

CURRICULUM VITAE

1. Name and Surname FAHREDDIN SADIKOGLU MAMMADOV

2. Date of birth September 30, 1947, Azerbaijan

3. Family Status Married, 3 children

4. Profession Dr. Professor

5. Education

Degree	Speciality	University	Year
Master	Information Measurement and Computing Technology	Azerbaijan State Oil Academy	1970
Doctorate	Information Measurement and Computing Technology	Azerbaijan State Oil Academy	1982

Certificates **Diploma, Electrical Engineering (1970),
Ph.D in Science & Technology (1982),
Associate Professor (1986),
Professor (1993)**

6 Academic Services:

Lecturer and Research Assistant	Department of Information Measurement and Computer Technology	Azerbaijan State Oil Academy	1970-1978
Head of research Laboratory	Development of Advanced Signal transmission and Processing methods	Russian Research Institute	1978-1982
Assist. Professor	Department of Information Measurement and Computer Technology	Azerbaijan State Oil Academy	1982-1984
Assoc. Prof. and Head of “Control System for Internal Inspection of Pipeline” Research Laboratory	Department of Information Measurement and Computer Technology	Azerbaijan State Oil Academy	1986-1988

Abroad Work	Senior Fellowship,	University Paul Valerie France	1988
Professor and Director of “Signals and Systems” Research Laboratory	Department of Electronic	Sidi Bell Abbes Univ Algeria	1988-1994
Professor	Department of Electronic	Bumerdes University	1993-1994
Professor	Department of Information Measurement and Computer Technology	Azerbaijan State Oil Academy	1994-1995
Professor	Engineering Faculty	Near East University	1995- present

McS – 1970; PhD- 1982; Assoc. Professor -1986; Professor - 1993

7.Theses

7.1.Master theses (More than 50)

1. Development of Algorithms for Reconstruction of Analog Signals from its Samples
2. Efficiency Analysis of Digital Modulation Techniques
3. Information Measurement Systems based on Iterative Error Correction Algorithms
4. Encryption Methods for Wireless Communications
5. Speech Compression based on Linear Predictive Encoding

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7.2 PhD Thesis

1. Development Data Compression Methods Based on Adaptive Sampling

8.Publications

8.1 Patents

- [1] Profilemeter. Patent No 733254, 1980
- [2] Logarithmic converter. Patent No 754439, 1980
- [3] Adaptive sampling. Patent No 792582, 1981
- [4] System reconstruction of analogue signal from samples. Patent No 877572, 1982
- [5] Angular position to voltage converter. Patent No 1245870, 1986

8.2. International Symposiums and Conferences Proceedings (Majers)

- [1] A.M. Tabatabaei, A. Hashemi, N. Taheri, F. M. Mamedov. A novel adaptive based stabilizer for dynamic stabilityimprovement with UPFC. Proceeding of 7 th International Conference on Technical and Physical Problems of Power Engineering, ICTPE-2011, Nicosia, July 7-9, 2011, pp. 280-285.

- [2] Abiyev Rahib, Mamedov Fakhraddin; Al-Shanableh Tayseer. [Equalization of channel distortion using nonlinear neuro-fuzzy network](#). Conference: 4th International Symposium on Neural Networks (ISNN 2007) Location: Nanjing, PEOPLES R CHINA Date: JUN 03-07, 2007. Advances in Neural Networks - ISNN 2007, Pt 2, Proceedings Book Series: LECTURE NOTES IN COMPUTER SCIENCE Volume: 4492 Pages: 241-250 Published: 2007
- [3] Abiyev Rahib, Mamedov Fakhraddin, Al-Shanableh Tayseer. [Nonlinear neuro-fuzzy network for channel equalization](#). Conference: IFSA 2007 World Congress Location: Cancun, MEXICO Date: JUN 18-21, 2007 . Source: ANALYSIS AND DESIGN OF INTELLIGENT SYSTEMS USING SOFT COMPUTING TECHNIQUES Book Series: ADVANCES IN SOFT COMPUTING Volume: 41 Pages: 327-336 DOI: 10.1007/978-3-540-72432-2_33 Published: 2007
- [4] Abiyev R, Mamedov F., Alshanableh T. [Neuro fuzzy system for channel noise equalization](#) Editor(s): Arabnia HR; Mun Y. Conference: International Conference on Artificial Intelligence/International Conference on Machine Learning, Models, Technologies and Applications **Location:** Las Vegas, NV **Date:** JUN 21-24, 2004. Informat; World Acad Sci Informat Technol, Source: IC-AI '04 & MLMTA'04 , VOL 1 AND 2, PROCEEDINGS Pages: **243-248** Published: 2004
- [5] Fakhreddin Mamedov, Rahib Abiyev, Tayseer Alshanableh. Recurrent neural network for equalization of channel distortion. Proceeding of International Symposium on Electrical Electronics and Computer Engineering, NEU CEE-2004, Nicosia, March 11-13, 2004, pp. 256-260.
- [6] Fakhreddin Mamedov, Jamal Fathi. Signal denoising using integration of wavelete & neural network. Proceeding of International Symposium on Electrical Electronics and Computer Engineering, NEU CEE-2004, Nicosia, March 11-13, 2004, pp. 276-280.
- [7] Fakhreddin Sadıkoğlu, Rahib Abiyev, Tayseer Alshanableh. Adaptive equalization of channel distortion using recurrent neuro - fuzzy network. Proceeding of International Conference on Computational Intelligence, ICC 2004, Nicosia, May 27 – 29, 2004, pp. 154-158.
- [8] Fakhreddin Mamedov, Rahib Abiyev. Neural equalizer for channel distortion// Fifth International Conference on Application of Fuzzy Systems and Soft Computing, ICAFS-2002, Milan, Italy, September 17-19, 2002.
- [9] 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.
- [10] Fakhreddin Mamedov, Rahib Abiyev, Tayseer Alshanableh. Signal processing system using radial-basis neural network for Inspection of Pipelines Corrosion// Pakistan Journal of Applied Science. Volume 1, N:2 April, 2001, pp.117-118.

- [11] Fahreddin Mamedov, Rahib Abiyev, Tayseer Alshanableh. Petrol ve Gas boru hatlarinde sinir agi kullanarak yenim denetimi yapan sinyal isletme sistemi// IEEE Sinyal Isleme ve Uygulamaları Kurultayı, SIU'2001, Dogu Akdeniz Universitesi, Gazimagusa, KKTC, Mersin, Turkiye, 2001, 25-27 nisan, pp.468-471.
- [12] Fakhreddin Mamedov, Rahib Abiyev. Fuzzy Neural modeling of the nonlinear processes in condition of uncertainty// World Conference on Intelligent Systems for Industrial Automation, WCIS-2000, Tashkent, Uzbekistan, September 14-16, 2000, pp.310-315.
- [13] 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.
- [14] Fakhreddin Mamedov, Rahib Abiyev. Signal processing system using radial-basis neural network// IEEE NORDIG Signal Processing Symposium, June 13-15, 2000, Kolmarden, Sweden, NORSIG 2000, pp.263-265.

8.3. International and National Journals (Complet list more than 60 items)

- [1] Abiyev Rahib H., Kaynak Okyay, Alshanableh Tayseer. Mamedov Fakhraddin. [A type-2 neuro-fuzzy system based on clustering and gradient techniques applied to system identification and channel equalization](#)
Source: APPLIED SOFT COMPUTING Volume: 11 Issue: 1 Pages: 1396-1406 DOI: 10.1016/j.asoc.2010.04.011 Published: JAN 2011
- [2] Closed-loop analogue multiplier. "Device Construction", St. Petersburg, N^o 6, 1975.
- [3] Digital recorder for geophysical information. "Automation and Telemechanisation In Petroleum Industry", Moscow, N^o12, 197.
- [4] The control of oil well working order. Aaademy of Science USSR, "Defectoscopy", Moscow, N^o 4, 1977.
- [5] 3-D image signal processing system for the oil well parameters. "Automation and Telemechanisation in Petroleum Industry", Moscow, N^o 6, 1978.
- [6] System reconstruction and displaying cross-profile sections of oil well. "Oil and Gas", Baku, N^o 4, 1977.
- [7] Investigation of the sampling rate of profilemeter's signals. "Geophysical and Petroleum Geology", Moscow, N_o 5, 1979.
- [8] Analogue discreet interpolators. "Device construction", St. Petersburg, N_o 4, 1983.
- [9] Data processing system based on oscilloscope. "Oil and Gas", Baku, N^o 12, 1983.
- [10] Adaptive signal processing and recording system. "Oil and gas", Baku, N^o 5, 1985.
- [11] Error correcting azimuth measurement system. "Oil and gas", Baku, N^o 5, 1985.

- [12] Microprocessor system with ultra speed analogue - digital converter. "Microprocessor systems", Moscow, N^o2, 1987.
- [13] Signal processing and displaying system for diagnosis of oil well. "Device construction", St. Petersburg, N^o 7, 1987.
- [14] Microprocessor system for internal inspection of pipeline. "Oil and gas", Baku, N^o 2, 1988.
- [15] Noise estimation and cancellation algorithms for the systems of internal inspection of pipeline. "Oil and Gas", Baku, No 2, 1991.
- [16] Fakhreddin Mamedov, Rahib Abiyev and Tayseer Alshanableh. Signal processing system using radial-basis neural network for Inspection of Pipelines Corrosion// Pakistan Journal of Applied Science. Volume 1, N:2 April, 2001,pp.117-118.
- [17] 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.
- [18] Fakhreddin Mamedov, Rahib Abiyev. Signal processing system using radial-basis neural network// IEEE NORDIG Signal Processing Symposium, June 13-15, 2000, Kolmarden, Sweden, NORSIG 2000, pp.263-265.
- [19] 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.
- [20] Fakhreddin Mamedov, Rahib Abiyev. Fuzzy Neural modeling of the nonlinear processes in condition of uncertainty// World Conference on Intelligent Systems for Industrial Automation, WCIS-2000, Tashkent, Uzbekistan, September 14-16, 2000, pp.310-315.
- [21] Fakhreddin Mamedov, Rahib Abiyev and Tayseer Alshanableh. Petrol ve Gas boru hatlarinde sinir agi kullanarak yenim denetimi yapan sinyal isletme sistemi// IEEE Sinyal Isleme ve Uygulamalari Kurultayi, SIU'2001, Dogu Akdeniz Universitesi, Gazimagusa, KKTC, Mersin, Turkiye, 2001, 25-27 nisan, pp.468-471.
- [22] Fakhreddin Mamedov, Rahib Abiyev and Tayseer Alshanableh. Signal processing system using radial-basis neural network for Inspection of Pipelines Corrosion// Pakistan Journal of Applied Science. Volume 1, N:2 April, 2001,pp.117-118.
- [23] Fakhreddin Mamedov, Rahib Abiyev. Neural equalizer for channel distortion// Fifth International Conference on Application of Fuzzy Systems and Soft Computing, ICAFS-2002, Milan, Italy, September 17-19, 2002
- [24] Fakhreddin Mamedov, Rahib Abiyev, Tayseer Alshanableh. Recurrent neural network forequalization of channel distortion. Proceeding of International Symposium on Electrical Electronics and Computer Engineering, NEU CEE-2004, Nicosia, March 11-13, 2004, pp. 256-260.

- [25] Fakhreddin Mamedov, Jamal Fathi. Signal denoising using integration of wavelete & neural network. Proceeding of International Symposium on Electrical Electronics and Computer Engineering, NEU CEE-2004, Nicosia, March 11-13, 2004, pp. 276-280.
- [26] Fakhreddin Sadıkoğlu, Rahib Abiyev, Tayseer Alshanableh. Adaptive equalization of channel distortion using recurrent neuro - fuzzy network. Proceeding of International Conference on Computational Intelligence, ICC 2004, Nicosia, May 27 – 29, 2004, pp. 154-158.
- [27] Rahib Abiyev, Fakhreddin Mamedov, Tayseer Alshanableh. Neuro fuzzy system for channel noise equalization//Proceedings of the International Conference on Artificial Intelligence IC-AI'04 June 21-24, 2004, pp.243-248.
- [28] Fakhraddin Mamedov, Jamal Fathi Abu Hasna Car Plate Recognition by neural networks and image processing using intergration of wavelets . Creating The Future .3 FAE International Symposium 25-26 November 2004, pp 337-342.
- [29] Rahib Abiyev, Fakhreddin Mamedov , Tayseer Al-shanableh. Neuro-fuzzy system for Channel noise Equalization. International MultiConference in Computer Science & Computer Engineering. International Conference on Artificial Intelligence.IC-AI'04, Las Vegas, Nevada, USA, June 21-24, 2004
- [30] Rahib Abiyev, Fakhreddin Mamedov , Tayseer Al-shanableh. Nonlinear Neuro-fuzzy Network for Channel Equalization. Advances in Soft Computing, Springer, Berlin Heidelberg, 2007.
- [31] Rahib Abiyev, Fakhreddin Mamedov , Tayseer Al-shanableh. Equalization of Channel Distortions by Using Nonlinear Neuro-fuzzy Network. Lecture Notes in Computer Sciences, Springer-Verlag, Berlin Heidelberg, 2007.

8.4.Other Publications

8.4.1 Books:

1. Fakhraddin M. Signals, Systems and Transforms. NEU Press, 2002, 144 p.
2. Fakhraddin M. Şenol B., Fakhraddin M., and Khashman A. Graduate Studies: A Complete Reference, ISBN: 8359-06-01, NEU Press, TRNC, 2002, 175 p. NEU Press, TRNC, 2002,
3. Fakhraddin M., Özgür C.Ö. Graduation Project Handbook EE-400. Nicosia: NEU Press, NEU Press, TRNC, 2001, 26 p.
4. Fakhraddin M. Basic Communication Systems (25 Laboratory experiments). Ankara,1998, 60 p.
5. Fakhraddin M. Control system Engineering. Nicosia: NEU Press, 1999, 120 p.
6. Fakhraddin M. Telecommunications. Nicosia: NEU Press, 2000, 200 p.

9. Administrative Post:

Electrical and Electronic Engineering Department Chairman	1996-1998
Dean of Engineering Faculty	1998-Present
Vice-Rector	2000-Present

10. Scientific and Professional Membership:

Member of the IEEE Institute of Electrical and Electronics Engineers, USA	1998- Present
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11. Teaching coeres (last 3 years)

- Wireless and Personal Communication Systems
- Mobile Communication Systems
- Cryptography and Network Security
- Digital Signal Processing