# CURRICULUM VITAE Gorkhmaz Imanov

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## **Personal details**

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### Education

1959-1964	Azerbaijan State University	Economy	Baku	graduate with the honors diploma
1964-1967	Central Economic Mathematics Institute, Academy of Sciences of the USSR	Economy	Moscow	post-graduate Ph.D Economic Science
1973-1975	Central Economic Mathematics Institute, Academy of Sciences of the USSR	Economy	Moscow	Doctor of Economic Science, Professor

## **Employment**

2000-present	Head of "Fuzzy Economics" Department Institute of Cybernetics of the National Academy of Science of the Azerbaijan
1999-2000	Scientific adviser to the Ministry of Economic Development of the Azerbaijan
1993-1999	Senior researcher of the Institute of Problem Market Academy of Science of the Russia.

1987-1993	Director of the State Institute of Economics of the GOSPLAN of the Azerbaijan
1968-1987	Head of "Modeling of the Macroeconomics Systems" Department Institute of Cybernetics of the National Academy of Science of the Azerbaijan

#### Award

Laureate Azerbaijan State Prize in the field of a science in 1984.

#### **Books Published**

- 1. Models of forecasting and planning of development of a national economy, " Elm ", Baku 1976.
- 2. Models of planning of a national economy of union republic, Baku, "Elm", 1977.
- 3. The integrated system of economic balances of union republic, CEMI AS USSR, Moscow, 1981.
- 4. Models of economic systems, the Publisher of "Elm", Baku, 1983.
- 5. Econometrics model of the analysis of development of the Azerbaijan Soviet Socialist Republic, Academy of Sciences Azerbaijan Soviet Socialist Republic, Cybernetics Institute, Baku. 1987
- 6. Models of economic forecasting, Baku, "Elm", 1988.
- 7. Social and Economic State of Azerbaijan before and after Disintegration of the USSR, OESTERREICHISCHE National bank Vienna, 1992.
- 8. Economic consequences of Soviet Disintegration, Washington, D.C. Institute For international economics, 1993.
- 9. Azerbaijan's socio-economic development models: macroeconomic analysis, "Elm", Baku, 2001.
- 10. Modern economics, neural networks, fuzzy logic, Monograph, National Academy of Sciences, the "Science" Publishing House, Baku, 2003.
- 11. Problems of economic uncertainty and fuzzy models,, Baku, Elm, 2011, 322
- 12. Nuevos mercados para la recuperacion economica: Azerbaiyan, Book, Real Academia de Ciencias conomicas y Financieras, Presidentes de Honor: E.Kydland and etc., Barcelona, 2011.

#### **International conferences**

- Forecasting model of financial resources in system of economic planning, Proceedings conference « Theory and practice of scientific-technical and economical forecasting », AzINTO, 1976.
- Methodological questions of construction of model of economic system union republic for simulation experiments, Proceedings of symposium « Simulation of economic systems », Moscow, CEMI AS USSR, 1977.

- 3. Methodological questions of construction models of economic planning of union republic, Proceedings of scientific conference «Problem of perfection of planning of regional economy and increase of efficiency of production», Baku, AzSSR, 1979.
- 4. Some questions of application of a program-target method in planning practice, Proceedings conference «Regional complex programs and it is national economic values», Baku 1982.
- 5. Adaptation of an econometric model to the real system with the problem of dual control, Proceedings II All-Union Conference "Optimization and its applications to economy", Ashgabat, 1984.
- 6. Econometric Model of the Azerbaijan SSR, Proceedings of II All-Union Scientific Conference "Problems of macroeconometric modeling", Moscow, 1984.
- 7. Econometric analysis of the effect of STP to the growth of industrial production, Proceedings of the All-Union Conference on the implementation of EMM and computers in production management, Part 1, Moscow, 1985
- 8. The analysis of factors of economic growth by means of production function, Proceedings of conference «Organizational-economic problems of formation and realization of a scientific and technical policy in region», Gosplan AzSSR, Institute of Economy of the State Planning Committee of AzSSR, etc., Baku 1985.
- 9. Problems of construction of AMS in the Azerbaijan SSR, Proceedings of the All-Union conference «Theory and practice of improving the management of harvesting, transportation and procurement work in agriculture with the use of computers, SSTC of the USSR, Tashkent, 1986».
- 10. Simulation model of forecasting of the basic indicators of socio-economic development of union republic, Theses of reports of all-Union conference «Questions of comprehensive planning and management of union republics and economic region», Moscow, CEMI AS USSR, 1987.
- 11. Estimation of influence STP on development of the industry of union republic, Theses of reports of all-Union conference «Experience of integration of a science and manufacture of the countries of members CEMA», Moscow, IEFSTP AS of the USSR, 1987.
- 12. Econometric model of the forecasting, Proceedings of the All-Union Conference "The experience of integration of science and industry of the CEMA countries', Moscow, USSR IEFSTP, 1987.
- 13. Problems of definition of efficiency of foreign economic relations of union republic, Theses of reports of All-Union Meeting «Problems and prospects of scientific and technical cooperation of member countries CEMA», Moscow, 1988.
- 14. The system approach to the analysis of water supply in a large city, Proceedings of the conference on The system analysis approach to environmental and natural resources management in the Baltic region, Gdansk, Poland, 1988.
- 15. Modeling of economy of region taking into account social factors, Proceedings of reports of All-Union conference, Tashkent, 1988.
- 16. Social and economic development of Azerbaijan, Proceedings «Regional problems of transition to the market economy» COMF at the State Planning Committee of the USSR, Moscow 1991.

- 17. Relations of the property and socio-economic development in region, Proceedings of conference «Regional researches of economy of the USSR: new approaches» Moscow, 1991, 0,5.
- 18. Neuro-fuzzy economic analysis and forecasting, Baku State University, Proceedings of conference "Applied Mathematics and modern problems,", Baku, 2002.
- 19. The application of neural networks in forecasting the exchange rate and gross domestic product, Proceedings of conference «Information, cybernetic and modern problems of information technologies", the third volume, Baku, April 28-30, 2003.
- 20. Economic globalization and Azerbaijan, Proceedings international conference, organized by the Caucasus University, Baku, May 12-13, 2003.
- 21. Soft computing in the macroeconomic analysis, Second ICSCCW 2003, Antalya, Turkey, September 9-11, 2003..
- 22. Neuro-fuzzy model of the management of socio-economic systems, Proceedings International Scientific-Technical Conference, Ministry of Labour and Social Protection of Population and Department of Mathematical Economics and modeling of ecological and economic systems of the BSU, Baku, April 10 2004.
- 23. Fuzzy model of the comparative evaluation of investment projects, Abstracts and messages while fifth All-Russian Symposium "Strategic planning and enterprise development.", CEMI, Moscow, April 13-14, 2004.
- 24. Soft computing in modeling of socioeconomic systems management., International Conference on Computational Intelligence, Near East University, Nicosiia, North Cyprus, May 27-29 2004.
- 25. Macroeconomic fuzzy model of Azerbaijan, International Conference on Fuzzy Sets and Soft Computing in Economics and Finance, FSSCEF 2004, June 17-20, 2004, St. Petersburg, Russia, Volume II, pp.332-339.
- 26. Soft computing in forecasting of the budget income, The VI International Conference on Application of Fuzzy Logic and Soft Computing, Barcelona, Spanish, 28-30 September 2004.
- 27. Uncertainty and Fuzzy Models of economics, Third ICSCCW-2005, Antalya, Turkey, September 1-2, 2005.
- 28. Fuzzy model assessment meta-economical level, Proceedings VII International conference «System analysis and information technologies», 2005, Kiev, Ukraine, p.127.
- 29. Fuzzy Approach to Modeling of the Socio-Economic System, International Conference on Fuzzy Sets and Soft Computing in Economics and Finance, FSSCEF 2006, June 28 July 1, 2006, St. Petersburg, Russia, pp.114-122.
- 30. Fuzzy model of consumer behavior, Seventh International Conference of Application of Fuzzy System and Soft Computing. Edited by M. Jamshidi, W. Pedrycz, K.W. Bonfig, R. Aliev, R. Lewerenz. Dedicated to 85-th jubilee of Professor Lotfi Zadeh. ICAFS–2006, Siegen, Germany, September 13-14, 2006, pp. 103-109.pp. 182-188.
- 31. Fuzzy approach to modeling of the consumer demand, Proceedings of the International conference of "a cybernetics and computer science Problem», PCI 2006, volume III, Baku, Azerbaijan, on October, 24-26th, 2006, p. 101-104.

- 32. Fuzzy production function analysis of economic development factors, Proceedings of International Conference "Problems of Cybernetics and Informatics», PCI 2006, Volume III, Baku, Azerbaijan, on 24-26 October 2006, pp. 119-122.
- 33. Modeling the optimal distribution of investments, Proceedings of International Conference "Problems of Cybernetics and Informatics», PCI 2006, Volume III, Baku, Azerbaijan, on 24-26 October 2006, pp. 119-122.
- 34. Identification of Input-Output Balance Model by Soft Computing, 3<sup>rd</sup> International Symposium on Electrical, Electronic and Computer Engineering, ISEECE-2006, November 23-25, Nicosia, North Cyprus, Near East University, pp. 230-235.
- 35. The fuzzy approach to estimation of the index of population life quality, 3<sup>rd</sup> International Symposium on Electrical, Electronic and Computer Engineer ring, ISEECE-2006, November 23-25, Nicosia, North Cyprus, Near East University.
- 36. Fuzzy modeling of development of national economy, Ministry of Education of the Republic of Azerbaijan, Azerbaijan State Economic University, "The model of economic development of Azerbaijan", Proceedings of the International Conference on the theme, the fourth volume, Baku, May 12-13, 2006, pp.237-241.
- 37. Fuzzy models of planning of development of the enterprises, Materials of the eighth All-Russia symposium «Strategic planning and development of the enterprises»., CEMI (Central Economics and Mathematics Institute) the Russian Academy of Sciences (RAS), Moscow, on April, 10-11th 2007, p. 100-102.
- 38. Fuzzy approach to definition of economic utility, Theses of IX International conference «System analysis and information technologiesi», 2007, Kiev, Ukraine, p.113.
- 39. Fuzzy models of Azerbaijan sustainable development assessment, Fourth International Conference on Soft Computing, Computing with Words and Perceptions in System Analysis, Decision and Control, August 27-28, 2007, Antalya, Turkey, pp. 280-292.
- 40. The Fuzzy model of ecological-economic development, First International Conference on Soft Computing Technologies in Economy, November 19-20, 2007, Baku, Azerbaijan, pp. 93-99.
- 41. A fuzzy approach for the estimation of the level of region development, First International Conference on Soft Computing Technologies in Economy, November 19-20,2007, Baku, Azerbaijan, pp. 177-184.
- 42. A fuzzy approach for the estimation of financial stability in corporation, First International Conference on Soft Computing Technologies in Economy, November 19-20,2007, Baku, Azerbaijan, pp. 237-243.
- 43. Fuzzy approach to differentiation of indicators of quality of life of the population theses, X International conference «System analysis and information technologiesi», 2008, Kiev, Ukraine, p.197.
- 44. Fuzzy approach to assessment of financial stability of corporation Proceedings of the ninth symposium «Strategic planning and development of the enterprises»., CEMI the Russian Academy of Sciences (RAS), Moscow, on April, 15-16th 2008, p. 82-84.
- 45. Fuzzy approach to estimation of the environmental sustainability index, Proceedings materials of the Eight International Conference on Application of Fuzzy Systems and Soft Computing, 1-3 September 2008, Helsinki, Finland, pp. 207-212.

- 46. Fuzzy model assessment of the level of development of the Nakhcivan Autonomous Republic, Physics, Mathematics and Technical Sciences Thesis of the international conference, Nakhcivan 2008, pp 104-105
- 47. Fuzzy approach to socioeconomic system modeling, The Second İnternational Conference "Problems of Cybernetics and İnformatics", volume III, 10-12 September 2008, Baku, Azerbaijan, 117-120 pp.
- 48. Fuzzy models of the sustainable development assessment, Real Academia de Ciencias Economicas Y Financieras "The contribution of European science and culture to human and social progress", 1 de abril de 2008, Sesion Academica Internacional en Santiago de Compostela, Spain, 39-51 pp.
- 49. Early warning fuzzy system of the Financial Stability, The 3<sup>rd</sup> International Conference on Application of Information and Communications technologies, AICT 2009, 14-16 October 2009, Baku Azerbaijan.
- 50. Fuzzy evolution of the environmental sustainability index, Real Academia de Ciencias Economicas y Financieras, V Seminario Internacional, Barcelona 2009, pp.95-111.
- 51. Fuzzy models of corporative planning of agro-industrial enterprises. Problems of the formation of innovation agricultural production. International Scientific Practical Conference, Baku, 2010.
- 52. İmprecise Probability for estimated forecasting variants of the economical development, Proceedings of the MS'10 International Conferense, Computational Intelligence in Business and Economics, Barcelona, Spain, 15-17 July 2010, pp 465-472.
- 53. Fuzzy approach to forecasting economical development, Ninth İnternational Conference on Application of Fuzzy Systems and Soft Computing, İCAFS 2010, 26-27 August, Prague, Czech Republic, pp.165-173.
- 54. Forecasting economical development on the base fuzzy logic type-2, The Third International Conference "Problems of Cybernetics and Informatics", PCI 2010, 6-8 september, Baku, Azerbaijan. pp.181-185.
- 55. The problems of economic uncertainty, and fuzzy models. Proceedings scientific-practical conference. "Azerbaijan's economy, the completion of the transition period: analysis and results." The problems of the formation of a national development model. Baku 2010, pp.56-59.

#### Scientific and technical articels and works

- 1. Application of the distribution method of linear programming for studying cost of transportation, Scientists зап. Азгосунверситета of S.M.Kirova (a series of an economic science), №2, 1965.
- 2. Optimal plan of transportation of bread and factors influencing its change, «For technical progress» №7, Baku 1966.
- 3. Routing of transportation of trading cargoes, Transactions of National Academy of Science of Azerbaijan (series of an economic science), №2,1967.
- 4. Economic-mathematical models of optimal transportation of trading cargoes at the perspective planning, Transactions Azerbaijan State Institute of National Economy, №2, Baku 1967.

- 5. Cybernetics and optimal control of economic systems, Transactions Azerbaijan State Institute of National Economy, №4, Baku 1968.
- 6. Mathematical model of optimal functioning of the economic complex, «Technical progress» №1, Baku 1969.
- 7. Some questions of optimization of communications of trade and manufacture of consumer goods, «Technical progress» №12, Baku 1971.
- 8. Diversified model of a national economy of region, «Technical progress» № 9, Baku 1972.
- 9. Mathematical model of economic system, Materials scientific and technical conference, Azerbaijan State Institute of National Economy 1972.
- 10. Transportation expenditure and their decrease with application of mathematical methods, Azerneshr, Baku 1972.
- 11. Some questions of construction out of the integrated system of models of optimal planning of a national economy of union republic, «Researches on mathematical economy and adjacent questions.» The publisher The Moscow State University of M.V.Lomonosova, Moscow 1973.
- 12. Economic-mathematical models of planning of a national economy of union republic, the Collection «Questions of economic-mathematical modeling.», the publisher of the Moscow State University of M.V.Lomonosov, M, 1973.
- 13. Forecasting of development of a national economy of Azerbaijan to perspective, «Technical progress» №10, Baku 1973.
- 14. Model of optimal planning of a national economy of union republic, «Technical progress» №4, Baku 1973.
- 15. Methodological questions of optimal distribution of fund of capital investments, Proceedings of III conference." Methodological questions of definition of economic efficiency of increase organizational and a technological level of production" Azerbaijan State Institute of National Economy, Baku1973.
- 16. Methodological questions of optimal planning of personal consumption, «Economical information» AzINTI at GosPlane AzSSR, Baku 1973.
- 17. System of forecasting models of development national economy AzSSR on perspective, the report on XI scientific sessions devoted to results scientifically researches. AS AzSSR for 1973.
- 18. Macromodel of the perspective planning, «Technical progress» №4, Baku 1973.
- 19. Economic-mathematical model of the agro industrial complex, Problems mathematical cybernetics and the applied mathematics, Baku 1975.
- 20. Economic-mathematical models of optimization of connections of branches of a national economy, Problems mathematical cybernetics and the applied mathematics, Baku 1975.
- 21. Economic-mathematical model and a method of the decision of a problem conveys problem, Problems mathematical cybernetics and the applied mathematics, Baku 1975.
- 22. Model of definition of structure of a national economy, Transactions of National Academy of Science of Azerbaijan (economic science), №3,1975.

- 23. System of computing for forecasting of development of a national economy of AzSSR for prospect in the integrated system of planning, Transactions of National Academy of Science of Azerbaijan (economic science), 1976.
- 24. The forecast of population and a republic manpower for prospect, Transactions of National Academy of Science of Azerbaijan (economic science)1976.
- 25. Method vertical integration of system models of economic planning, «Ttechnical progress», №2, Baku 1977.
- 26. Methods of the decision of problems of pollution by manufacture of the environment, Transactions of National Academy of Science of Azerbaijan (economic science) №2, 1977.
- 27. Methodological questions of construction of the integrated system of balances of national economy of the union republic Transactions of National Academy of Science of Azerbaijan (economic science) №4, 1978.
- 28. Structurally functional model of economic system of union republic Transactions of National Academy of Science of Azerbaijan (economic science), №2,1979.
- 29. Coordination of indicators of the integrated system of economic balances of union republic, «Technical progress», №11, Baku 1979.
- 30. The valuable contribution to development of economic thought, Transactions of National Academy of Science of Azerbaijan (economic science), №3,1979.
- 31. Algorithm of calculation of a national product taking into account a condition of environment, Reports of National Academy of Science of Azerbaijan, №12, 1979.
- 32. Applications of a vector of Shepli for studying of alignment of forces in Parlament of Turkey, «Modeling Questions in the analysis of social and economic and political processes», CEMI AS the USSR, Moscow, 1979.
- 33. Social aspects of the problem of the environmental protection of Baku , AzINTI Gosplan Azerb. The Soviet Socialist Republic, Baku 1981.
- 34. Scientific basis of the planning, «Bakinskiy rabochiy», №38, 1981.
- 35. Criteria of an optimality, «Science and life», (in the Azerbaijan language) №3, 1981.
- 36. Model of economic system of union republic taking into account global foreign economic relations, Transactions of National Academy of Science of Azerbaijan (economic science), №2, 1981.
- 37. Methodological problems of the construction of the complex target programs, Transactions of National Academy of Science of Azerbaijan (economic science), №4, Baku 1981.
- 38. One approach to construction target complex program by using input-output balance, the Thematic collection of proceedings «problems of accounting, the analysis and machining of the economic information» Baku, Azerbaijan State Institute of the National Economy, 1982.
- 39. Problems of using of the integrated system of balances in construction of the sub-systems ASPR of the State Planning Committee of union republic, In collection "Problems of designing of a subsystem of the ASPR", Tallinn, Estonia 1982.

- 40. Problems of forecasting of indicators of foreign economic relations of union republic, Transactions of National Academy of Science of Azerbaijan (economic science)№2, 1982.
- 41. To a question of economic efficiency of intraregional specialization and concentration cotton-growing, Transactions of National Academy of Science of Azerbaijan (economic science), №4, 1982.
- 42. Problems of application of a program-target method in planning of social and economic development, National economy of Azerbaijan, №6, 1983.
- 43. Models of forecasting of development output of agriculture, Transactions of National Academy of Science of Azerbaijan (economic science), №2, 1983.
- 44. System of models of management of quality of water of river at planning of water security actions, Transactions of National Academy of Science of Azerbaijan (economic science), №4, 1984.
- 45. Econometrical analysis of influence STP in the industry of the Azerbaijan Soviet Socialist Republic ,AzINTI «Information review», Baku 1985.
- 46. At the economy panel, «Bakinskiy rabochiy» №75, 1987.
- 47. Simulating model of functioning and development of the food industry and its raw-material base, Collection. «Modelling of economic systems» vol.1, Baku, "Elm", 1987.
- 48. Economical model of the analysis and forecasting of social and economic development of the Azerbaijan Soviet Socialist Republic, Journal «National economy of Azerbaijan» №7, 1987.
- 49. A condition and optimal development of water system of a northeast zone of the Azerbaijan Soviet Socialist Republic, «Iinformation review» AzINTI, 1988, Baku.
- 50. Area of vital interests, Magazine «Azerbaijan», №1, 1989.
- 51. Ecology and economy, «Bakinskiy rabochiy», №38 from February, 14th 1989.
- 52. Program of development of the population, AzNIINTEN 1989.
- 53. About one approach to distribution of resources in target complex programs, Transactions of National Academy of Science of Azerbaijan (economic science), №2, 1988.
- 54. The new regional module wanted, "Azerbaijan" №171 (20939) on July, 23rd 1989.
- 55. The sovereignty of republic and economic independence, "Vishka" February, 28th 1990.
- 56. About one possibility of the application of production functions, Planning and management of social and economic development (the collection of proceedings IE and OIP the Siberian branch AS of the USSR), Novosibirsk, Russia 1989.
- 57. Social orientation of economic dynamics Azerbaijan the Soviet Socialist Republic., Sociological researches: experience, problems, prospects, Baku 1990.
- 58. The modern state and prospects of socio-economic development of the Azerbaijan Soviet Socialist Republic. Scientific-Research Economic Institute of the State Planning Committee of the Azerbaijan Soviet Socialist Republic. Science collections Vol XXIII, Baku, 1990.
- 59. Price reform: necessity and truth, "Azerbaijan genchleri" newspaper, March 28, 1991, № 36

- 60. Modern state and prospects of socio-economic development of Azerbaijan, "Business and life" magazine, January 1991, № 1.
- 61. To that to prefer? (About some questions of transition of republic to market economy), the Newspaper «Bakinskiy rabochiy» from July, 27th, 1991 №143.
- 62. Starting position of economy and choice model of management for development Transactions of National Academy of Science of Azerbaijan (economic science), №4, 1989.
- 63. We expect assistance from Turkey, 4.Boyut April, Turkey 1991.
- 64. Exit from crisis, «Bakinskiy rabochiy» № 15 (22294) on January, 22nd, 1992.
- 65. Measures on stabilization of economy and population social protection, Magazine «Economy and life» № 1-2, 1992, Baku.
- 66. Models market economy and directions socio economic development of Azerbaijan, Institute of Economy Gosplan of the Azerbaijan republic, Proceedings, volume XXIV, Baku, 1992.
- 67. Forecast-analytical researches of development Azerbaijan economy in the conditions of transition to market relations., Institute of Economy Gosplan of the Azerbaijan republic, Proceedings, volume XXIV, Baku, 1992.
- 68. The main directions of economic reform, "Hayat" newspaper, August 11, 1992 № 156.
- 69. Soviet regime did us lazy, "Zaman", 9 November, Turkey 1992...
- 70. To a question on privatization in the Azerbaijan republic, Transactions of National Academy of Science of Azerbaijan (economic science), №3-4, 1992, Baku.
- 71. Economic bases of a new society, Newspaper "Gunai" №78, on August, 17th 1995.
- 72. Foreign investments and prospects of development of economy of Azerbaijan, Italtel, Milan, Italy, 1996, 1.
- 73. The calculation of nominal and real multilateral exchange rates, Institute of Economics AS, a collection of articles "The main trends the socio-economic developmen in modern stage", the sixth edition, Baku, Elm, 2000.
- 74. World economy in the threshold of XXI century, "Science and technology innovations" № 1 (4) 2000, Science Technical Committee of the State of the Azerbaijan Republic, , Baku..
- 75. The application of fuzzy logic in the analysis of macroeconomic indicators, , Transactions of National Academy of Science of Azerbaijan (economic science), vol XXI, № 2, Baku, Elm, 2001.
- 76. The application of fuzzy logic to ranging indicators that affect Economic development, Transactions of National Academy of Science of Azerbaijan, vol XXII, № 2-3, Baku, Elm, 2002.
- 77. The concept of the socio-economic development forecast, AR National Academy of Sciences, Reports, vol LIX, № 3-4, Baku, 2003, pp.240-246.
- 78. Fuzzy model for the assessment of investment projects, Azerbaijan National Aviation Academy, scientific journals, vol. 6, № 1, Baku, 2004.

- 79. Information technology in socio-economic systems, "Information communication technologies journal", 12 (15), Baky, 2004, p. 240-246.
- 80. Application of Soft Computing for Evaluation of the Indicators of Socioeconomic System, Journal "Knowledge", "Education", Vol №3, Baku, 2004, pp.8-12.
- 81. The Fuzzy Model of Definition of the metaeconomic Level, Journal "Knowledge", Vol №2, Baku, 2005, pp.9-15.
- 82. Fuzzy model of a consumer demand, , Transactions of National Academy of Science of Azerbaijan, volume XXVI, №2, Baku, Elm, 2006, p. 137-142.
- 83. Fuzzy models of the assessment of a sustainable development of Azerbaijan, NASA Cybernetics Institute, 2006, 39.
- 84. Fuzzy model of definition of tue metaeconomic level, System research and informational technologies, № 4, 2006, Kiev, Ukraine that occurred, str.114-122.
- 85. The fuzzy approach to the estimation of the index of population life quality, Fuzzy Economic Review , Volume XII, Number 2, 2007, 85-93 pp., 9.
- 86. Fuzzy models of definition of level socio-economic developments of regions, the Economic science of modern Russia, №3(46) Moscow,2009, p. 93-102.

#### **Doctoral Theses Supervised**

- Application of economic-mathematical models and the COMPUTER for the decision of problems of optimization of transportations of trading cargoes, theses of candidate science dissertation., CEMI (Central Economics and Mathematics Institute) AS USSR, 1, Moscow 1967.
- 2. Problems of construction of the integrated system of models optimal planning national economy union republic (on an example of Azerbaijan of the Soviet Socialist Republic), Theses Doctoral dissertation, CEMI AS USSR, Moscow, 1975.

#### Professional activities

- Expert Higher Certifying Commission at the President of Azerbaijan.
- Member National Coordination Council on Organization and Coordination of Scientific Research of the Azerbaijan.
- Member Editorial board Scientific Journal "Neuro-fuzzy technologies modelling in economy" Kiev.
- Member dissertation council of the Cybernetic Institute National Academy of Sciences of Azerbaijan.
- Member of board Academician Nikolai Fedorenko International Scientific Foundation of Economic research – Moscow