

# Curriculum Vitae



(Last Updated July 2021)

[My resume is as follows:](#)

## (I) Personal Details

Name: **Mohammad Hossein**  
Surname: **Rahmani Doust**  
Abbreviation: **M.H. Rahmani Doust**  
Present Job: **Permanent University Faculty Member, Asst. Professor of Mathematics.**  
Birth Date: 25 May 1970, Gender: Male, Nationality: I R Iranian, Marital Status: Married  
Mail Address: **Department of Mathematics, School of Sciences, University of Neyshabur, Neyshabur, I R Iran.**  
  
ORCID: <https://orcid.org//0000-0001-6603-5503>

Homepage: <http://rahmanidoust.neyshabur.ac.ir>

## (II) Qualifications and Degrees

Grade	Topic	University, City, Country	Studies Duration
<b>B.Sc.</b>	Mathematics Training	Ferdowsi University of Mashhad, I R Iran	1990-1994, With Grant of I R Iran

Grade	Topic	Dissertation Title	Supervisor	Studies Duration
<b>M.Sc.</b>	Pure Mathematics	Global Analysis of System of Predator-Prey Equations	M. Hesaaraki, Sharif University of Technology, I R Iran	1995 – 1997, With Grant of I R Iran
<b>P.h.D.</b>	Pure Mathematics	A Study on Systems of Nonlinear Differential Equations and Applications	R. Rangarajan, University of Mysore, India	2005– 2008, With Grant of I R Iran

## (II) Keynote and Invited Plenary Speaker

### on International Conferences

1. 26<sup>th</sup> International Conference of Jangjeon Mathematical Society South Korea, Acharya Institute of Graduate Studies, (ICJMS 2013).
2. 29<sup>th</sup> International Conference of Jangjeon Mathematical Society South Korea, Pondicherry University, (ICJMS 2016).
3. International Conference on Advances in Mathematics and Computing, Berhampur University, (ICAMC 2020).
4. 3<sup>rd</sup> International Conference on Advanced Mathematical Analysis and its Applications, VSS University of Technology, (ICAMAA 2020).
5. International Conference on Recent Trends in Engineering and Science, Jagadambha College of Engineering & Technology, Maharashtra, (ICRTES 2020).
6. International Conference on Informatics, Robotics, Construction & Communication, Peri Institute Of Technology Chennai, India (ICIRCC 2020).
7. 26<sup>th</sup> International Conference of International Academy of Physical Sciences ON Convergence of Computing, Statistics and Operations Research - Empowering Youth for Sustainable Future (CONIAPS-XXVI 2020).

## (IV) List of Publications

### IV-A; Books:

1. M.H. Rahmani Doust; Introduction to Ordinary Differential Equations and its Applications, Ilam University Press, I R Iran, 2004.
2. M. H. Rahmani Doust; Systems of Non-Linear Differential Equations and Ecology: Basic, Concepts, Methods, Scholar Press, Germany, 2013.
3. M.H. Rahmani Doust, F. Haghighifar; Differential Equations and Ecology, Vol. 1, Nowrouzi Press, University of Neyshabur, I R Iran, 2013.
4. M.H. Rahmani Doust, S.A. Mousavi, F. Haghighifar; Introduction to Group Theory, Nowrouzi Press, University of Neyshabur, I R Iran, 2013.
5. M.H. Rahmani Doust; Introduction to Fuzzy Sets and Fuzzy Logic, Nowrouzi Press, University of Neyshabur, I R Iran, 2013.
6. M.H. Rahmani Doust, S.Gholizade, F. Mozafari; Differential Equations, Dynamical Systems and An Introduction to Chaos, Vol.1, Nowrouzi Press, University of Neyshabur, I R Iran, 2014.
7. M.H. Rahmani Doust, S.Gholizade, F. Mozafari; Differential Equations, Dynamical Systems and An Introduction to Chaos, Vol.2, Nowrouzi Press, University of Neyshabur, I R Iran, 2015.

### IV-B; Research Papers:

2007

8. M.H. Rahmani Doust, Analysis of System of Coexistence Equation; *Ultra Scientist*, **19**(1), 49-56, 2007.
9. M.H. Rahmani Doust, An Analysis of System of Competition Equations; *Ultra Scientist*, **19**(2), 393-400, 2007.

## 2008

10. M.H. Rahmani Doust, R. Rangarajan, M.N. Modoodi, Analysis of Predator-Prey Equations with Intraspecies Coexistence, *Ultra Sciences*, 20 (3), 2008.
11. M. N. Modoodi, M. H. Rahmani Doust, Empowered Knowledge and Under Empowered Ethics: Need to Eco-Friendship, *Asian Journal of Development Matters*, Nov. 2008.
12. M.H. Rahmani Doust, R. Rangarajan, Global Analysis of a Lotka- Volterra Predator-Prey Model with Intraspecies Competition, *Journal of Analysis and Computation*, 4(1), 2008.

## 2009

13. M. N. Modoodi, M.H. Rahmani Doust, Living Intelligently in The Intelligent Environment, *Journal of intelligent System Research*, 3(1), 2009.

## 2010

14. M. N. Modoodi, S. G. L. Belagali, M.H. Rahmani Doust, Pesticide Residues in Agricultural Water Sample of Mysore District, *Asian Journal of Development Matters* 5(3), 255-261, 2010.

## 2011

15. M.H. Rahmani Doust, F.Haghighifar, The Lotka-Volterra Predator-Prey System; Having Interspecific Interactions or Harvested Factor *Journal of Intelligent System Research*, 5(2), 105-111, 2011.
16. M.H. Rahmani Doust , F.Haghighifar, Two Species Lotka-Volterra Harvested Model Having Competition Interspecific Factor, *Journal of Analysis and computation* vol. 7(2), 105-112, 2011.

## 2012

17. M.H. Rahmani Doust, F.Haghighifar,, M.N. Modoodi, The Lotka-Volterra competition Model , *Proc. Jangjeon Math. Soc.*, 15(3), 259-265, 2012.
18. M.Saraj, M.H. Rahmani Doust, F.Haghighifar, The stability of Gauss Model; Having Harvested factor, *Selcuk J. Appl. Math.* 13(2) , 3-10, 2012.

## 2013

19. M.H. Rahmani Doust, F.Haghighifar, M.Saraj, The Logistic Modeling Having Harvested factor, *Yugoslav Journal of Operational Research*, 23(4), 107-115, 2013.

## 2014

20. M.H. Rahmani Doust, F. Haghighifar, V. Loksha, The Stability of Gauss Model Having Two-Preys and One-Predator, *Proc. Jangjeon Math. Soc*, 17(3), 347-354, 2014.
21. M.H. Rahmani Doust, A. Ghyasi, V. Loksha, An Analysis on Fourier Series Expansion, *IeJETA*, (1-5), 2014.
22. M.H. Rahmani Doust, The Lotka- Volterra Food Chain Model; Theory and Importance, *IeJETA*, (6-13), 2014.
23. M.H. Rahmani Doust, S. Gholizade, An Analysis of The Modified Lotka-Volterra Predator-Prey Equations, *General Mathematics Notes* , 25(2) , 1-5, 2014 .

## 2015

24. M.H. Rahmani Doust, M. Saraj, The Logistics Modeling Population; Having Harvesting Factors, *YUJOR*. 25 (1), 107-115, 2015.
25. M.H. Rahmani Doust, An Analysis On The Lotka-Volterra Food Chain Model: Stability; *Caspian Journal of Mathematical Sciences*, 4(1), 87-94, 2015.
26. M.H. Rahmani Doust, The Efficiency of Harvested Lotka-Volterra Predato- Prey model, *Caspian Journal of Mathematical Sciences*, 5(1), 51-59, 2015.

## 2016

27. M.H. Rahmani Doust, S. Gholizade; Prey- Predator System; Having Stable Orbit; *Caspian Journal of Mathematical Sciences*, 1(1), 21-27, 2016

28. M.H. Rahmani Doust, A. Ghasem Abadi; Permanency and Asymptotic Behavior of the Generalized Lotka-Volterra Food Chain System; *Caspian Journal of Mathematical Sciences*, 5(1), 1-5, 2016.

## 2018

29. M.H. Rahmani Doust, F. MotahariNasab, Existence and Uniqueness of Asymptotic Periodic Solution in the Cyclic Four Species Predator-Prey Model, *Journal of Advanced Mathematical Modeling*, 9(1), 143-160 2018.

## 2019

30. A. Ghasemabadi, M.H. Rahmani Doust, Investigating the dynamics of Lotka-Volterra model with disease in the prey and predator species, *International Journal of Nonlinear Analysis and Applications*, 12(1), 633-647, 2021.

## 2020

31. M.H. Rahmani Doust, M. Shamsabadi, M. Shirazian; Application of Control and Optimal Treatment for Predator- Prey Model, *Iranian Journal of Numerical Analysis and Optimization*, 10(1), 2020.

32. M.H. Rahmani Doust, V. Loksha, A. Ghasemabadi, Analysis of The Picard's Iteration Method and Stability for Ecological Initial Value Problems of Single Species Models with Harvesting Factor, *European Journal Of Pure And Applied Mathematics*, 13(5), 1176-1198, 2020.

## 2021

33. *A Study on The Ecological Initial Value Problems: The exponential and Logistic Growth Rates for Harvested Single Species Models*, Advances in Intelligent Systems and Computing, Springer, 1356, 155-166, , 2021.

[https://doi.org/10.1007/978-981-16-1402-6\\_13](https://doi.org/10.1007/978-981-16-1402-6_13)

## (V) Presented Papers

### 2000

1. M.H. Rahmani Doust, M. Hesarak, System of Predator - Prey Equations Rosenzweig - MacArther, 4<sup>th</sup> Seminar of Differential Equations and Dynamical Systems, and Applications, Ferdowsi University of Mashhad, I R Iran, 4-5 May 2000.
2. M.H. Rahmani Doust, M. Hesarak, Differential Equations and Ecological Models, 4<sup>th</sup> Seminar of Differential Equations and Dynamical Systems, and Applications, Ferdowsi University of Mashhad, I R Iran, 4-5 May 2000.
3. M.H. Rahmani Doust, M. Hesarak, Uniqueness of a Limit Cycle for Predator-Prey Equations of Rosezweig-MacArther, 4<sup>th</sup> Seminar of Differential Equations and Dynamical Systems, and Applications, Ferdowsi University of Mashhad, I R Iran, 4-5 May 2000.

### 2006

4. M.H. Rahmani Doust, R. Rangarajan, Global Analysis of a Lotka- Volterra Predator-Prey Model with Intraspecies Competition, 22<sup>nd</sup> Annual Conference of Ramanujan Mathematical Society, NITK, Mangalore, India, 6-8 June 2006.

### 2007

5. M.H. Rahmani Doust, R. Rangarajan, An Analysis of Lotka- Volterra Three Species Food Chain, 73<sup>rd</sup> Annual Conference of the Indian Mathematical Society, University of Pune, Pune, India, 27-30 December 2007.

## 2008

6. M.N. Modoodi, M.H. Rahmani Doust, Empowered Knowledge and Under Empowered Ethics Needs of Sharing Ethics for Eco-Friendship, Regional Seminar on Recent Trends in Environmental Education, Mysore, India, 23-25 January 2008.
7. M.H. Rahmani Doust, R. Rangarajan, Lotka-Volterra Predator-Prey Model with Prey-interspecies Competition and Predator-intraspecies Coexistence, International Conference on Nonlinear Dynamic and Turbulence, IISc., Bangalore, India, 17-21 July 2008.
8. M.H. Rahmani Doust, R. Rangarajan, M.N. Modoodi, Analysis of a Predator-Prey Model with Intraspecies Coexistence, International Conference on Recent Developments in Nonlinear Dynamics, Bharathidasan University, Tiruchi, India, 13-16 February 2008.
9. M.H. Rahmani Doust, R. Rangarajan, The Lotka- Volterra Model, One Day Seminar on Recent Trends in Mathematics, Dept. of P.G. Studies and Research in Mathematics, KuvempuUniversity, Shimoga, India, 5 May 2008.

## 2009

10. M.H. Rahmani Doust, M. N. Modoodi & A. R. Ghodsi, Logistic Modeling Population Having Harvesting Factor, 5th Asian Mathematical Conference (AMC2009), Putra world Trade Center, Kuala Lumpur, Malaysia, 22-26 June 2009.
11. M.H. Rahmani Doust, M. N. Modoodi, Classification of Non-Linear Systems of ODEs. Multi-Species Interaction, International Conference on Mathematical Sciences, Maltepe University, Istanbul, Turkey, 04-10 August 2009.
12. A. Ghyasi, M.H. Rahmani Doust, An Analysis of Fourier Series Expansion, International Conference on Mathematical Sciences, Maltepe University, Istanbul, Turkey, 04-10 August 2009.
13. M.H. Rahmani Doust, A. M. Bahrami, Approximate Analytic Solution of the Mathematical Model for Bacterial Pattern in a semi solid Medium, 40th Annual I R Iranian Mathematics Conference, Sharif University of Technology, Tehran, I R Iran, 17-20 August 2009.

## 2010

14. M.H. Rahmani Doust, A. M. Bahrami, The Lotka-Volterra Competition Models, 23<sup>rd</sup> International conference of The Jangjeon Mathematical Society, Shahid Chamran University- Jangjeon Mathematical Society(I R Iran-S. Korea), Ahwaz, I R Iran, 8-10 February 2010.
15. M.H. Rahmani Doust, F. Haghighifar, The Study of a System of Harvested Lotka-Volterra Predator-Prey Equations, International Congress in Honor of Professor H. M. Srivastava on his 70<sup>th</sup> Brith Anniversary, Uludag University, Bursa, Turkey, 18-21 August 2010.

## 2011

16. M.H. Rahmani Doust, F. Haghighifar, The Lotka-Volterra Model Having Interspecific Interactions, 24<sup>rd</sup> International conference of The Jangjeon Mathematical Society - Jangjeon Mathematical Society Konya, Turkey, 20-23 July 2011.

## 2013

17. M.H. Rahmani Doust, S. Gholizadeh, An Analysis of the Modified Lotka- Volterra Predator-Prey Model, The 44<sup>th</sup> Annual Iranian Mathematics Conference, Ferdowsi University of Mashhad, Mashhad, I R Iran, 27-30 August 2013.
18. M.H. Rahmani Doust, F. Haghighifar The Stability of Gauss Model; Having Multi Species of Preys and Predators, The 44<sup>th</sup> Annual Iranian Mathematics Conference, Ferdowsi University of Mashhad, Mashhad, I R Iran, 27-30 August 2013.
19. M.H. Rahmani Doust On the Lotka-Volterra Food Chain Models, the Importance and Stability, 26<sup>th</sup> International Conference of the Jangjeon Mathematical Society-S. Korea; Acharya Institute of Graduate Studies Banalore, India, August 01-04, August, 2013.
20. M.H. Rahmani Doust, S. Gholizadeh, The Lotka-Volterra Predator-Prey Equations, The 10<sup>th</sup> Seminar on Differential Equations and Dynamical Systems, Mazaderan university, Babolsar, I R Iran, 6-7 November 2013.

## 2014

21. M.H. Rahmani Doust, F. Mozafari, Analysis of Kolmogorov Model; Coexistence Type, The 45<sup>th</sup> Annual Iranian Mathematics Conference, University of Semnan, Semnan, I R Iran, 26-29 August 2014.
22. M.H. Rahmani Doust, A. GhasemAbadi, The Stability of Lotka-Volterra Food Chain Model, The 45<sup>th</sup> Annual Iranian Mathematics Conference, University of Semnan, Semnan, I R Iran, 26-29 August 2014.
23. M.H. Rahmani Doust, S. Gholizadeh; An Analysis of Kolmogorov Model, Coexistence Type The 11<sup>th</sup> Seminar on Differential Equations and Dynamical Systems, University of Damghan, Damghan, I R Iran, 23-25 June 2014.

## 2015

24. M.H. Rahmani Doust, R. Karimian, The Stability and Bifurcation of Food Chain Model; Holling Type II, 46<sup>th</sup> Annual Iranian Mathematics Conference, Yazd University, Yazd, I R Iran 25-28 Aug 2015.
25. A. Farahmandfard, M.H. Rahmani Doust The stability Predator- Prey Model With Diseases Infection, 46<sup>th</sup> Annual Iranian Mathematics Conference, Yazd University, Yazd, I R Iran, 25-28-Aug 2015.
26. M.H. Rahmani Doust, R. Karimian, The study of stability Lotka-Volterra Competition Model, 12<sup>th</sup> Seminar on Differential Equations and Dynamical Systems, Tabriz university, Tabriz, I R Iran 27-29 May, 2015.
27. M.H. Rahmani Doust, S. Soltani, Optimal Antrivial Treatment strategies of Hepatits B Model with Noncytolytic Loss of Infected Cells, 12<sup>th</sup> Seminar on Differential Equations and Dynamical Systems, Tabriz university, Tabriz, I R Iran 27-29 May, 2015.
28. M.H. Rahmani Doust, S Gholizade, Applications of Systems of differential Equations Predator- Prey Model, 12<sup>th</sup> Seminar on Differential Equations and Dynamical Systems, Tabriz university, Tabriz, I R Iran 27-29 May, 2015.
29. M.H. Rahmani Doust, A. Farahmand, The Stability and Basic Reproduction Number for epidemic Models, 12<sup>th</sup> Seminar on Differential Equations and Dynamical Systems, Tabriz university, Tabriz, I R Iran 27-29 May, 2015.

## 2016

30. M.H. Rahmani Doust, Z. Komeili, Stabilization of Tuberculosis Dynamics: An optimal Control Approach, The 29<sup>th</sup> International Conference of Jangjeon Mathematical Society, Pondicherry University, Puducherry, India, 8-10 August 2016.
31. M.H. Rahmani Doust, R. Shourabi, On The Study of stability and Bifurcation of a Delay ecological Model, The 29<sup>th</sup> International Conference of Jangjeon Mathematical Society, Pondicherry University, Puducherry, India, 8-10 August 2016.
32. M.H. Rahmani Doust, F. Motahari Nasab, The permanency of Cyclic System of Four Species Predator-Prey Equations, The 29<sup>th</sup> International Conference of Jangjeon Mathematical Society, Pondicherry University, Puducherry, India, 8-10 August 2016.
33. M.H. Rahmani doust, F. Motahari Nasab and A. Ghasem Abadi, Existence and Uniqueness of Asymptotically Periodic Solution for Cyclic System of Four Species Predator-Prey Equations, 47<sup>th</sup> Annual Iranian Mathematics Conference, Kharazmi University, Karaj, I R Iran, 28-31 August 2016.

## 2018

34. M.H. Rahmani Doust, A study on The Permanency of Cyclic System of Four Species Predator-Prey Equations Model, The 1<sup>st</sup> International Conference on Boundary Value problem and Application, Tabriz university, Tabriz, I R Iran, 4-5 July 2018.
35. M.H. Rahmani Doust, An Analysis of solution in The Cyclic Multi- Species Predator- Prey Model, 14<sup>th</sup> Seminar on Differential Equations, Dynamical Systems and Applications, Institute for Advanced Studies in Basic Sciences, Zanjan, I R Iran, 17-19 July 2018.
36. M.H. Rahmani Doust, ShamsAbadi, The Construction and Analysis of a Predator- Prey Model with Migratory Effect, 49<sup>th</sup> Annual Iranian Mathematics Conference, I R Iran University of Science and Technology, Tehran, I R Iran, 23-28 August 2018.

## 2019

37. E. Ameli, **M.H. Rahmani Doust**, E. Anjidani, Picard Iteration Method for Ecological Models; Growth Rate, 1<sup>st</sup> Annual National Conference on Biomathematics, University of Neyshabur, Neyshabur, I R Iran, 12-13 March 2019.
38. M.Shamsabadi, **M.H. Rahmani Doust**, M.Shirazian, The role of disease in the prey-predator model, , 1<sup>st</sup> Annual National Conference on Biomathematics, University of Neyshabur, Neyshabur,I R Iran, 12-13 March 2019.
39. S. Amiri, **M.H. Rahmani Doust**, Fractional Differential Equations, 1<sup>st</sup> Annual National Conference on Biomathematics, University of Neyshabur, Neyshabur,I R Iran, 12-13 March 2019.
40. M.Shamsabadi, **M.H. Rahmani Doust**, M.Shirazian, Stability analysis of prey- predator model with infection, migration and vaccination in prey, 1<sup>st</sup> Annual National Conference on Biomathematics, University of Neyshabur, Neyshabur, I R Iran, 12-13 March 2019.
41. **M.H. Rahmani Doust**, M. Shirazian, M. Shamsabadi, A Study on Prey-Predator Eco-Epidemiological Model, The 50<sup>th</sup> Annual Iranian Mathematics Conference, Shiraz University, I R Iran 26–29 August 2019.
42. **M.H. Rahmani Doust**, M. Shamsabadi, M. Shirazian, Application of Control and Optimal Treatment for Predator- Prey Model, National seminar on Control and optimization, hakim sabzevari University, I R Iran,13-14 Nov. 2019.

## 2020

43. **M.H. Rahmani Doust**, A. Ghasem Abadi, Analysis of The Predator- Prey Model Having Infected Diseases International Conference on Advances in Mathematics and Computing (ICAMC 2020), Berhampur University, India, 7-8- Feb 2020.
44. **M.H. Rahmani Doust**, M. Shirazian, M. Shamsabadi, Disease Role in a Prey-Predator Eco-Epidemiological Model, 3rd International Conference on Advanced Mathematical Analysis and its Applications (ICAMAA 2020), VSS University of Technology, India, 4-5 Feb 2020.
45. **M.H. Rahmani Doust**, A. Ghasem Abadi, M. Shamsabadi, A Nonlinear Mathematical Modeling and Application to Criminal Activity, International Conference on Recent Trends in Engineering and Science, Jagadambha College of Engineering & Technology, Maharashtra, India, 9- 10 Aug. 2020 (ICRTES 2020).
46. **M.H. Rahmani Doust**, A. Ghasem Abadi, M. Shamsabadi, Delayed Models of Single Species and Applications in Ecology, Biology and Epidemiology International Conference on Recent Trends in Engineering and Science, Jagadambha College of Engineering & Technology, Maharashtra, India, 9- 10 Aug. 2020 (ICRTES 2020).
47. **M.H. Rahmani Doust**, A. Ghasem Abadi, Hopf Bifurcation in A Generalized Food Chain Model with Harvested On Prey, Predator or Top Predator Population, International Conference on Recent Trends in Engineering and Science, Jagadambha College of Engineering & Technology, Maharashtra, India, 9- 10 Aug. 2020 (ICRTES 2020).
48. **M.H. Rahmani Doust**, A. Ghasem Abadi, M. Shamsabadi, An Analysis of Criminal Activity and behavior with help of Mathematical Modeling, Second Annual National Conference on Biomathematics, University of Tabriz, Tabriz, June 2-3 2020.
49. **M.H. Rahmani Doust**, A. Ghasem Abadi, A Study On The Ecological Initial Value Problems: The Exponential And Logistic Growth Rates Of Single Species Models Having Harvested Factor, 15<sup>th</sup> Seminar on Differential Equations, Dynamical Systems and Applications, University of Guilan, Rasht, 24-25 June 2020.



50. M.H. Rahmani Doust, A. Ghasem Abadi, M. Saraj, Modeling and Nontrivial Solutions Analysis of Predator-Prey System with Infection, 26 the International Conference of International Academy of Physical Sciences (Coniaps-Xxvi) On Convergence of Computing, Statistics and Operation Research, VSK University, Ballary, India, December 18-20 December 2020.

51. M.H. Rahmani Doust, A. Ghasem Abadi, M. Saraj, Robust approach to multi objective linear fractional programming problem under uncertainly, 26 the International Conference of International Academy of Physical Sciences (Coniaps-Xxvi) On Convergence of Computing, Statistics and Operation Research, VSK University, Ballary, India, 18-20 December 2020.

## 2021

52. M.H. Rahmani Doust, A. Ghasem Abadi, Analysis of Predator-Prey System with Infection, The 51th Annual Iranian Mathematics Conference, Kashan University, Iran 16-19 February 2021.

53. M.H. Rahmani Doust, A. Ghasem Abadi, A Study on The Ecological Initial Value Problems: The Exponential and Logistic Growth Rates of Single Species Models Having Harvested Factor, 15<sup>th</sup> Seminar on Differential Equations, Dynamical Systems and Applications, University of Guilan, Rasht, Iran, 6-8 March 2021.

## (VI) University Lecture Series

1. Mathematics and Ecological Modelling, Research Convention, University of Ilam, Ilam, I R Iran, 2001.
2. Predator-Prey Models, Research Convention, University of Ilam, Ilam, I R Iran, 2002.
3. Mathematical Biology, Research Convention, University of Ilam, Ilam, I R Iran, 2004.
4. Differential Equations and Ecology, Research Convention, University of Neyshabur, I R Iran, 2014.
5. Ecological Models and Solutions Bifurcation, Research Convention, University of Neyshabur, I R Iran, 2015.
6. Differential Equations and Chaos, Research Convention, University of Neyshabur, I R Iran, 2016.

## (VII) Workshops

1. The First Workshop on **Dynamical System and Applications**, Ferdowsi University of Mashhad, I R Iran, 2002.
2. Pre-Conference Workshop of **ICDM**, university of Mysore, Mysore, India, 2008.
3. Instructional workshop on **Differential Geometry**, university of Mysore, Mysore, India, 2008.
4. Workshop on **Mathematical Biology**, Mazandaran University, Babolsar, I R Iran, 2013.

## (VIII) Students and Thesis

### VIII -A; Supervisor of M.Sc. Students

1. An Analysis of Harvested Lotka-volterra Predator- Prey Equations, University of Ilam , F. Haghighifar 2011.
2. An Analysis of System of Three Species Food Chain Equations, University of Ilam, S. Gholizade, 2012.
3. An Analysis of Systems of Kolmogorov Equations, University of Ilam, F. Mozafari 2012.
4. Food Web; Structure and Stability, University of Neyshabur, A. Farahmandfard 2014.
5. The Study of Chaos and Stability in Food Chain, University of Neyshabur, R. Karimian 2014.
6. Global Analysis of Ecological Kolmogorov Models, University of Neyshabur, S. Soltani 2014.
7. The Study on Fixed Point Theorems; University of Neyshabur, S. Yahghoubi 2016.
8. The Study of Hopf Bifurcation in a Delayed System of Predator-Prey Equations; University of Neyshabur, R. Shourabi 2016.



9. Existence of Periodic Solution in Competition Dynamic and Predator-Prey Systems, University of Neyshabur, F. Motahari 2016.
10. The Study of Limit Cycle in Predator- Prey Model; University of Neyshabur, N. Ali Mirzaee 2016.
11. Bifurcation Analysis and Optimal Treatment of a Tuberculosis Model; University of Neyshabur, Z. Komeili, 2017.
12. Stability and Hoph Bifurcation in Gauss Model; Having Two Predators and One Prey, University of Neyshabur, A. Samghani, 2018.
13. Bifurcation and Some Applications in Electronic System, University of Neshabur, H.R. Borji, 2018.
14. Stability and Hoph Bifurcation For a predator-Prey Model, University of Neyshabur, H.Sooifi, 2018.
15. Analysis of Stability for a Predator-Prey Model with Diseases, Migration and Vaccination, University of Neyshabur, F. Shamsabadi, 2019.
16. Optimized Harvest and Application for Predator-Prey Gauss Model, University of Neyshabur, F. Mirzaee, 2019.
17. Fixed Point Theorem in b-Metric Space with Application to Differential Equations, University of Neyshabur, E. Ameli, 2019.
18. Analysis of Stability and Hoph Bifurcation in Predator-Prey Gauss Model; Holling Type III, University of Neyshabur, S. Amiri, 2019.
19. Estimation of Final Boundary and Chaos Control of Ordinary Differential Equations, University of Neyshabur, M.R. Daneshfar, 2020.

#### **VIII -B; Adviser of M.Sc. Students**

1. The Zero-Divisor Graph Associated to a Partially Ordered Set; University of Neyshabur, H. Amirshahi; 2015.
2. The Study of Bifurcation in Food Chain Modes, University of Neyshabur, E. Miriskandari, 2015.
3. A Numerical Approach Based on Septic B-Spline and Crank-Nicolson Finite Difference Methods for One-Dimensional Cahn-Hilliard Equation; University of Neyshabur, F. Borji, 2015.
4. Optimal Control Design for Cancer Treatment Using Iterative Approximations; University of Neyshabur, M. Pakdin, 2016.
5. Jensens Inequality for Operators Without Operator Convexity; University of Neyshabur, M.R. I R Irankhah, 2016.
6. The Unit Graph Associated to Commutative Rings; University of Neyshabur, S. Ghahreman, 2018.
7. Analysis of Stability and Optimal Control for a Prey- Predator Model, University of Neyshabur, F. Lotfi, 2019

### **(IX) Teaching Domains Comprise**

#### **IX -A; M.Sc. Courses**

1. Real Analysis;
2. Theory of Ordinary Differential Equations;
3. Partial Differential Equations;
4. Special Topics in Mathematical Analysis.

#### **IX –B; B. Sc. Courses**

1. Calculus (I), (II), (III);
2. The Fundamental of Mathematical Analysis;

3. The Fundamental of Mathematical sciences;
4. The Fundamental of Matrices;
5. Mathematical Philosophy;
6. Mathematical History;
7. Algebra;
8. Real Algebra;
9. Mathematical Analysis (I), (II), (III);
10. Ordinary Differential Equations;
11. Partial Differential Equations;
12. Specialized Foreign Language for Mathematics;
13. Complex Functions.

### **(X) Awards, Honors, Grants**

1. Winner Scholarship in M.Sc. Studies, Ministry of Culture and Higher Education, Islamic Republic of I R Iran, 1995.
2. Ranked The First M.Sc. Graduated of Pure Mathematics, University of Tarbiat Modares, Islamic Republic of I R Iran, 1998.
3. Awarded as The Distinguished Researcher of University, University of Ilam, Islamic Republic of I R Iran, 2004.
4. Winner Scholarship in Ph.D. Studies, Ministry of Science, Research and Technology, Islamic Republic of I R Iran, 2004.
5. Awarded as a Distinguished Ph. D. Student, University of Mysore, Embassy of I R Iran in New Delhi, India, 2006.
6. Awarded as a Distinguished Ph. D. Student, University of Mysore, Embassy of I R Iran in New Delhi, India, 2007.
7. Awarded as The Distinguished, General Director of Surveillance and Evaluation of Ministry; Ministry of Science, Research and Technology, I R Iran, 2009.
8. Awarded as The Distinguished, General Director of Educational Affairs of Ministry; Ministry of Science, Research and Technology, I R Iran, 2010.
9. Awarded as The Distinguished, Cultural Vice-Chancellor of Minister; Ministry of Science, Research and Technology, I R Iran, 2015.

### **(XI) Professional Membership**

#### **XI-A; Society Membership**

1. Life Membership of the Society for Special Functions and Their Applications (SSFA), India.
2. Membership of The Indian Mathematical Society, India, 2007-2008.
3. Membership of The I R Iranian Mathematical Society, 2000 up to now.
4. Membership of Editorial Board for Journal of Analysis and Computation (JAC) 2018 up to now.

#### **XI-B; Reviewer Board of Journals**

1. Caspian Journal of Mathematical Sciences,
2. Punjab University Journal of Mathematics,
3. Science Journals Publications,
4. TWMS J. App. Eng. Math.,
5. Journal of Advanced Mathematical Modeling,
6. Advances in Difference Equations,
7. Journal of Ultra Scientist of Physical Sciences,

8. Journal of Advanced Mathematical Modeling (JAMM),
9. International journal of mathematical Biology(IJB),
10. Control and Optimization in Applied Mathematics (COAM),
11. Pakistan Journal of Statistics and Operation Research (PJSOR),
12. Mathematical Researches,
13. International Journal of Interactive Multimedia and Artificial Intelligence (IJIMAI),
14. Springer Publishing,

#### **XI-C; Reviewer Board of Conferences and Seminars**

1. 10<sup>th</sup> Seminar on Differential Equations and Dynamical Systems, 2013.
2. 49<sup>th</sup> Annual I R Iranian Mathematics Conference, 2018.
3. 1<sup>st</sup> Annual National Conference on Biomathematics, University of Neyshabur, 2019.
4. 2<sup>nd</sup> Annual National Conference on Biomathematics, University of Tabriz, 2020.
5. 3<sup>rd</sup> Annual National Conference on Biomathematics, University of Damghan, 2021.
6. 3<sup>rd</sup> Conference on Dynamical Systems and Geometry Theory, Hakim Sabzevari University, 2021.

#### **XI-D; Advisory Committee Member**

- 1- International Conference in Recent Trends on Applied and computational Mathematics, Reva University, India, (ICRTACM)2020.
- 2- International Conference on Advances in Mathematics and Computing, VSS University of Technology, India, (ICAMA2020).
- 3- International Conference on Advanced Mathematical Analysis and its Applications, Berhampur University, India, (ICAMAA 2020).
- 4- Executive Committee member, 1<sup>st</sup> Annual National Conference on Biomathematics, University of Neyshabur, 2019.
- 5- Academic Committee member, 1<sup>st</sup> Annual National Conference on Biomathematics, University of Neyshabur, 2019.
- 6- Executive Committee member, 2<sup>nd</sup> Annual National Conference on Biomathematics, University of Tabriz, 2020.
- 7- Academic Committee member, 3<sup>rd</sup> Annual National Conference on Biomathematics, University of Damghan, 2021.

#### **XII-E; Secretary-Organizing Committee**

1. First Khayyam National Annual Festival, University of Neyshabur, I R Iran, 2018.
2. Workshop of Surveillance and Evaluation for Higher Education, Ilam University, I R Iran, 2009.

#### **XIV-F; International Evaluator for Ph.D. Thesis:**

1. Visvesvaraya Technological University, India (3);
2. Bharathiar University, India (4);
3. Sri Siddhartha Academy of Higher Education, India (2).

#### **XV- G; Evaluator for M.Sc. Thesis**

1. Ilam university (8),
2. Razi University (4),
3. Islamic Azad university (30),
4. University of Neyshabur (35).

## **(XII) Career History, Working Backgrounds**

1. Permanent University Faculty Member, *University of Ilam*, 1998- 2012.
2. Permanent University Faculty Member, *University of Ilam*, 2010- 2012.
3. The Manager of Surveillance and Evaluation of University, *University of Ilam*, 2007-2010.
4. The Headmaster of Educational Affairs of University, *University of Ilam*
5. Professional Commission Member of Survey Board, *Razi University, Kermanshah*, 2008-2012
6. Board Member of Surveillance and Evaluation of Higher Education of Province, Issued by *Ministry of science, Research And Technology*, 2009-2012
7. Board Member of Provision(preparation) of Higher Education of Province, Issued by *Ministry of science, Research And Technology*, 2009-2012.
8. Board Member of Provision(preparation) of Higher Education of Province, Issued by *Ministry of science, Research And Technology*, 2017-2021.
9. Vice-Chancellor of administrative and Financial of University, *University of Neyshabur*, 2012-2016

**(XIII) Computer Software Skills:** LATEX; MS Word; Matlab

**(XIV) Language Skills:** *Persian; English*

**(XV) Avocations:** Mountaineering; Cycling; Gardening.