. M.-H. Tayarani and M.-R. Akbarzadeh-T., "Improvement of the Performance of QEA with Novel Structures," in Proceedings of the 9th Conference on Intelligent Systems and 2nd Joint Congress on Fuzzy and Intelligent Systems, Tehran, Iran, Oct. 28-30, 2008.
 215. M. Vafaei-Jahan and M.-R. Akbarzadeh-T., "Extremal Optimization or Learning Automata? A Method to Increase Spin Performance in Portfolio Selection Problem," in Proceedings of the 9th Conference on Intelligent Systems and 2nd Joint Congress on Fuzzy and Intelligent Systems, Tehran, Iran, Oct. 28-30, 2008.
 216. S. Khajoui-N., A. Najafi-A., M.-R. Akbarzadeh-T., M.-H. Moeinzadeh, "A Coevolutionary Fuzzy System for Real-Time Signal Pre-Processing", in proceedings of the 2nd Asia International Conference on Modelling & Simulation, pp.620-624, 2008.
 217. S. Mahdiar Bameshki and M.-R. Akbarzadeh-T., "ANFIS and GA-NN Hybrid Combination for Graduation of Conciousness Level," in Proceedings of the 9th Conference on Intelligent Systems and 2nd Joint Congress on Fuzzy and Intelligent Systems, Tehran, Iran, Oct. 28-30, 2008.
 218. M.-R. Akbarzadeh-T., H. Tabatabaei-Y., M. Bahrepor, S. Seyedi, "Traffic Control using Fuzzy Logic with Expert Knowledge," in Proceedings of the 9th Conference on Intelligent Systems and 2nd Joint Congress on Fuzzy and Intelligent Systems, Tehran, Iran, Oct. 28-30, 2008.
 219. Z. Soozanchi, M. Yaghoubi, M.-R. Akbarzadeh-T., and H.-R. Pourreza, "Number Detection/Recognition by a Fuzzy System," In proceedings of the 2nd National Conference on Computer/Electrical and IT Engineering (CEIC'09), SAMA, Hamedan, Feb 19, 2009.
 220. E. Lotfi, M.-R. Akbarzadeh-T., H.-R. Pourreza, M. Yaghoubi, and F. Dehgharn, "A Hybrid Method for Soccer Video Events Retrieval Using Fuzzy Systems," in Proceedings of the 2009 International Fuzzy Systems Conference, Lisbon, Portugal, 2009.
 221. A. Poorhossein and M.-R. Akbarzadeh-T., "Agent Coordination and Interaction by a Self Organizing Neural network and Genetic Algorithm," 17th Iranian Conference on Electrical Engineering (Computer), pp.190-195, May 12-14, 2009.
 222. E. Afarandeh, M. Habibipour, M.-R. Akbarzadeh-T., and M. Yaghoobi, "Skin Recognition by Evolutionary Neural Networks," 17th Iranian Conference on Electrical Engineering, Vol. 8 (Computer), pp.274-279, May 12-14, 2009.
 223. K. Etmnani, M.-R. Akbarzadeh-T., and N. Raeji Yaneshsari, "Web Usage Mining: User's Navigational Patters Extraction from Weblogs using Ant-based Clustering Method," in Proceedings of the 2009 International Fuzzy Systems Conference, Lisbon, Portugal, 2009.
 224. F. Tatari and M.-R. Akbarzadeh-T., "Intensity Assessment of Pedestrian Collisions in City of Mashhad based on Fuzzy Probabilities, in Proceedings of the 2009 International Fuzzy Systems Conference, Lisbon, Portugal, 2009.
 225. H. Modaghegh, H. Khosravi-R., and M.-R. Akbarzadeh-T., "A New Adjustable Blind Watermarking Method Based on GA and SVD," in Proceedings of the 6th International Conference on Innovations in Information Technology, pp.6-10, Al Ain, UAE, December 15-17, 2009.

226. Mostafa Ghaemi and Mohammad-R. Akbarzadeh-T., "ADAPTIVE INTERVAL TYPE-2 FUZZY SLIDING MODE CONTROL FOR A CLASS OF UNCERTAIN NONLINEAR SYSTEMS ", "10th Iranian Conference on Fuzzy Systems, Shahid Beheshti University, July 13-15, 2010",
227. Toktam Ghafarian,Hossein Deldari,M.R.Akbarzadeh –T., "Multiprocessor Scheduling with Evolving Cellular Automata Based on Ant Colony Optimization", Proceedings of the 14th International CSI Computer Conference (CSICC'09) , 2009.
228. Zohreh Soozanchi-K, Mahdi Yaghobi,M.R.Akbarzadeh-T, Maryam Habibipour., "Modeling and Forecasting Short-term Electricity Load based on Multi Adaptive Neural-Fuzzy Inference System by Using Temperature", in proceedings of the 2nd International Conference on Signal Processing Systems (ICSPS), pp. (V3)18-22, 2010.
229. Gohar Vahdati,Habib Khodadadi, Mahdi Yaghoobi,Mohammad-R. Akbarzadeh-T., "Fractal Image Compression Based on Spatial Correlation And Hybrid Particle Swarm Optimization With Genetic Algorithm", in proceedings of the 2nd International Conference on Software Technology and Engineering(ICSTE), pp. (V2)185-189, 2010.
230. Somayeh Cheshomi, Saeed Rahati-Q, and Mohammad-R Akbarzadeh-T., "Hybrid of Chaos Optimization and Baum-Welch Algorithms for HMM Training in Continuous Speech Recognition," International Conference on Intelligent Control and Information Processing August 13-15, 2010 - Dalian, China
231. Farzaneh Tatari, Mohammad-R. Akbarzadeh-T, Majid Mazouchi,Gelareh Javid., "Agent-based Centralized Fuzzy Kalman Filtering for Uncertain Stochastic Estimation," IEEE'2010
232. Soheila Ashkezari-T, Mohammad-R. Akbarzadeh-T., "Fuzzy-Bayesian Network Approach to Genre-based Recommender Systems" ,"IEEE'2010
233. Somayeh Cheshomi,Saeed Rahati-Q,Mohammah-R Akbarzadeh-T., "HMM Training by a Hybrid of Chaos Optimization and Baum-Welch Algorithms for Discrete Speech Recognition,"IEEE'2010
234. Maryam Vatankhah, Mohammad-R. Akbarzadeh-T, Ali Moghimi., "An Intelligent System for Diagnosing Sleep Stages U sing Wavelet Coefficients," 2010 IEEE World Congress on Computational Intelligence, Barcelona, Spain.
235. Iman Kamkar, Mohammad-R. Akbarzadeh-T, Mahdi Yaghoobi., "Intelligent Water Drops a new optimization algorithm for solving the Vehicle Routing Problem," 2010 IEEE World Congress on Computational Intelligence, pp.4142-4146, Barcelona, Spain.
236. Zohreh Souzanchi-K,Hadi Fanaee-T,Mahdi Yaghoubi, Mohammad-R. Akbarzadeh-T., "A Multi Adaptive Neuro Fuzzy Inference System for Short Term Load Forecasting by using Previous Day Features, 2010 IEEE World Congress on Computational Intelligence, Barcelona, Spain."IEEE
237. Iman Kamkar, Mohammad-R. Akbarzadeh-T, "Multiobjective Cellular Genetic Algorithm with Adaptive Fuzzy Fitness Granulation," 2010 IEEE World Congress on Computational Intelligence, pp.4147-4153, Barcelona, Spain.
238. M. Ghaemi and M.-R. Akbarzadeh-T., "Adaptive Interval Type-2 Fuzzy Sliding Mode Control for a Class of Uncertain Nonlinear Systems," in proceedings of the 10th Iranian Conference on Fuzzy Systems, Shahid Beheshti University, pp.368-375, May 13-15, 2010.
239. H.-R. Setoodeh, M.-R. Akbarzadeh-T., and M. Teshnehlab, "A Human-Cognitive Approach to Text Summarization by Fuzzy Logic," (in Persian) in proceedings of the 10th Iranian Conference on Fuzzy Systems, Shahid Beheshti University, pp.166-171, May 13-15, 2010.
240. M. Danesh, M.-H. Yaghmaee-M., and M.-R. Akbarzadeh-T., "Hybrid PSO-Harmonic Means for Data Clustering," (in Persian) in proceedings of the 18th Iranian Conference on Electrical Engineering, pp.2133-2138 , Isfahan University of Technology, May 11-1, 2010.

241. M. Vatankhah, M.-R. Akbarzadeh-T., A. Moghimi, and V. Asadpour, "Measuring Pain Level by EEG," (in Persian) in proceedings of the 18th Iranian Conference on Electrical Engineering, pp.2133-2138, Isfahan University of Technology, May 11-1, 2010.
242. H.-R. Setoodeh, M.-R. Akbarzadeh-T., and M. Teshnehlab, "A Human-Cognitive Approach to Text Summarization," (in Persian) in proceedings of the 18th Iranian Conference on Electrical Engineering, Isfahan University of Technology, pp.2266-2270, May 13-15, 2010.
243. Gohar Vahdati, Mahdi Yaghoobi, Mohammad-R. Akbarzadeh-T., "Fractal Image Compression Based on Spatial Correlation And Chaotic Particle Swarm Optimization", in proceedings of the 10th International Conference on Hybrid Intelligent Systems, pp.131-134, 2010.
244. I. Kamkar, m. Poostchi, and M.-R. Akbarzadeh-T., "A Cellular Genetic Algorithm for Solving the Vehicle Routing Problem with Time Windows," in Soft Computing in Industrial Applications: Algorithms, Integration, and Success Stories, pp.263-270, Editors: X. Z. Gao, et. al., Springer—Verlag Berlin, Heidelberg, 2010.
245. M. Baradaran-K., S. Kazem Shekofteh, S. Toosizadeh, and M.-R. Akbarzadeh-T., "Exploiting Fuzzy Approximator to Head Pose Estimation," Conference on Signal Processing Algorithms, Architectures, and Applications Conference, 2010.
246. G. Vahdati, M. Yaghoobi, and M.-R. Akbarzadeh-T., "Fractal Image Compression Based on Particle Swarm Optimization and Chaos Searching," International Conference on Computational Intelligence and Communication Networks, 2010.
247. Y. Forghani, H. Sadoghi-Y., R. Sigari-T., and M.-R. Akbarzadeh-T., "Fuzzy Support Vector Regression," International eConference on Computer and Knowledge Engineering (ICCCKE2011), Oct 21-22, 2011.
248. V. Aghighi, M.-R. Akbarzadeh-T., M. Yaghoobi, and H.-R. Pourreza, "Adaptive Edge Detection Based on Interval-Valued Fuzzy Sets," 7th Iranian Conf. on Machine Vision and Image Processing, 2011.
249. S. Khakmardan, H. Poostchi, and M.-R. Akbarzadeh-T., "Solving traveling Salesman Problem by a Hybrid Combination of PSO and Extremal Optimization," Proceedings of the IEEE International Joint Conference on Neural Networks, San Jose, CA, 2011.
250. F. Mokhayeri and M.-R. Akbarzadeh-T., "A Novel Facial Feature Extraction Method based on ICM Network for Affective Recognition," Proceedings of the IEEE International Joint Conference on Neural Networks, San Jose, CA, 2011.
251. F. Mokhayeri and M.-R. Akbarzadeh-T., "Mental Stress Detection based on Soft Computing Techniques," IEEE International Conference on Bioinformatics and Biomedicine, 2011.
252. F. Mokhayeri, S. Toosizadeh, M.-R. Akbarzadeh-T., and F. Ghasemifard-R., "A Novel Method for Pupile Diameter Measurement based on Fuzzy Techniques," IEEE International Conference on Granular Computing, 2011.
253. F. Mokhayeri, S. Toosizadeh, and M.-R. Akbarzadeh-T., "A Novel Approach for Pupile Diameter Measurement Based on Soft Computing Techniques," in Proceedings of the 7th Iranian Conference on Machine Vision and Image Processing (MVIP2011), 2011.
254. A. Ghazikhani, M.-R. Akbarzadeh-T., and R. Monsefi, "Genetic Regulatory Network Inference Using Recurrent Neural Networks Trained by a Multiagent System," International eConference on Computer and Knowledge Engineering (ICCCKE2011), Oct 21-22, 2011.
255. M. Gharejanloo, M. Vafaei-J., M.-R. Akbarzadeh-T., and M. Nosratabadi, "Workshop Scheduling by Extremal Optimization," Conference on Chaos, Fractals and Complex Systems, 2011.

256. A. Zarei, M.-R. Akbarzadeh-T., M. Yaghoobi, and M. Gharejanloo, "Mutliobjective Routing in Random Networks by a Hybrid Chaotic Artificial Immune System," Conference on Chaos, Fractals and Complex Systems, 2011.
257. E. Lotfi and M.-R. Akbarzadeh-T., "Chaotic Time Series Prediction Based on Emotional Learning Fuzzy Model," Conference on Chaos, Fractals and Complex Systems, 2011.
258. Z. Davarzani, M. H. Yaghmaee-M., and M.-R. Akbarzadeh-T., "TDMA Scheduling in Wireless Sensor Network Using Artificial Immune System," Advances in Intelligent and Soft Computing, 2011.
259. Z. Davarzani and M.-R. Akbarzadeh-T., "Flexible Workshop Scheduling by Artificial Immune Systems," 16th National Conference on Computer, 2011.
260. Z. Davarzani, M. Ziari, and M.-R. Akbarzadeh-T., "Fuzzy Job-Shop Scheduling Problem with Genetic Algorithms," 10th Iranina Conference on Fuzzy Systems, 2011.
261. M. Gharejanloo, M. Vafaei-J., M.-R. Akbarzadeh-T., and M. Nosratabadi, "Extremal Optimization for Solving Job Shop Scheduling Problem," International eConference on Computer and Knowledge Engineering (ICCKE2011), Oct 21-22, 2011.
262. F. Ghadiri, M.-R. Akbarzadeh-T., and S. Hadadan, "Vessel Segmentation Based on Sobel Operator and Fuzzy Reasonng," International eConference on Computer and Knowledge Engineering (ICCKE2011), Oct 21-22, 2011.
263. G. Javid, M.-R. Akbarzadeh-T., A.-R. Akbarzadeh-T., S. N. Nabavi, "Trajectory Tracking of 3-PRR Parallel Manipulator with PI Adaptive Fuzzy Terminal Sliding Mode Controller" International eConference on Computer and Knowledge Engineering (ICCKE2011), Oct 21-22, 2011.
264. A. Yoosefi, S.-M. Hosseini, and M.-R. Akbarzadeh-T., "Uncertainty Analysis of Water Level Profile by Fuzzy Computation," 9th International Congress on Civil Engineering, Isfahan, Iran, 2011.
265. E. Lotfi and M.-R. Akbarzadeh-T., "Supervised Brain Emotional Learning," IEEE World Congress on Computational Intelligence, Brisbane, Australia, 2012.
266. D. Yazdani, M.-R. Akbarzadeh-T., B. Nasiri, and M.-R. Meybodi, "A New Artificial Fish Swarm Algorithm for Dynamic Optimization Problems," IEEE World Congress on Computational Intelligence, Bisbane, Australia, 2012.
267. M. Jalaeian, M.-R. Akbarzadeh-T., A.-R. Akbarzadeh., and m. Ghaemi, "A Dynamic Growing Fuzzy-Neuro Controller, Application to a 3PSP Parallel Robot," IEEE World Congress on Computational Intelligence, Brisbane, Australia, 2012.