VITA OF GHOLAM HUSSAIN ERJAEE

RESIDENCE

Work:

**Mathematics Department
Shiraz University
Shiraz, Iran
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Married Status: Married

EDUCATION

July 1993, Ph.D.   **Mathematics Department, Kansas State University Manhattan, KS, USA**

January 1989, M.Sc.   **Mathematics Department, Agriculture Technical State University, Greensboro, North Carolina, USA**

January 1978, B.Sc.   **Mathematics Department, Tehran Teacher Training University, Iran**

PROFESSIONAL EXPERIENCE

September 2009-…   Professor, Mathematics Department, Shiraz University, Shiraz, Iran

November 2007-2009   Professor, Mathematics & Physics Department, Qatar University

September 2003-2007   Associate Professor, Mathematics & Physics Department, Qatar University

Sept. 2002-Jun 2003   Visiting Professor, Mathematics Department, Qatar University

March 2000-Sept.2002 Associate Professor, Department of Mathematics, Shiraz University

August 1993-Feb. 2000 Assistant Professor, Department of Mathematics, Shiraz University

August 1989-Jun 1993 Teaching Assistant, Kansas State University, USA

August 1987- Jan. 1989 Teaching Assistant, A&T State University, USA

August 1995-April 2001 Vice-Dean for Research, College of Sciences, Shiraz University

March 2001-Jun 2002   Head of Shiraz University Press, Shiraz, Iran

August 1981-Jun 1987   Lecturer in Mathematics, Educational Institutions and High School Teacher, Shiraz, Iran

August 1985-Jun 1987   Member of Committee for Renewing the Mathematics Text Books from Eliminatory to High Schools, Iran

August 1985-Jun 1987   Head of the Teacher Training and Workshop Sessions for Method of Teaching Mathematics in High School, Shiraz, Iran

September 2000-2009   Member of Curriculum Designer Committee, Shiraz University Iran and Qatar University

TEACHING

Undergraduate:

- **Geometry**
- **Pre-Calculus**
- **Number Theory**

- **Elementary Algebra**
- **First Course in Statistic**
- **Research Methods**
- **Methods of Teaching Mathematics in, Elementary, Middle and High School**
- **Applied Mathematics for Management Students**
- **Applied Mathematics for Administration and Economic Students**
- **Applied Mathematics for Engineering Students**
- **Numerical Analysis I & 2**
- **Linear Algebra**
- **Calculus I, II and III**
- **Ordinary Differential Equations**
- **Partial Differential Equations**
- **Introduction to Dynamical Systems and Chaos Theory**

Graduate:

Two semester courses in each following subjects

- **Advanced Numerical Analysis**
- **Theory of Dynamical Systems and Chaos**
- **Theory of Ordinary Differential Equations**
- **Numerical Solution for Ordinary Differential Equations**
- **Fractional Differential Equations and Their Applications**

RESEARCH ACTIVITIES

Research Interests:
- **Applied Mathematics**
- **Numerical Analysis**
- **Differential Equations & Dynamical Systems**
- **Chaos and Chaos Synchronization**
- **Fractional Differential Equations**
- **Mathematical Modeling in Engineering and Health Sciences**

LANGUISHES

Farsi, English and fairly Arabic

REFEREED PUBLICATIONS

1. F. Keshtkar, G.H. Erjaee and M. Boutefnouchet, On Stability of Equilibrium Points in Nonlinear Fractional Differential Equations and Fractional Hamiltonian Systems, *Journal of Complexity, Wiley Periodicals, Inc., Vol. 00 No. 00, 2014.*

2. F. Keshtkar, H. Kheiri and G. H. Erjaee, Fixed Pointes Classification of Nonlinear Fractional Differential Equations as a Dynamical System, *Journal of Fractional Calculus and Application*, Vol. 5(2) 2014, 59-70.

3. E. Rahimi, H. Taghvafard and G.H. Erjaee, Fractional Differential Transform Method for Solving a Class of Weakly Singular Volterra Integral Equations, *Iranian Journal of Science & Technology,* (2014) 38A1: 69-73.

4. M. H. Atabakzadeh, M. H. Akremi and G. H. Erjaee, Chebyshev Operational Matrix Method for Solving Multi-order Fractional Differential Equations, *Applied Mathematical Modeling 37 (2013) 8903–8911.*

5. G. H. Erjaee , M. H. Ostadzad, K. Okuguchi and A. Rahemi, Fractional Differential Equations System for Commercial Fishing under Predator Prey Interaction, *Journal of Applied Nonlinear Dynamics* 2(4) (2013) 407–415.

6. G. H. Erjaee, M.H. Ostadzad, S. Amanpour, K. B. Lankarani, Dynamical Analysis of the Interaction between Effector Immune and Cancer Cells and Optimal Control of Chemotherapy, *Nonlinear Dynamics, Psychology, and Life Sciences,* Vol. 17, No. 4 *: 69-73* (2013) 449-463.

7. M.H. Akrami, M.H. Atabakzadeh, G.H. Erjaee, The Operational Matrix of Fractional Integration for Legendre Polynomials, *Iranian Journal of Science & Technology* (2013) 37A4: 439-444.

8. G. H. Erjaee, M. Frotan, S. Keshtkar, P. ShojaMozafa and A. Benabas, Correlation between Mortality of Prehospital Trauma Patients and Their

Heart Rate Complexity, *International Journal of Clinical Medicine*, 2012, 3, 568-573 doi:10.4236/ijcm.2012.37103 *Published Online December 2012 (http://www.SciRP.org/journal/ijcm).*

9. L. M. Saha, S. Prasad and G. H. Erjaee, Interesting Dynamic behavior in some Discrete Maps, *Iranian Journal of Science & Technology IJST* (2012) A3 *(Special issue-Mathematics)* 383-389.

10. G. H. Erjaee and H. Taghvafard, Bifurcation Analysis of (2+1) Dimensional Konopelchenko-Dubrovsky System Presented by a Fractional Differential Equations, *Journal of Statistics and Mathematics* ISSN: 0976-8807 & E-ISSN: 0976-8815, Volume 3, Issue 2, (2012) 99-102.

11. G. H. Erjaee, M. Shahbazi and A. Erjaee, Dynamical Analysis of Mathematical Model Presented by Fractional Differential Equations, Describing the Interaction Between Leukemic Cancer Cells, T Cells and Drug Treatment with a Drug Optimal Control, *Open Access Scientific Reports,* Volume 1, Issue 8 , (2012), http://dx.doi.org/10.4172/scientificreports.390.

12. H. Taghvafard and G. H. Erjaee, On Solving A System of Singular Volterra Integral Equations of Convolution Type, *Communications in Nonlinear Science and Numerical Simulation, ElSEVIER, UK,* 16 (2011) 3486-3492.

13. G. H. Erjaee, H. Taghvafard and M. Alnasr, Numerical Solution of the High Thermal Loss Problem Presented by a Fractional Differential Equation, *Communications in Nonlinear Science and Numerical Simulation, ElSEVIER, UK,* 16 (2011) 1356-1362.

14. H. Taghvafard and G. H. Erjaee, Phase and Anti-phase Synchronization of Fractional Order Chaotic Systems Via Active Control, *Communications in Nonlinear Science and Numerical Simulation, ElSEVIER, UK,* 16 (2011) 4079-4088.

15. G. H. Erjaee and H. Taghvafard, Stability Analysis of Phase Synchronization in Coupled Chaotic Systems Presented by Fractional Differential Equations, *Nonlinear Dynamics and Systems Theory,* 11 (2) (2011) 147-154.

16. M. Kazemi and G. H. Erjaee, Analytical and Numerical Solutions of Different Parabolic Heat Equations Presented in the form of Multi-term Fractional Differential Equations, *Iranian Journal of Science, Transaction A, IJST* (2011) A3: 185-192.

17. H. Taghvafard and G. H. Erjaee, A Criterion for the Stability Analysis of Phase Synchronization in Coupled Chaotic System, *Electronic Journal of Theoretical Physics Electronic Journal of Theoretical Physics,* 8, No. 25 (2011) 245–252.

18. H. Taghvafard and G. H. Erjaee, Two-dimensional Differential Transform Method for Solving Linear and Non-linear Goursat Problem, *International Journal of Engineering and Mathematical Sciences* 6:2 (2010) 103-106.

19. M. Alnasr and G. H. Erjaee, Application of the Multistage Homotopy Perturbation Method to the Bifurcation of Some Dynamical Systems, *Iranian Journal of Science and Technology, Transaction A, Vol*. 4, (2010).

20. G. H. Erjaee, H. R. Z. Zangeneh and N. Nyamorad, Limit Cycles of a Class of Hilbert's Sixteenth Problem Presented by Fractional Differential Equations, *Advances in Difference Equations Volume* 2010 (2010), Article ID 938180, 12 pages.

21. G. H. Erjaee and M. Alnasr, Phase Synchronization in Coupled Sprott Chaotic Systems Presented by Fractional Differential Equations, *Discrete Dynamics in Nature and Society Volume 2009, Article ID* 753746, (2009).

22. M. Alnasr and G. H. Erjaee, Application of Multistage Homotopy Perturbation Method for the Singular Perturbation Initial and Boundary Value Problems, *International J. of Math. Sci. & Engg. Appls. (IJMSEA)*, Vol. 3 No. I, (2009) 1-14.

23. S. Moumani, G. H. Erjaee and M. Alnasr, The Modified Homotopy Perturbation Method for Solving Strongly Non-linear Oscillators, *Computers and Mathematics with Applications*, 58 (2009) 2209-2220.

24. G. H. Erjaee, On the Numerical Stability of Chaotic Synchronization Using Nonlinear Coupling Function, *Chaos, Solitons & Fractals, The*

Interdisciplinary Journal of Nonlinear Science Nono and Quantum Technology, Elsevier Science Publisher, UK, 39 (2009) 682–688.

25. G. H. Erjaee, Analytical Justification of Phase Synchronization in Chaotic Systems, Chaos, Solitons & Fractals, *The Interdisciplinary Journal of Nonlinear Science Nono and Quantum Technology, Elsevier Science Publisher, UK*, 39 (2009) 1195–1202.

26. G. H. Erjaee & S. Momani, Phase Synchronization in Fractional Differential Chaotic, Physics Letters A, *Elsevier Science Publisher, UK, Physics Letters A* 372 (2008) 2350–2354.

27. G. H. Erjaee, Numerical Bifurcation of Predator-Prey Fractional Differential Equations with a Constant Rate Harvesting, 2008 *J. Phys.: Conf. Ser.* 96 012045.

28. G. H. Erjaee, Bifurcation Analysis of Predator-prey Systems with Constant Rate Harvesting Using Non-Standard Discretization. *Nonlinear Dynamics, Psychology, and Life Sciences, USA*. Vol. 11, No. 3, (2007) 333-348.

29. G. H. Erjaee and K. Okuguchi, Bifurcation and Stability in Imperfectly Competitive International Commercial Fishing, *Keio Economic Studies, Vol. XLIII, No. 2, Japan (*2006).

30. G. H. Erjaee, Bifurcation and Stability Analysis of an International Fishing Model, *Ganita Publishing, India, Vol*. 58, No. 2 (2007) 127-136.

31. G. H. Erjaee, Chaos and Complexity and Some of their Applications, *Far East Journal of Dynamical Systems, 8*(1) (2006) 115-132.

32. G. H. Erjaee, and Fozi M. Dannan, Stability Analysis of Periodic Solution to the Nonstandard Discretized Model of the Lotka-Volterra Predator-Prey System. *International Journal of Bifurcation and Chaos, Vol. 14, No.* 12 (2004) 4301-4308.

33. G. H. Erjaee, M. H. Atabakzade and L. M. Saha, Interesting Synchronization-like Behavior, *International Journal of Bifurcation and Chaos, V*ol. 14, No. 4 (2004) 1447-1453.

34. **L. M. Saha, G. H. Erjaee and M. Budhraja. Controlling Chaos in 2-Dimensional System,** *International Journal of Science & Technology, Transaction A, and Vol. 28, No. A2, (2004) 219-226.*

35. **G. H. Erjaee, On the Asymptotic Stability of a Dynamical System,** *Iranian Journal of Sciences and Technology, Transaction A,* **Vol. 26, No. A1 (2002) 132-135.**

36. **G. H. Erjaee, M. Hasanzadeh, Numerical Solution to the Fredholm Integral Equation of Second Kind, Using Multigrid Method,** *Journal of Science, Tehran University, Vol. 27, No. 2 (2002) 235-254.*

37. **G. H. Erjaee and R. Kumar, Composition Operators on** $L^{\phi^{-1}}$ **- Space,** *Proceeding of the Sixth Conference Functional Spaces,* **(2001) 114-119.**

38. **G. H. Erjaee, General Synchronization of Coupled Pair of Chaotic one Dimensional Gaussian Map,** *Journal of Sciences, Islamic Republic of Iran, Vol. 12, No. 3 (2001) 251-257.*

39. **G. H. Erjaee, Methods of Controlling Chaos,** *Golchen, Shiraz University Press,* **Vol. 7, No. 1 (2001) 45-63.**

40. **G. H. Erjaee, Numerical Bifurcation and Stability Analysis of the Nechluas Pull Reaction as an Application of Class of Integro-Partial Differential Equation,** *Southwest Journal of Pure and Applied Math, USA. N*o. 2 (2000) 88-121.

41. **G. H. Erjaee, Derivation of the Unsteady-State Interaction by Exchange with the Mean Model,** *Iranian Journal of Science and Technology, Vol. 22, No. 2, Transaction A (1998)* **185-194.**

42. **G. H. Erjaee, The Generalized Eigenvalue Problem and Differential Equation, SAAS Publishing, Hungary, PU.M.A. Vol. 7, No. 1-2, (1996) 69-81.**

43. **G. H. Erjaee, Numerical Simulation of a Class of Integro-Partial Differential Equations Using a Transformation Technique,** *Bulletin of the Iranian Mathematical Society, Vol. 22, No. 2 (1996) 19-40.*

44. **G. H. Erjaee**, The Generalize Eigenvalue Problem, *Golchen, Shiraz University Press, Vol*. 3, No. 1 (1994) 25-33.

45. **R. O. Fax, G. H. Erjaee and Q. Zou, Bifurcation and Stability Analysis of Micro mixing Effects in the Chlorite Iodide Reaction,** *Chemical Engineering Science, USA. Vol*. 49 (1994) 004-020.

46. **G. H. Erjaee, Transformation of a Class, of ODE Using Lagurre Polynomial.** *Golchen, Shiraz University Press Vol*. 2, No. 2 (1993) 4-10.

47. **M.H. Akrami and G.H. Erjaee, Existence of Positive Solutions for a Class of Fractional Differential Equations Systems with Multi-point Boundary Conditions,** *in the publication process*.

48. **M.H. Atabakzadeh, G.H. Erjaee, Study of Well-posed Conditions for a Class of Boundary Value Problems Presented by Fractional Order Derivative,** *in the publication process*.

49. **G.H. Erjaee and M.H. Taghvafard, H-Infinity Synchronization of a Nonlinear Financial System,** *in the publication process.*

SOME CONFERENCE PROCEEDING PUBLICATIONS

50. **M.H. Atabakzadeh and G.H. Erjaee, Stability Solution in a class of Fractional Differential Equations,** *44th Iranian International Conference on Mathematics, Mashhad University, Iran,* August 27-30, (2013).

51. **M.H. Akrami and G.H. Erjaee, A new method for solving fractional Black-Scholes European option pricing equation,** *44th Iranian International Conference on Mathematics, Mashhad University, Iran,* August 27-30, (2013).

52. **M.H. Akrami, M.H. Atabakzadeh and G.H. Erjaee, A matrix approach to solving a system of fractional differential equations**, *43th Iranian International Conference on Mathematics, Tabriz University, Tabriz Iran,* August 27-30, (2012).

53. **M.H. Atabakzadeh, M.H. Akrami and G.H. Erjaee, On solving of converted Multi-order fractional differential equation,** *43th Iranian International*

Conference on Mathematics, Tabriz University, Tabriz Iran, **August 27-30, (2012).**

54. **G.H. Erjaee (Invited Speaker) and A. Frotan Complex Nonlinearity and its Applications,** *43th Iranian International Conference on Mathematics, Tabriz University, Tabriz Iran,* **August, 27-30 (2012).**

55. **G. H. Erjaee and M. Ostadzad, Stability Analysis of an HIV,AIDS Epidemic Model with Treatment Presented by Fractional Differential Equations,** *41th Iranian International Conference on Mathematics 12-15 September* **(2010),** *University of Urmia, Urmia, Iran.*

56. **G. H. Erjaee, H. Taghvafard. On Solving the High Thermal Loss Problem,** *Proceeding of the 4th Applied Mathematics Conference, Zahedan, Iran, March* **10-12, (2010).**

57. **G. H. Erjaee H. Application of Fractional Calculus in Chaos and Synchronization,** *Proceeding of the 4th Applied Mathematics Conference, Zahedan, Iran, March* **10-12, (2010).**

58. **M. Kazemi and G. H. Erjaee, Analytical and Numerical Solutions of Different Parabolic Heat Equations Presented in the form of Multi-term Fractional Differential Equations,** *Proceeding of the 4th Applied Mathematics Conference, Zahedan, Iran, March* **10-12, (2010).**

59. **M. H. Ostadzad and G. H. Erjaee, Bifurcation Analysis of Predator-Prey System with Constant Rate Harvesting Presented by Fractional Differential Equations,** *Proceeding of the 4th Applied Mathematics Conference, Zahedan, Iran, March* **10-12, (2010).**

60. **G. H. Erjaee, H. Taghvafard and A. Zare, Stability and Bifurcation Analysis of an SIS Epidemic Model with Treatment Presented by Fractional Derivative,** *Proceeding of the Second Conference of Application of Mathematics and Theory of Control in Medical, Mashhad, Iran,* **(2010).**

61. **G. H. Erjaee, Non-Standard Discretization of Fractional Differential Equations,** *ICCSA 2009, The 3rd International Conference on Complex Systems and Applications, University of Le Havre Le Havre, Normandy, France* **(2009).**

62. L. M. Saha, G. H. Erjaee, R. Sharma and T. P. Sharma, Influence of Tidal and Magnetic Forces on the Motion of a Satellite, *Proceedings of National Academy of Sciences, Allabad, IUCAA. Proceedings of Celestial Mechanic, (*2002).

63. L. M. Saha, T. P. Sharma, G. H. Erjaee, R. Sharma and P. Dixit, Hill's Stability Criteria in the Oblate Restricted Three-Body Problem, *National Academy of Sciences, Allabad, IUCAA. Proceedings of Celestial Mechanic,* (2002).

64. L. M. Saha, T. P. Sharma and G. H. Erjaee, Use of Lie Technique in Restricted Three Body Problems. *National Academy of Sciences, Allabad IUCAA, Proceedings of Celestial Mechanics*, (2002).

CONFERENCE PRESENTATIONS AND SEMINARS

- Conference (Invited Speaker), Complex Nonlinear Systems: From Basic Science to Application, Samarkand, Uzbekistan. October 7-11, (2013).

- Conference (Invited Speaker), *43th Iranian International Conference on Mathematics, Tabriz University, Tabriz Iran, August 27-30, (2012).*

- Conference, Nonlinear Dynamics, Psychology, and Life Sciences, Barcelona University, Barcelona, Spain, August 4- 8, (2012).

- The 8th AIMS Conference on Dynamical Systems, Differential Equations and Application, Dresden, Germany, May 25-28, (2010).

- The 4th International Nonlinear Sciences Conference, University of Palermo, Palermo, Italy, March 15-17, (2010).

- ICCSA 2009, The 3rd International Conference on Complex Systems and Applications, University of Le Havre Le Havre, Normandy, France, June 29 - July 02, (2009).

- Conference, Nonlinear Dynamics, Psychology, and Life Sciences, Johns Hopkins University, Maryland USA, August 4- 8, (2006).

- 2007 International Symposium on Nonlinear Dynamics, Shanghai, China, 27-30 October, (2007)

- **16th Annual Conference of Nonlinear Dynamics, Psychology, and Life Sciences, Herakeliun, Greece March 8-12, (2006).**

- **Conference on Celestial Mechanics and Dynamical System, IUCAA, Pune, India, October 8-11, (2001).**

- **Workshop on Dynamics of Non-Equilibrium System, the Abdus Salam International Center for Theoretical Physics, Trieste, Italy, August 16-27, (1999).**

- **Golden Jubilee International Conference on Mathematics, Department of Mathematics and Astronomy, Lucknow University, Lucknow, India, January 1-4, (2000).**

- **Application of Dynamical System, Society for International & Industrial and Applied Mathematics, Snowbird, Utah, USA, October 15-18, (1992).**

- **International Conference on Chemical Engineering Miyamae, USA, , January 2-5, (1993).**

- **32nd Iranian Mathematics Conference, Babolsar, Iran, August 27-30, (2001).**

- **Seminar on Numerical Analysis and its Application, Zahedan, Iran, November 15-17, (2000).**

- **Seminar on Differential Equations, Dynamical Systems, and Application, Mashhad, Iran, May 4-5, (2000).**

- **Physical-Chemistry Conference, Shiraz, Iran, April 11-13, (2000).**

- **26nd Iranian Mathematics Conference, March 27-30, (1995).**

- **27th Iranian Mathematics Conference, March 27-30, (1996).**

GRADUATE SUPERVISION

Some of the Dissertations Directed:

- **January 2013, L. Moslehi**
  Chaos Synchronization Using Active Control, Shiraz University, Shiraz, Iran

- **January 2013, E. Benabbas**

Mathematical Modeling of Cancer Radiovirotherapy, Shiraz University, Shiraz, Iran

- August 2012, F. Keshtkar
  Travelling-wave Analysis of a Model of Immune Response to Cancer, Shiraz University, Shiraz, Iran

- December 2011, M. Loghavi,
  Synchronization in Chaos and Some of its Applications, Shiraz University, Shiraz, Iran

- July 2010, M. Kazemi,
  Analytical and Numerical Solutions of Different Parabolic Heat Equations Presented in the form of Multi-term Fractional Differential Equations, Shiraz University, Shiraz, Iran

- July 2010, M. H. Ostadzad ,
  Bifurcation Analysis of Predator-Prey System with Constant Rate Harvesting Presented by Fractional Differential Equations, Shiraz University, Shiraz, Iran

- July 2004, Z. Afkary
  Lyapunov Exponents and Chaotic Synchronization, Shiraz University, Shiraz, Iran

- July 2003, F. Naghshzan
  Nonstandard Discretized Model of the Lotka- Volterra Predator-Prey System, Shiraz University, Shiraz, Iran

- August 2001, M. Atabaczadeh
  Interesting Synchronization Behavior of Two Chaotic Systems, Shiraz University, Shiraz, Iran

- September 2001, A Moameni
  Synchronization Methods of Two Chaotic Systems, Shiraz University, Shiraz, Iran

- April, 1998, A. Darabi
  Bifurcation and Stability Analysis of Nicholas & Pull Reaction, Shiraz University, Shiraz, Iran

- August 1998, M. Hasanzadeh
  Numerical Solution of Fredholm Integro-Differential Equations of Second Kind, using Multi-grid Method

- September 1998, A. Roholahi
  Bifurcation Analysis of Chloride-Iodide Reaction, Shiraz University, Shiraz, Iran

Some of the Ph.D. Advisory Dissertation Committees:

- **October, 2013, A. Paryavi**

  Asymptotic Behavior of Solutions for Nonlinear Hyperbolic Equations in Bounded and Unbounded Domains, Shiraz University, Shiraz, Iran.

- **October, 2013, M. Shahrozi**

  Global Results on Some Nonlinear Partial Differential Equations for Direct and Inverse Problem, Shiraz University, Shiraz, Iran.

- **January, 2013, M. Tahamasebpur**

  Pressure Time Series Analysis Techniques Based on Frequency and Chaos Theory, Tehran University, Tehran, Iran.

- **August, 2012, R. Kazemi**

  Bifurcation of Limit Cycles in Small Perturbations of a Hyper-elliptic Hamiltonian System with two Nilpotent Saddles, Isfahan University of Technology, Isfahan, Iran.

- **November, 2012, A. Atabagi**

  Limit Cycle Bifurcations in Some Hamiltonian Systems, Isfahan University of Technology, Isfahan, Iran.

- **September 2004, Purnime Dixit**

  Hill's Stability Criteria in the Oblat Restricted Three-Body Problem. University of Delhi, India

- **August 2000, T. P. Sarma**

  Study of Chaotic Motion in Some Problems of Celestial Mechanics, University of Delhi, India

- **September 1998, A. Moamenzadeh**

  Chaotic Motion of some Three Body Problems, Ferdosy University, Mashhad, Iran

- **August 1997, A. Vaezpour**

  On the Characterization of the Closure of Polynomials in L2 Spaces, Shiraz University, Shiraz, Iran

- **August 1995, K. Aslamzadeh**

  Representations of Certain Topological Semi groups, Esfahan University, Esfahan, Iran

RESEARCH GRANTS

Year	Grant amount, US $	Source of funding
✓ 2013	170,000	Qatar National Research Found
✓ 2012	350,000	Qatar National Research Found
✓ 2011	8,000	Health Policy Center, Shiraz Uni.
✓ 2011	5,000	Islamic Azad Uni., Shiraz Bera.
✓ 2009	103,000	Qatar National Research Found
✓ 2007	12,000	Qatar University
✓ 2006	20,000	Qatar University
✓ 2001	5,000	Shiraz University, Iran
✓ 2000	10,000	Ministry of Higher Education, Iran
✓ 1992	90,000	K.S. University, U.S.A.
✓ 2000	7,000	Third World Academy of Sciences (TWAS), in Italy

- ✓ **One Academic-Year Sabbatical Leave, Granted by Shiraz University, 2002-2003 in Qatar University**

SCIENTIFIC SOCIETIES MEMBESHIP

- ✓ **Chief Editor of Mathematics Section of Iranian Journal of Sciences and Technology, Transaction A**
- ✓ **Member of Nonlinear Dynamics, Psychology, and Life Sciences, USA, 2005-2010**
- ✓ **Member of Mathematics Organization of Golden Jubilee of India, 2000-2010**
- ✓ **Member of Iranian Mathematical Society, 1993-2012**

BOOKS

1- **Theory of Differential Equations an Introduction Book. Shiraz University Press (2000), ISBN: 964-462-312-6**

2- **Translated Book from English to Persian. Chaotic Dynamic an Introduction (1993), By: Backer, G. and Gllub, J. ISBN: 964-462-291-x**

BOOKS EDITORIAL BOURD

3- **Ordered Sets, Springer Publisher, (2005), ISNB: 0-387-24219-B**

4- **Regularity Properties of Functional Equations in Several Variables, Springer Publisher, (2005), ISBN: 0-387-24413-1**

5- **Projection Methods, Kluwer Academic Publishers, 2004, ISBN: 1-4020-7572-3**

6- **Functional Equations Results and Advances, Kluwer Academic Publishers, (2002), ISBN: 1-4020-0485**

OTHERS

- ✓ **Reviewer of Iranian Journal of Science and Technology, Shiraz University, Iran**
- ✓ **Reviewer of Journal Economic Modeling Elsevier Publisher**
- ✓ **Reviewer of Iranian Journal of Science and Technology**
- ✓ **Reviewer of Sultan Qaboos University Journal for Science**
- ✓ **Reviewer of Chemical Product and Process Modeling, The Berkeley Electronic Press**
- ✓ **Reviewer of Several other Regional Journals**