

CURRICULUM VITAE

- 1. Name and Surname** RAHIB ABIYEV
- 2. Date of Birth** January 8, 1966
- 3. Profession** Prof.Dr.

4. Education

Degree	Specialty	University	Year
MSc.	Computer-aided control system	Azerbaijan State Oil Academy	1989
Ph.D.	Computer-aided control system	Azerbaijan State Oil Academy	1997

5. Academic titles

Professor	Director of Applied Artificial Intelligence Research Centre	Near East University	2002-present
Professor	Chair of Computer Engineering Department Intelligence Research Centre, Director	Near East University	2009-2014
Assoc. Prof.	Deputy-chair of Computer Engineering Department Founder and Director of Applied Artificial Intelligence Research Centre(AAIRC)	Near East University	2002-2009
Assist. Prof.	Computer Engineering Department	Near East University	1999-2002
Assist. Prof.	Computer-aided Control System Department	Azerbaijan State Oil Academy	1997-1999
Research assist.	Research laboratory "Industrial Intelligent Control Systems"	Azerbaijan State Oil Academy	1990-1997

6. Master / Ph.D. Theses Supervision:

6.1. Master Thesis:

1. Muhammad Khairi. Development of fuzzy controllers. (2001)
2. Metin Bilin. Quality control using fuzzy logic in flexible manufacturing system. (2002)
3. Marwan Al-Akhras. Neuro-fuzzy System for Modeling of Nonlinear Processes. (2003)
4. Hussam E.Hamrawi. Identification of Fuzzy Systems. (2003)
5. Omar Saeed. Development of Voice Interactive System for Bank Transaction (2003)
6. Nidal Meshal. Cryptography and Security Over Network Using Data Encryption Standard (2003)
7. Ekatrina Gerasimova. Analysis of Forecasting Models and Time-Series Modeling of Network Traffic (2004)
8. Qais Albeni. Arabic Character Recognition Using Neural Network (2005)
9. Filiz Al-Shanableh. Optimal Control of Plant Parameters Using Neural System (2005)
10. Kadime Altungul. Expert System for Medical Diagnosis of Abdominal Diseases (2005)
11. Mehmet Gogebakan. Development of Neural Control System. (2005)
12. Shadi Jundy. Network Traffic Optimization. (2005)
13. Raed M,Khidar. Signature Recognition Using Neural Network.(2006).
14. Esraa Alqaralleh. Path Tracking and Navigation by Mobile Robot.(2007).
15. Ayman Afaneh. Fuzzy Navigation of Mobile Robot .(2007).
16. Saed Yakoub. Neural System for Equalization of Channel Distortions (2007)

17. Koray Altunkaya. Iris Recognition Using Neural Network (2007)
18. Bugra Demircioglu. Text Recognition Using Neural Network (2007)
19. Ramiz Salama. Neural Network for Fingerprint recognition (2008)
20. Anis Oztekin. Wavelet Neural Network for Prediction Water Consumption and Airline Passengers (2010)
21. Rifat Dover. Mobile Robot Navigation in Uncertain 3-D Environments (2010)
22. Dana Dogramaci. Image Compression using Neural and Wavelet Technologies. (2012)
23. Hafzullah İş. Social Signal Rank System Search Engine Based Business Networking Portal (2012)
24. Huseyin Guney. Early Detection of Breast Cancer using Support Vector Machine. (2013)
25. Selin Uzelaltinbulat. Biometric Retina Identification Using Neural Networks. (2013)
26. Huseyin Mahammad. Design of Isolated Words Speech Recognition System. (2013)
27. Wameedh Raad Fathel. Fingerprint Recognition Using Principal Component Analysis. (2014)
28. Rami Mustafa. Facial Feature Extraction Techniques for Face Recognition. (2014)
29. Sipan Mohammmd Hameed. Intelligent System for Cardiac Arrhythmia Classification (2014)
30. Awad J.A.Ahmed. Handwritten Text Recognition Using Neural Networks (2014)
31. Abdulkader Helwan. Intelligent Brest Cancer Identification System. (2015)
32. Murat Aslan. Vision based obstacle detection using clustering algorithms
33. Nurullah Akkaya. Bheviour-tree based control of holonomic robots

6.2. PhD. Thesis:

1. Mustafa Menekay. Fuzzy Portfolio Selection Using Genetic Algorithm. (2006)
2. Tayser Al-Shanableh. Neuro-Fuzzy System for Equalization of Channel Distortion. (2007)
3. Besime Erin. Fuzzy Navigation of Mobile Robot in Uncertain Environment (2011)
4. Mustafa Tunay. Evolutionary Search Algorithm Based on Hypercube Optimization (2015)
5. Kemal Kılıc. Image Texture Classification using Fractal Geometry (ongoing, ready)

7.Publications

7.1. SCI and SCI Expanded Journals

1. Rahib H. Abiyev, Mustafa Tunay. Optimization of High Dimensional Functions through Hypercube Evaluation. Computational Intelligence and Neuroscience, Volume 2015, 2015.
2. Rahib H.Abiyev, Rafik Aliyev, Okyay Kaynak, I. Burhan Turksen, Karl Walter Bonfig. Fusion of Computational Intelligence Techniques and Their Practical Applications. Computational Intelligence and Neuroscience, Volume 2015, 2015.
3. Rahib H.Abiyev. Credit Rating using Type-2 Fuzzy Neural Networks. Matimatical Problems in Engineering. Vlume 2014, Hindawi Publications, 2014.
4. Rahib H.Abiyev, Nurullah Akkaya, Ersin Aytac, Dogan Ibrahim. Behaviour Tree Based Control For Efficient Navigation of Holonomic Robots. International Journal of Robotics and Automation, Actapress, Vol.29, Issue 4, 2014.
5. Rahib H. Abiyev, Okyay Kaynak, Erdal Kayacan, A type-2 fuzzy wavelet neural network for system identification and control, Journal of the Franklin Institute- Engineering and Applied Mathematics, Volume: 350 Issue:7 2013, Pages: 1658-1685 DOI: 10.1016/j.jfranklin.2013.04.020
6. Rahib H.Abiyev. Fuzzy Wavelet Neural Network Based on Fuzzy Clustering and Gradient Techniques for Time Series Prediction. Neural Computing & Applications, Vol. 20, No. 2, pp. 249-259, 2011
7. Rahib H. Abiyev, Okyay Kaynak. Tayseer Alshanableh, Fakhreddin Mamedov. A Type-2 Neuro-fuzzy System Based on Clustering and Gradient Techniques Applied to System Identification and Channel Equalization. Applied Soft Computing, Vol.11, Issues 1, 2011.
8. Rahib H.Abiyev, Kemal Ihsan Kilic.Exploiting the Synergy Between Fractal Dimension and Lacunarity for Improved Texture Recognition. Signal Processing, Vol.91, Issues 10, pp:2332-2344, 2011.
9. Rahib H. Abiyev, Okyay Kaynak. Type-2 Fuzzy Neural Structure for Identification and Control of Time-Varying Plants. IEEE Transactions on Industrial Electronics. Vol. 57, No. 12, pp. 4147 – 4159, December 2010.
10. Erdal Kayacan, Yesim Oniz, Ayse Cisel Aras, Okyay Kaynak, Rahib Abiyev. A Servo System Control with time-varying and Nonlinear Load Conditions Using Type-2 TSK Fuzzy Neural System. Applied Soft Computing, Vol. 11, No. 8, pp. 5735 – 5744, 2011.

11. R.Abiyev, D. Ibrahim, and B. Erin. Navigation of mobile robots in the presence of obstacles. *Advances in Software Engineering*, Vol.41, Issues 10-11, 2010, pp.1179-1186.
12. R. Abiyev, D. Ibrahim, and B. Erin. EDURobot: An Educational Computer Simulation Programm for Navigation of Mobile Robots in the Presence of Obstacles. *International Journal of Engineering Education*. Vol.26. No.1, pp.18-29, 2010.
13. Rahib H. Abiyev, Okyay Kaynak. Fuzzy Wavelet Neural Networks for Identification and Control of Dynamic Plants, a Novel Structure and a Comparative Study. *IEEE Transactions on Industrial Electronics*. Vol.55, No.8, 2008,pp.3133-3140.
14. Rahib H. Abiyev, Fuzzy Wavelet Neural Network for Prediction of Electricity Consumption. *AIEDAM: Artificial Intelligence for Engineering Design, Analysis and Manufacturing*. Vol. 23, Issue: 2, pp: 109-118, May 2009.
15. Rahib H. Abiyev, Koray Altunkaya. Neural Network Based Biometric Personal Identification with fast iris segmentation. *International Journal of Control, Automation and Systems*. Vol.7, No.1, 2009.
16. R.Aliev, Rahib Abiyev, Mustafa Menekay. Fuzzy Approach to Portfolio Selection Using Genetic Algorithms. *Intelligent Automation and Softcomputing*, Vol.14, No.4, 2008, pp.525-540.
17. Rahib Abiyev, Mustafa Menekay. Fuzzy Portfolio Selection Using Genetic Algorithm. *Soft Computing- A Fusion of Foundations, Methodologies and Applications*, Springer, Berlin/ Heidelberg, Volume 11 Issue 12, 2007. pp.1157-1163.
18. Rahib H. Abiyev, Time Series Prediction Using Fuzzy Wavelet Neural Network Model. *ICANN-2006. Lecture Notes in Computer Sciences*, Springer-Verlag, Berlin Heidelberg, 2006. pp.191-200.
19. Rahib Abiyev, Mustafa Menekay. "Fuzzy Genetic System for Modelling of Investment Portfolio". *Lecture Notes in Artificial Intelligence*, Springer-Verlag, Berlin Heidelberg, 2006. pp.701-710.

International and National Journals

20. Rahib H. Abiyev, Nurullah Akkaya, Ersin Aytac, Irfan Günsel, and Ahmet Çağman. Improved Path-Finding Algorithm for Robot Soccers. *Journal of Automation and Control Engineering*, Vol.3, No.5, October 2015.
21. Mustafa Tunay, Rahib H. Abiyev. Hybrid Local Search Based Genetic Algorithm and its Practical Application. *International Journal of Soft Computing and Engineering (IJSCE) ISSN: 2231-2307*, Volume-5 Issue-2, May 2015
22. Rahib H. Abiyev. Design of Fractional Order Controllers Using Genetic Algorithms. *British Journal of Mathematics & Computer Science*, ISSN: 2231-0851, Vol.: 4, Issue.: 18 , 2014.
23. Rahib H. Abiyev , Facial Feature Extraction Techniques for Face Recognition. *Journal of Computer Science* 10 (12): 2360-2365, 2014, ISSN: 1549-3636
24. Rahib H. Abiyev, Vasif Hidayat Abiyev. Differential Evaluation Learning of Fuzzy Wavelet Neural Networks for Stock Price Prediction. *ISSN 1746-7659, England, UK,Journal of Information and Computing Science*, Vol. 7, No. 2, 2012, pp. 121-130
25. B. Erin, R. Abiyev, and D. Ibrahim. Teaching robot navigation in the presence of obstacles using a computer simulation program. *Procedia – Social and Behavioral Sciences*. Elsevier, Volume 2, Issue 2, 2010, pp. 565-571.
26. Rahib H. Abiyev, Type-2 Fuzzy Wavelet Neural Network for Time-Series Prediction. *IEA-AIE 2010, Trends in Applied Intelligent Systems, Part III, Book Series: Lecture Notes in Artificial Intelligence Volume: 6098 Pages: 518-527 Published: 2010*
27. Rahib H. Abiyev, Kemal Kilic. Adaptive Iris segmentation. *Lecture Notes in Computer Sciences*, Springer-Verlag, Berlin Heidelberg, CS press, 2009.
28. Rahib Abiyev, Koray Altunkaya. Personal Iris Recognition Using Neural Networks. *International Journal of Security and Its Applications*. Vol.2, No.2, 2008.
29. Rahib Abiyev. Recurrent neural network based fuzzy inference system for identification and control of dynamic plants. *World Academy of Science, Engineering and Technology, International Journal on Computer, Information Science and Engineering*. Vol:1, No:7, 2007. pp.250-259.
30. Rahib Abiyev, Koray Altunkaya. Neural Network Based Biometric Personal Identification. *Lecture Notes in Computer Sciences*, Springer-Verlag, Berlin Heidelberg, CS press, 2007.
31. Rahib Abiyev, Fakhreddin Mamedov , Tayseer Al-shanableh. Nonlinear neuro-fuzzy network for channel equalization. *Analysis and Design of Intelligent Systems using Soft Computing Techniques*, Book Series: *Advances in Soft Computing*, V: 41 pp: 327-336 DOI:10.1007/978-3-540-72432-2_33, 2007.
32. Rahib Abiyev, Koray Altunkaya. Iris Recognition for Biometric Personal Identification Using Neural Networks. *Lecture Notes in Computer Sciences*, Springer-Verlag, Berlin Heidelberg, 2007.

33. Rahib Abiyev, Fakhreddin Mamedov , Tayseer Al-shanableh. Equalization of Channel Distortions by Using Nonlinear Neuro-fuzzy Network. *Advances in Neural Networks, Lecture Notes in Computer Sciences*, Springer-Verlag, Berlin Heidelberg, 2007.
34. Rahib H. Abiyev. Electricity Consumption prediction model using neuro-fuzzy System. *Transaction on Enformatika*, Budapest, vol:8, 2005.
35. Rahib Hidayat Abiyev, Fuzzy Wavelet Neural Network for Control of Dynamic Plants. *International Journal on Computational Intelligence*, , Vol. 1, Number 2, 2004, pp.163-167.
36. Rahib Hidayat Abiyev. Neuro-fuzzy system for Equalization channel distortion. *International Journal on Computational Intelligence*, 2004, pp.299-302.
37. Rahib Abiyev. Fuzzy inference system based on neural network for technological processes control. *Mathematical and Computational Applications*. Turkey, 2002, pp.245-252.
38. Rahib Abiyev. Genetic Algorithm Synthesis of the Industrial Controllers// *Journal of Applied Science*. Volume 1, N:3, June, 2001,pp.283-286.
39. Fakhreddin Mamedov, Rahib Abiyev and Tayseer Alshanableh. Signal processing system using neural networks for Inspection of Pipelines Corrosion// *Journal of Applied Science*. Volume 1, N:2 April, 2001,pp.117-118.
40. K.M.Kerimov, R.H.Abiyev,T.M.Salehli,T.G.Melikov,F.I.Ibadov. On Multi-dimensional Petrophysical Relations of Oil and Gas Reservoirs// *Journal of Geophysics News in Azerbaijan*. Baku, N:4, 1999, pp.23-26.
41. K.M.Kerimov, R.H.Abiyev, T.G.Melikov. Mathematical model of petrophysical characteristics of rocks// *Journal of Geophysics News in Azerbaijan*. Baku, N:3, 1999, pp.35-37.
42. K.M.Kerimov, R.H.Abiyev, T.G.Melikov, E.S.Novruzov. Use of illegible logic to determine oil and gas bearing intervals in beds// *Journal of Geophysics News in Azerbaijan*. Baku, N:2, 1999, pp.33-35.
43. K.M.Kerimov, R.H.Abiyev, T.G.Melikov. Fuzzy system for determination of oil-gas fields productivity// *Journal of Geophysics News in Azerbaijan*. Baku,N:1,1999,pp.13-15.
44. A.A.Abdullayev, R.H.Abiyev, T.G.Melikov, E.S.Novruzov. Improvement of efficiency and productivity of magnetic-telluric sounding// *Journal of Geophysics News in Azerbaijan*. Baku, N:1, 1999, pp.15-16.
45. R.A.Aliev, R.H.Abiyev. Neural controller for defining quality of products// *Neft i Gas*, Baku,N3,1993,66-70pp.(Russian)
46. R.H.Abiyev, R.A.Aliev, and R.R.Aliev, "The synthesis of fuzzy control system with neural networks based tuner". *News of Academy of Sciences, Tech. Cybernetics* N 2: pp.192-197, 1994 (in English and Russian).
47. R.A.Sadichov, R.H.Abiyev. Intelligent system for estimation of the collector property of rock by solving petrophysical equations// *Scientific and pedagogic news of "Odlar Yurdu" university*. N:2,1999,pp.34-39. (Russian)
48. I.H.Muratov, R.H.Abiyev, R.R.Aliev. Learning systems based on neural networks for control technological processes // "Intelligent control and decision making systems". Thematic collected articles, N:1, Azerb.SOA,Baku-1997,pp.43-49(Russian)
49. B.A.Abbasov,R.H.Abiyev. Adaptive fuzzy controller for technological process control// *High Military Sea School,"Materials of scientific research works"*, N1, Baku, 1998, (Russian)
50. R.H.Abiyev. Fuzzy neural network for solution of problems of oil and gas geology// *Oil and future of Azerbaijan. The research works of younger scientists*. Baku. AIOC,1998. (Russian)
51. R.A.Sadichov, R,H,Abiyev. Fuzzy neural network modelling of oil and gas geology systems// "Intelligent control and decision making systems". Thematic collected articles, N:2, Azerb.SOA,Baku-1998,pp.83-92.(Russian)
52. R.H.Abiyev, G.Mustafaeva. Neural controller with genetic algorithm// *High Military Sea School,"Materials of scientific research works"*, N1, Baku, 1997, pp.65-68(Russian)
53. R.H.Abiyev. Controllers based on neural networks// *Uchenie zapiski, AzGNA*, 1995, 147-152pp.(Russian)
54. R.H.Abiyev, R.R.Aliev. Neural controller for control of technological processes// *Uchenie zapiski, AzGNA,N2*, Baku-1994,88-97pp.(Russian).
55. R.H.Abiyev. Synthesis of neural network structure for neural controller, defining quality of productions// *Uchenie zapiski, AzGNA,N3*, Baku-1993,103-106pp. (Russian)
56. R.A.Aliev, R.H.Abiyev. Development model of neural controller for control of the quality of products// *Uchenie zapiski, AzGNA,N1*, Baku-1993,73-78pp.(Russian)

7.2. Conference Proceedings Citation Index- Science (CPCI-S) and (EI) indexed

1. Rahib H.Abiyev, Günay Sadikoğlu, Esmira Abiyeva. Fuzzy Evaluation of Job Satisfaction of Hotel Employees. The 2015 World Congress in Computer Science, Computer Engineering, and Applied Computing, ICAI'15, 27-30 July, Las Vegas, Nevada , USA, 2015
2. Rahib H.Abiyev, Nurullah Akkaya, Ersin Aytac, Irfan Günsel, Ahmet Çağman. Brain Based Control of Wheelchair. The 2015 World Congress in Computer Science, Computer Engineering, and Applied Computing, ICAI'15, 27-30 July, Las Vegas, Nevada , USA, 2015
3. Abdulkader Helwan and Rahib H. Abiyev. IBCIS: Intelligent System for Identification of Breast Cancer. 3-rd IEEE International Conference Advances in Biomedical Engineering, 2015
4. Rahib H.Abiyev, etc. Improved Path-Finding Algorithm for Robot Soccers. 3rd International Conference on Control, Robotics and Informatics (ICCRI 2014), Hong Kong, December 26-28, 2014.
5. Rahib H.Abiyev, Nurullah Akkaya, Ersin Aytac. Control of Soccer Robots using Behaviour Trees. ASCC, June, 2013, Istanbul.
6. Oniz, Yesim; Kaynak, Okyay; Abiyev, Rahib, Spiking Neural Networks for the Control of a Servo System. IEEE International Conference on Mechatronics (ICM), Vicenza, ITALY, Feb 27-Mar 01, 2013
7. Rahib H.Abiyev, Senol Bektas, Nurullah Akkaya, Ersin Aytac. Behaviour Tree Based Control of Holonomic Robots. International Journal of Robotics and Automation. WSEAS conference, Limasol, Cyprus, 2013
8. Rahib H.Abiyev, Okyay Kaynak, Yesim Oniz, Spiking Neural Networks for Identification and Control of Dynamic Plants. 2012 IEEE/ASME International Conference on Advanced Intelligent Mechatronics, July 11-14, 2012, pp: 1030 – 1035
9. Rahib H.Abiyev, Nurullah Akkaya, Ersin Aytac. Navigation of Mobile Robot in Dynamic Environments. IEEE International Conference on Computer Science and Automation Engineering CSAE 2012, Zhangjiajie, China, May 25-27, 2012,
10. Ayse Cisel Aras; Kaynak, Okyay; Abiyev, Rahib. Slip control of a quarter car model based on type-1 fuzzy neural system with parameterized conjunctions. IECON 2012 - 38th Annual Conference on IEEE Industrial Electronics Society . 2012 , pp: 2488 – 2493
11. Ayse Cisel Aras, Yesim Oniz, Okyay Kaynak, Rahib Hidayat Abiyev: Type-1 and Type-2 Fuzzy Control of an Anti-lock Breaking System (ABS) and Evaluation of Its Performances. ICINCO (1) 2011: 503-508
12. Rahib H. Abiyev, Type-2 Fuzzy Wavelet Neural Network Based on Clustering and Gradient Techniques for Stock Price Prediction.ICSCCW-2011, Antalya, Turkey, 1-3 September, 2011
13. Oniz, Y.; Aras, A.C.; Kaynak, O.; Abiyev, R. Experimental evaluation of a type-2 fuzzy control algorithm on an Anti-Lock Braking System. IECON 2011 - 37th Annual Conference on IEEE Industrial Electronics Society. 2011 , pp: 564 - 568
14. Ayse Cisel Aras, Yesim Oniz, Okyay Kaynak, Rahib Hidayat Abiyev: Type-1 and Type-2 Fuzzy Control of an Anti-lock Breaking System (ABS) and Evaluation of Its Performances. ICINCO (1) 2011: 503-508
15. Rahib H. Abiyev, Type-2 Fuzzy Wavelet Neural Network for Time-Series Prediction. The Twenty Third International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems, IEA-AIE 2010, June1-4, 2010, Cordoba, Spain. TRENDS IN APPLIED INTELLIGENT SYSTEMS, PT III, PROCEEDINGS Book Series: Lecture Notes in Artificial Intelligence Volume: 6098 pp: 518-527 Published: 2010
16. Erdal Kayacan, Okyay Kaynak, Rahib Abiyev, Jim Torresen and Mats Hovin. Design of an Adaptive Interval Type-2 Fuzzy Logic Controller for the Position Control of a Servo System with an Intelligent Sensor. 2010 IEEE International Conference on Fuzzy Systems. FUZZ-IEEE 2010, July 18-23, Barselona, Spain.
17. Y. Oniz, E. Kayacan, A.C. Aras, O. Kaynak and R. Abiyev. A Servo System Control with Time-varying Load using Type-2 Fuzzy Neural System. IECON 2010: 36th Annual Conference of the IEEE Industrial-Electronics-Society, NOV 07-10, 2010 Glendale, AZ. Book Series: IEEE Industrial Electronics Society
18. A.C. Aras, E. Kayacan, Y. Oniz, O. Kaynak and R. Abiyev, "An Adaptive Neuro-Fuzzy Architecture for Intelligent Control of a Servo System and its Experimental Evaluation," Proc. of the IEEE ISIE 2010 International Symposium on Industrial Electronics,Bari, Italy, pp. 68-73, 4-7 July 2010.
19. Rahib H. Abiyev,Kemal Kilic. An efficient Fractal Measure for Image Texture Recognition. International Conference on Soft Computing and Computing with Words in System Analysis, Decision and Control ICSCCW-2009,North Cyprus, Turkey, 2009

20. Rahib H. Abiyev, Okyay Kaynak. Identification and Control of Time-Varying Plants Using Type-2 Fuzzy Neural System IEEE International Joint Conference on Neural Networks, Vol:1- 6, CE press, June 14-19, 2009, Atlanta, Georgia (USA).
21. Rahib H. Abiyev, Okyay Kaynak. Identification and Control of Dynamic Plants Using Fuzzy Wavelet Neural Networks. Processing of the 2008 IEEE International Symposium on Intelligent Control, CE press, pp.31-37, September 3-5, 2008, San Antonio, Texas (USA)
22. Rahib H. Abiyev, Adalet N. Abiyev, Kamil Dimililer. The Walsh Functions Based Method for Reactive Power Measurement. 33rd Annual Conference of the IEEE-Industrial-Electronics-Society, IEEE IECON 2007, CS press, Vols:1-3, pp.2337-2342, 2007.
23. Rahib H. Abiyev, Tayseer Al-shanableh. Neuro-Fuzzy Network for Adaptive Channel Equalization. 5th Mexican International Conference on Artificial Intelligence. IEEE CS press. MICAI 2006. Apizaco, Mexico November 13-17, 2006
24. Rahib Hidayat Abiyev, Controller based on Fuzzy Wavelet Neural Network for Control of Technological Processes. In proceeding of IEEE International Conference on Computational Intelligence for Measurement Systems and Applications, IEEE CIMSA 2005, pp.215-219, Giardini Naxos - Taormina, Sicily, ITALY , 20-22 July 2005.
25. Rahib Abiyev, Fakhreddin Mamedov , Tayseer Al-shanableh. Neuro-fuzzy system for Channel noise Equalization. International MultiConference in Computer Science & Computer Engineering. In proceeding of International Conference on Artificial Intelligence.IC-AI'04, pp.243-248, Las Vegas, Nevada, USA, June 21-24, 2004
26. Rahib Abiyev. Neuro-Fuzzy system for technological processes control. In proceeding of the 6th World Multi-Conference on Systemics, Cybernetics and Informatics. Vol XII, pp.249-253, SCI-20002, Orlando, Florida, USA. July 14-18, 2002.
27. R.A.Aliev, R.H.Abiyev, R.R.Aliev. Synthesis of industrial neural controllers.// IEEE World Congress on Computational Intelligence, Int.Conf. Neural networks, V.1-7, pp.1644-1649, San Diego, Calif., June 28-July 2, 1994.
28. R.A.Aliev, R.H.Abiyev, R.R.Aliev. Industrial controllers based on neural expert system. //World Congress on Expert Systems,Estoril/Lissabon, pp.887-892,Portugal, January 10-14,1994.

International Symposiums and Conferences Proceedings

29. Rahib H.Abiyev, Nurullah Akkaya, Ersin Aytac, Irfan Günsel, Ahmet Çağman. Development of Brain Computer Interface for Wheelchair. The International Biomedical Engineering Congress 2015 (IBMEC-2015), 12-14 March 2015, Girne, North Cyprus
30. Mustafa Tunay, Rahib H. Abiyev. Hypercube Optimization Search Algorithm. Eighth International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decision and Control. ICSCCW-2015, September 3-4, 2015 Antalya, Turkey
31. Rahib H.Abiyev, Abdulkader Helwan. Intelligent Breast Cancer Identification System. The International Biomedical Engineering Congress 2015 (IBMEC-2015), 12-14 March 2015, Girne, North Cyprus
32. Rahib H. Abiyev. Wavelet Neural Networks for Image Compression, 1st International Symposium on Digital Forensics and Security, ISDFS 2013, 20-21 May, 2013, Elazig, Turkey.
33. Rahib H.Abiyev, Hussein Mohammed. Isolated Word Recognition, ISEAIA 2013, Girne, TRNC, 6-8 November,2013.
34. Rahib H.Abiyev, Kaan Uyar, Elbrus Imanov, Rifat Dover. Bhaivour Based Mobile Robot Navigation in 3D Workspace. ICAFS-2012, Lissabon, 2012.
35. Rahib H.Abiyev, Nurullah Akkaya, Ersin Aytac. Navigation of Mobile Robot in Dynamic Environments. IEEE International Conference on Computer Science and Automation Engineering CSAE 2012, Zhangjiajie, China, May 25-27, 2012,
36. Rahib H.Abiyev. Type-2 Fuzzy Neural Network for System Identification and Control. EEECS 2012, International Symposium "Creating the Future". Lefke, TRNC, Turkey, November, 2012
37. Rahib Abiyev, Dogan Ibrahim, and Besime Erin.. Fuzzy obstacle avoidance in the navigation of mobile robots. 6st FAE International Symposium "Creating the Future". Lefke, TRNC, Turkey, November 26-30, 2010
38. Rahib H.Abiyev. Biometric Identification using Fast localization and Recognition of Iris Images. International Symposium on Network and Information Security. Girne, TRNC, Turkey, May 16-18, 2008

39. Rahib H. Abiyev, Mustafa Menekay. Fuzzy Portfolio Selection Using Genetic Algorithm. International Conference on Hybrid Information Technology. ICHIT 2006, Cheju Island, Korea, November 9-11, 2006.
40. Rahib H. Abiyev. Neural Network Based Type-2 Fuzzy System For Identification and Control of Dynamic Plant. . 4th FAE International Symposium "Creating the Future". Lefke, TRNC, Turkey, November 30-December 1, 2006.
41. Rahib Hidayat Abiyev, Mustafa Menekay: Fuzzy Genetic System for Modelling Investment Portfolio. PRICAI 2006: 701-710
42. Rahib H. Abiyev. Fuzzy Wavelet Neural Network for Time Series Prediction. 3rd International Symposium on Electrical, Electronic and Computer Engineering. ISEECE2006. Nicaosia, TRNC, Turkey, November 24-25, 2006, pp.269-274.
43. Rahib Abiyev, Qais Albeni, "Arabic Character Recognition Using Neural Network", ICGST International Conference on Artificial Intelligence and Machine Learning (AIML-05), 19-21 December 2005, Cairo, Egypt.
44. Rahib Abiyev, Mustafa Menekay. Fuzzy systems for risk return optimization in investment Portfolio. International Conference on Soft Computing and Computing with Words in System Analysis, Decision and Control (Dedicated to Professor Lotfi Zadeh), ICSCCW-2005, Antalya, Turkey, September 1-2, 2005.
45. Rahib H. Abiyev, Mustafa Menekay, Fuzzy Genetic Algorithm for Portfolio modeling in investment, 2nd International Conference On Intelligent Knowledge Systems IKS-2005 06-08 July 2005 Istanbul, Turkey
46. Rahib Hidayat Abiyev, Fuzzy Wavelet Neural Network for Control of Dynamic Plants. International Conference on Computational Intelligence. ICCI-2004, Istanbul, Turkey, Desember 17-19, 2004.
47. Rahib Abiyev, Rafik Aliev, Mustafa Menekay. Fuzzy portfolio optimization using Genetic Algorithms. 6-th International Conference on Application of Fuzzy Systems and Soft Computing. ICAFS-2004. Barcelona, Spain, September 28-30, 2004.
48. Rahib Abiyev, Mehmet Ali Salahli, Controller Based on Wavelet Neural network. 4-th International Symposium on Intelligent Manufacturing Systems. IMS'2004, Sakarya, September 6-8, 2004.
49. Rahib Abiyev, Mustafa Menekay. Fuzzy Genetic system for Portfolio optimization. 3rd FAE International Symposium "Creating the Future". Lefke, TRNC, Turkey, November 25-26, 2004.
50. Rahib Abiyev, Mustafa Menekay. Fuzzy Expert System for Bank Credit Authorization. International Conference on Information Technologies and Engineering, ICITE-2004, September 01-04, 2004, Çesme, Izmir, Turkey
51. Rahib Abiyev, Shahin Ahmedov. Fuzzy Expert System In Medical Diagnosis of the Chest Pain. International Conference on Application of Information-Communication Technologies in Science and Education, Baku, Azerbaijan, September 15-16, 2004
52. Rahib Abiyev, Mehmet Ali Salahli, Development of Wavelet Neural Network based Controller . 3rd FAE International Symposium "Creating the Future". Lefke, TRNC, Turkey, November 25-26, 2004.
53. Rahib Abiyev, Mustafa Menekay, Vasif Abiyev, Ali Denker. Quadratic programming and its application to fuzzy Portfolio Optimization. ICCI2004. Nicaosia, TRNC, Turkey, May 27-29, 2004, pp.148-153.
54. Rahib Abiyev, Fakhreddin Mamedov, Tayseer Al-shanableh. Adaptive Equalization of Channel Distortion Using Recurrent Neuro-fuzzy Network. International Journal of Computational Intelligence. ICCI2004. Nicaosia, TRNC, Turkey, May 27-29, 2004, pp.154-157
55. Fakhreddin Mamedov, Rahib Abiyev, Tayser Alshanableh. Recurrent Neural Network for Equalization of Channel Distortion. Electrical, Electronics and Computer Engineering Symposium NEU-CEE2004. Nicaosia, TRNC, Turkey, March 11-13, 2004, pp.256-260.
56. Rahib Hidayat Abiyev. Neuro-fuzzy system for Equalization channel distortion. International Conference on Signal Processing, ICSI2004, Chanakkale, Turkey, 2004, February.
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58. Rahib Abiyev. Recurrent Neural Network Systems for Control of Dynamic Plants. 2nd FAE International Symposium "Creating the Future". Lefke, TRNC, Turkey, 6-7 November, 2002.
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60. Rahib Abiyev. Controller based on recurrent neural network for technological processes control. XXII International Congress on Operation Research and Industrial Engineering. OR/IE'01, Ankara Turkey, July 4-6, 2001, pp.65.

61. Fakhreddin Mamedov, Rahib Abiyev. Channel equalization using recurrent neural network// First International Conference on Soft Computing and Computing with Words in System Analysis, Decision and Control (Dedicated to Professor Lotfi Zadeh), ICSCCW-2001, Antalya, Turkey, June 6-8,2001,pp.327-330.
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63. Rahib Abiyev. Controllers based on Softcomputing elements// Electrical, Electronics and Computer Engineering Symposium NEU-CEE2001 & Exhibition. Nicaosia, TRNC, Turkey, May 23-25, 2001, pp.182-188.
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65. Fakhreddin Mamedov, Rahib Abiyev. Interpolation of the discrete-time signals using radial-basis neural network.// International Conference on Application of Fuzzy Systems and Softcomputing, Siegen, Germany, ICAFS-2000, June 27-29, pp360-364.
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71. K.M.Kerimov, R.H.Abiyev, T.G.Melikov. Determination of oil and gas field productivity in the condition of insufficiency and fuzziness of information// Second International Symposium on Mathematical and Computational Applications, Baku, september 1-3,1999.
72. F.T.Aliev, R.R.Aliev, W.Steinmann, I.H.Muratov, R.H.Abiyev. Neural learning systems for technological processes control./ International Conference on Application of Fuzzy Systems and Softcomputing, ICAFS-98, Wiesbaden, Germany, October 5-7, 1998, pp.94-98.
73. M.T.Abasov, R.A..Sadykov, R.Y.Aliyarov, J.M.Kondryushkin, R.H.Abiyev. Fuzzy neural networks in the systems of oil and gas geology and geophysics./ International Conferences on Application of Fuzzy Systems and Softcomputing, ICAFS-98, Wiesbaden, Germany, October 5-7, 1998, pp.108-117.
74. R.H.Abiyev. Evaluation of rocs collector properties by solving petrophysical equations on the base of learning systems.// State-of-art understanding of the geophysics methods to control exploitation of Oil and Gas deposits and improvement those works, Materials of scientific seminar. Baku, 1998, august 24-25.(Azerb.)
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76. R.H.Abiyev. Fuzzy neural systems with trapezoid parameters for control technological processes// Republic conferences of younger scientists, Baku-1997.(Russian)
77. R.H.Abiyev, K.W.Bonfig, F.T.Aliev. Controller based on fuzzy neural network for control of technological process.// International conferences on Application of Fuzzy Systems and Softcomputing, ICAFS-96, Siegen, Germany, June 25-27, 1996, pp.295-298.
78. R.A.Aliev, R.H.Abiyev, R.R.Aliev. Industrial controllers based on neural expert system. //World Congress on Expert Systems, Estoril/Lissabon, pp.887-892, Portugal, January 10-14, 1994.
79. R.A.Aliev, F.T.Aliev, R.H.Abiyev, R.R.Aliev. Industrial neural controllers.// EUFIT'94, Elita foundation, Promenade 9, 52076 Aachen, Germany, September 20-23, 1994, pp.1321-1325.
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7.3. Books and Book Chapters:

1. Abdulkader Helwan, Rahib Abiyev. Intelligent Breast Cancer Identification System. LAP Lambert Academic Publishing (March 31, 2015), ISBN-10: 3659689769, ISBN-13: 978-3659689765, pp.96.
2. Rahib H.Abiyev, Kemal I.Kilic. Robust Feature Extraction and Iris Recognition for Biometric Personal Identification. Biometrics. Edited by: Zahid Riaz ISBN 978-953-307-542-6, INTECH Open Access Pub., 2011
3. Rahib Abiyev, Fakhreddin Mamedov , Tayseer Al-shanableh. Nonlinear Neuro-fuzzy Network for Channel Equalization. Advances in Soft Computing, Springer, Berlin Heidelberg, 2007.
4. Rahib Abiyev, Dogan Ibrahim. Programming in C. NEU-press, Nicosia, 2011, 200p.
5. Rahib Abiyev. "Algorithms", NEU-Press, Nicosia, 2006. 209p.
6. Rahib Abiyev, Dogan Ibrahim. C Programming, for Students. Bileşim Matbaacilik A.Ş., Istanbul, Turkey, 2004, 254p.
7. Rahib Abiyev, Doğan İbrahim. Öğrenciler için C Programlama. Bileşim Matbaacilik A.Ş., Istanbul, Turkey, 2004, 200p.
8. Rahib Abiyev. C Programming Laboratory. NEU-press, Nicosia, 2002
9. Adnan Khasman, Rahib Abiyev. Gradution Project: A complete guide. (first edition). Near East University. Nicosia, 2001,34p.
10. R.H.Abiyev. Intelligent systems based of neural networks. Methodical works, Azerb.SOA, Baku, 1997,32p.(Russian).

7.6 Other Publications:

1. Rahib Abiyev, Nurullah Akkaya, Ersin Aytac, Mustafa Arici, Muhlis Bayezit. NEUISlanders 2012 Team Description Paper. http://small-size.informatik.uni-bremen.de/_media/neuislanders_2012_tdp.pdf
2. Rahib H.Abiyev, Irfan GUNSEL, Nurullah AKKAYA, Ersin AYTAC, Murat ARSLAN, Fatih EMREM, Gorkem SAY, Ahmet CAGMAN, Senol KORKMAZ, Ilker DAGLI, Mustafa ARICI. NEUISlanders 2014 Team Description Department of Computer Engineering. Brazil, RoboCup 2014.

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8. Projects

- In 2010 under supervision of Prof.D.Rahib H.Abiyev the "NEUISlanders" robotic football team of Near East University was created. Since 2012 each year the team takes part in World RoboCup competitions. In 2013 the team took 14-th place among 24 teams.
- In 2008 under supervision of Prof.D.Rahib H.Abiyev the Robotics research group was created. The robotic team has taken part in many International and national robotic competitions and has got very good results.
- In 2001 Prof.D.Rahib H.Abiyev has created the Applied Artificial Intelligence Research Center. In this centre many PhD. And MSc. theses were prepared.

- TUBITAK Research Project

- 1) Type-2 Fuzzy Neural System for DC motor control with time varying load (With Bogazici University)

- TURKEY/TRNC Research Projects

1. Iris recognition system Using Neural Networks(YDÜ/5-07-2) – *Project Supervisor*
2. Fuzzy Wavlet Neural System for prediction electricity consumption, 2006
3. Development of intellectual mobile robots, (Designing of football team for Near East University) (YDÜ/2010-1-04) - *Project Supervisor*

9. Administrative Posts and Activities:

- Lead Guest Editor, Special Issue on Fusion of Computational Intelligence Techniques and Their Practical Applications, Computational Intelligence and Neuroscience Journal
- Director of “Applied Artificial Intelligence Research Centre
- Chairman of Computer Engineering Department (2009-2014)
- Depute Chairman of Computer Engineering Department (2002-2009)
- Founder and Director of “Applied Artificial Intelligence Research Centre”
- University Senator
- Member of Steering Committee of Graduate School of Applied Sciences, NEU
- Supervision of PhD. Thesis
- Supervision of MSc. Thesis
- Member of PhD. Examination Jury
- Member of MSc. Examination Jury

10. Citations

More than 570 citations to my papers.

<http://scholar.google.com/citations?user=4ie50z8AAAAJ&hl=en&cstart=0&pagesize=20>

11. Memberships and Professional Societies:

- Member of IEEE
- “Computational Intelligence Society” üyesi
- “Industrial Electronics Society” üyesi

Member of the Programming and Organizing Committees

Conference Co-Chairman

1. International Conference on Computer Science, ICCS2006, Vienna, March 29-31, 2006

Member of the Programming Committee

1. International Conference on Pattern Recognition Applications and Methods, ICPRAM 2015, 10-12 January, Lisbon, Portugal. <http://www.icpram.org/Home.aspx?y=2014/>
2. GS International Multi-Conference on Science and Technology 2014 (GS-MICST 14), November 07-09, 2014, Dubai, UAE, <http://www.gspublishers.com/conferences/gsmicst14/tcp.html>
3. International Biomedical Engineering Congress 2014 (IBMEC-2014), 19-23 November, Girne, North Cyprus, <http://con.neu.edu.tr/ibmec/>
4. Turkish National Meeting on Automatic Control (TOK2014 - Otomotik Kontrol Ulusal Toplantisi ve Sergisi), Kocaeli, Turkey, 11-13 September, 2014, <http://tok2014.kocaeli.edu.tr/kurullar.html>
5. 2nd International Conference on E-Health and TeleMedicine., Istanbul, Turkey, 22-24 May, 2014, <http://www.icehtm.net/>
6. The second International Symposium On Engineering, Artificial Intelligence And Applications, ISEAIA-2014, 5-7 November 2013, Girne American University, Cyprus. <http://iseaia2014.gau.edu.tr/>
7. The First International Symposium on Digital Forensics and Security (ISDFS), Advisory Board, Elazig, Turkey, 20-21 May 2013
8. Turkish National Meeting on Automatic Control (Otomotik Kontrol Ulusal Toplantisi ve Sergisi). TOK2013, Malatya, Turkey, 26-28 September, 2013, <http://tok2013.inonu.edu.tr/index.php/page/index/mainpage>
9. The first International Symposium On Engineering, Artificial Intelligence And Applications, ISEAIA-2013, 6-8 November 2013, Girne American University, Cyprus. <http://iseaia2013.gau.edu.tr/>
10. 7th FAE International Symposium “Creating the Future”. Lefke, TRNC, Turkey, October, 2012
11. 6th FAE International Symposium “Creating the Future”. Lefke, TRNC, Turkey, October, 2010.
12. 5th FAE International Symposium “Creating the Future”. Lefke, TRNC, Turkey, October, 2008.
13. Ağ ve Bilgi Güvenliği Ulusal Sempozyumu. TMMOB Elektrik Muhendisleri Odası, Girne, May 16-18, 2008
14. International Conference on Business and Economics, 2007
15. International Conference on Computer Science, ICCS2006, Budapest, May 26-28, 2006
16. Fifteenth Turkish Symposium on Artificial Intelligence and neural Networks. TAIN 2006, June 21-23, 2006, Mugla, Turkey
17. 4rd FAE International Symposium “Creating the Future”. Lefke, TRNC, Turkey, November 30-December 1, 2006.
18. 3rd International Symposium on Electrical, Electronic and Computer Engineering. ISEECE2006. Nicaosia, TRNC, Turkey, November 24-25, 2006, pp.269-274.
19. International Conference on Machine Intelligence. ICMI-2005, Budapest, Hungary, October 8-9, 2005.

20. International Conference on Computational Intelligence. ICCI-2004, Istanbul, Turkey, Desember 17-19, 2004.
21. 3rd FAE International Symposium "Creating the Future". Lefke, TRNC, Turkey, November 25-26, 2004.
22. International Conference on Computational Intelligence. ICCI-2004, Istanbul, Turkey, Desember 17-19, 2004
23. International Conference on Signal Processing, ICSI2004, Chanakkale, Turkey, 2004, February.

Member of the Organizing Committee

1. The 2nd International Conference on Computational and Network Technologies 2014 (ICCNT), 2-4 December, 2014, Bali, Indonesia, <http://scholarsconvention.com/iccnt/organizing>
2. Sixth International Conference on Soft Computing, and Computing with Words and Perceptions in System Analysis, Decision and Control. September 1-2, ICSCCW-2011, Antalya, 2011
3. Fourth International Conference on Soft Computing, and Computing with Words and Perceptions in System Analysis, Decision and Control. August 27-28, ICSCCW-2007, Antalya, 2007
4. 3rd International Symposium on Electrical, Electronic and Computer Engineering. ISEECE2006. Nicaosia, TRNC, Turkey, November 24-25, 2006, pp.269-274.
5. International Conference on Computational Intelligence. ICCI2004. Nicaosia, TRNC, Turkey, May 27-29, 2004, pp.148-153.
6. International Conference on Application of Fuzzy Systems and Soft Computing, ICAFS-2006, Germany, September 11-12,2006.
7. International Conference on Soft Computing, and Computing with Words and Perceptions in System Analysis, Decision and Control. ICSCCW-2007, Antalya, August 27-28,2007.
8. International Conference on Soft Computing, and Computing with Words and Perceptions in System Analysis, Decision and Control. ICSCCW-2011, Antalya, September 01-02,2011.

12. Awards

- High achievement award for research, Near East University, March 2011.
- High achievement award for research, Near East University, March 2010.
- High achievement award for research, Near East University, March 2009.
- High achievement award for research, Near East University, November 2008.
- The diploma in the competition among young scientists in the field of "OIL AND FUTURE OF AZERBAIJAN" which is held by the Azerbaijan International Operation Company and Baku State University by name M.A.Resultzade (Fuzzy neural network for solution of the problems of oil and gas geology/ Oil and future of Azerbaijan. The research works of younger scientists. Baku. AIOC,1998. (Russian))

13. Teaching activities

Academic year	Semester	Course name	Weekly hours		Number of Students
			Lecture	Application	
2012-2013	Fall	Algorithms	4h	1h	52
		C programming	4h	2h	46
		Pattern Recognition	4h	2h	18(Master students)
	Spring	Object Oriented Programming	4h	2h	54
		Advanced Object Orient. Programming (using C#)	4h	2h	42
		Design and Analysis of Algorithms	4h	1h	15(Master students)
2013-2014	Fall	Signals and Systems	4h	2h	48
		Object Oriented Programming	4h	2h	32

		Fuzzy Systems	4h	2h	18(Master students)
	Spring	Object Oriented Programming	4h	2h	21
		Advanced Object Orient. Programming (using C#)	4h	2h	38
		Linear and Nonlinear Programming	4h	2h	15(Master students)